

Soil Type	Est. Pore Space
Clay	15%
Sandy Clay	12%
Silt	16%
Loess	25%
Fine Sand	16%
Med. Sand	25%
Coarse Sand	26%
Gravelly Sand	26%
Fine Gravel	26%
Med. Gravel	25%
Coarse Gravel	18%
Compacted Caliche Pad	16%
Loosely Compacted Caliche Pad	20%

Location:

Rule of Thumb

7.7 = Total Estimated Barrels of Oil in Soil

To Calculate The Oil Content of Saturated Soil

Average Pore Space Between Soil Grains Ranges From A Low of 15% To A High of 26%. Pure Sand Being 26%.

12% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

15 = Width in Feet

4 = Length in Feet

0 = Depth in Inches

6 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

323.14 = Gallons of Oil In Soil

7.7 = Barrels of Oil In Soil

\*\*\*If different soil types are impacted (I.E. Caliche Pad and Sandy Clay Pasture Area), additional calculation boxes are provided below. If not, please make sure the dimensions are zeroed out before finalizing.\*\*\*

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

= Width in Feet

= Length in Feet

= Depth in Inches

0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

0.00 = Gallons of Oil In Soil

0.0 = Barrels of Oil In Soil

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

= Width in Feet

= Length in Feet

= Depth in Inches

0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

0.00 = Gallons of Oil In Soil

0.0 = Barrels of Oil In Soil



# **Site Characterization, Remediation, and Closure Report**

**Red Hills Station Release  
Lea County, New Mexico  
Incident No. nAPP2329632113**

Plains All American Pipeline, L.P.

April 11, 2025

→ **The Power of Commitment**

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# 1. Introduction

GHD Services Inc. (GHD), on behalf of Plains All American (Plains), submits this *Site Characterization, Remediation, and Closure Report* to the State of New Mexico Energy, Minerals and Resource Oil Conservation Division (NMOCD) District I Office. This report provides documentation of Site characterization, assessment activities, and remediation activities in response to the release that occurred at the Plains Red Hills Station (Site). The Site is located in Unit Letter N Section 3 of Township 26 South and Range 32 East in Lea County, New Mexico. The Global Positioning System (GPS) coordinates for the release Site are 32.065494 ° N and 103.666772 ° W. The property owner where the release occurred is under the management of the New Mexico Bureau of Land Management (BLM). **Figure 1** depicts the Site location. The Site and other details are depicted on **Figure 2**.

# 2. Background and Regulatory Notification Information

The release is subject to the jurisdiction of the NMOCD District I Office in Hobbs, New Mexico. On October 23, 2023, Notice was given to the NMOCD via an electronic Notification of Release (NOR) submitted to the on-Site portal. A C-141 Release Notification for this release was submitted to the NMOCD on October 23, 2023. Plains estimated approximately 7.7 barrels (bbls) of crude oil were released with no recovery during initial response actions. The NMOCD subsequently assigned Incident Number nAPP2329632113 to the release. The Initial release notification form C-141 is included as Appendix A.

# 3. Site Characterization and Closure Criteria

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (NMAC 19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are summarized below.

As no groundwater data was available within one-half mile of the Site, a depth to water (DTW) investigation boring was installed at the Site. On March 15, 2024, the boring was advanced to approximately 105 feet below ground surface (bgs) and is approximately 82 feet west of the release located at the following GPS coordinates, 32.065442 ° N and 103.667056 ° W. The boring was left open for 72 hours and a water level meter was utilized to determine the presence or absence of groundwater; no groundwater was detected in the boring. The boring was later plugged and abandoned by a licensed New Mexico water well driller.

The Site is located within an area of medium karst potential. The nearest fresh water well for livestock watering purposes and an occupied residence is located approximately 3.1 miles west of the Site. Based on information provided by the National Wetland Inventory (NWI) database, a riverine is located approximately 0.73 miles east of the Site.

No other receptors (i.e. water wells, playas, wetlands, waterways, lakebeds, or ordinance boundaries) were located within each regulatory specified distance and/or boundary from the Site. Based on national flood hazard data provided by the Federal Emergency Management Agency (FEMA), the Site is not located in a mapped floodplain. Based upon the State of New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) data, the Site is not

overlying a subsurface mine. Documentation of the Site characterization and receptor review are included as Appendix B. Based on the results of the Site characterization, the closure criteria are listed below:

**Table 3.1 General Site Characterization and Groundwater Information**

Site Characterization	Average Groundwater Depth (ft)
Medium Karst Potential	>100 feet bgs

**Table 3.2 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)**

Regulatory Standard	Benzene (mg/kg)	BTEX (mg/kg)	TPH (GRO+DRO) (mg/kg)	TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	10	50		100	600
Notes: = not defined					

## 4. Excavation, Confirmation Sampling, and Waste Management

From October 26, 2023 to November 3, 2023, GHD and Standard Safety and Supply (SS) mobilized to the Site to excavate the impacted area associated with the release. Excavation depths ranged from approximately 4 to 9 feet bgs. On November 3, 2023, GHD collected six confirmation soil samples from the excavation floor (BS-1 through BS-6) and eight confirmation samples from the sidewalls (RS-1 and SW-1 through SW-7). Composite confirmation samples represented areas no greater than 200 square feet. Samples were placed in laboratory-provided containers, which were immediately labelled, sealed, and stored/transported in a cooler containing ice to Permian Basin Environmental Lab (PBE) in Midland, Texas. The samples were submitted to PBE for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) by Environmental Protection Agency (EPA) SW846 Method 8021B, total petroleum hydrocarbons (TPH) by EPA SW846 Method 8015B Modified, and chloride by EPA Method 300.0.

Analytical results indicated fourteen of the samples (BS-1 through BS-6, RS-1, and SW-1 through SW-7) exhibited TPH concentrations above NMAC Table I Closure Criteria. Additionally, samples (SW-3 through SW-7 and BS-2 through BS-6) had documented total BTEX concentrations above NMAC Table I Closure Criteria. Analytical results are included in **Table 1** and in the Laboratory Analytical Reports included as **Appendix D**. **Figure 2** depicts the sample locations.

Excavated soil was stockpiled on a 40 mL plastic sheet liner on-Site, pending characterization for disposal. It was estimated that approximately 380 cubic yards (cy) of soil was excavated and stockpiled at the Site. A composite sample was collected for waste characterization prior to disposal at a NMOCD approved disposal facility.

The excavation was backfilled with 380 cy of non-impacted caliche obtained from off-Site sources.

### 4.1 Waste Characterization

Waste generated at this Site is classified as non-exempt and is subject to New Mexico Hazardous Waste Management Regulations in Title 20 NMAC, Chapter 4, Part 1, Subpart 300 (20.4.1.300). On December 12, 2023, a composite waste characterization sample (WC-121223-12626654-CS-1) was collected from the stockpiled soil. The waste characterization sample was analyzed for concentrations of Toxicity Characteristics Leaching Procedure

(TCLP) RCRA 8 Metals, Reactivity, Corrosivity, and Ignitability (RCI), TPH, Naturally Occurring Radioactive Material (N.O.R.M.), Chlorides, and Paint Filter testing. Based on the analytical results, the sample did not exhibit hazardous characteristics. From January 30 to February 1, 2024, the stockpiled soil was transported off-Site to a NMOCD approved facility, Lea Land, LLC located in Carlsbad, New Mexico (Permit No: NM-1-0035-New Mexico). Waste manifests are not included in this report but can be made available upon request.

## 5. Delineation Sampling

Due to safety concerns associated with the proximity of the excavation to above ground and buried active facility piping and equipment, activities were ceased. Therefore, soil borings were advanced at the Site in order to delineate the release area both vertically and horizontally. Additionally, a depth-to-groundwater boring was completed to 105 ft bgs west of the SB-3B location. Field observations indicated no evidence of impacted soil in that area.

On March 27, 2024, soil borings were installed in all cardinal directions surrounding the excavation, as well as one soil boring (SB-1) near the release point within the excavated area to an approximate depth of 70 feet bgs. Samples were collected in continuous 2 feet intervals up to 20 feet bgs and 5 feet intervals from 20 ft to 70 feet bgs. SB-3 was advanced to 20 feet bgs with samples being collected in 2 feet intervals. The samples were field screened for volatile organic compounds (VOCs) using a photoionization device (PID). Based on the results of the field screening of SB-1 and SB-3, borings were stepped out from their initial proposed locations 10 to 20 feet in each respective cardinal direction. SB-2A, SB-3A, and SB-5A were advanced to a total depth of approximately 20 feet bgs with samples being collected in 2 feet intervals. SB-4A was only advanced to 6 feet bgs via hand auger due to proximity to a buried pipeline. A total of 47 soil samples were collected and placed in laboratory-provided containers, which were immediately labelled, sealed, and stored/transported in a cooler containing ice to PBE in Midland, Texas. The soil samples were submitted to PBE for analysis of BTEX by EPA SW846 Method 8021B and TPH by EPA SW846 Method 8015B Modified.

Analytical results indicated twenty eight of the samples (SB-1(60'), SB-1(65'), SB-1(70'), SB-2A(2'), SB-2A(4'), SB-2A(6'), SB-2A(8'), SB-2A(12'), SB-2A(14'), SB-2A(16'), SB-2A(18'), SB-2A(20'), SB-3A(2'), SB-3A(6'), SB-3A(8'), SB-3A(10'), SB-3A(12'), SB-3A(18'), SB-3A(20'), SB-5A(2'), SB-5A(4'), SB-5A(6'), SB-5A(8'), SB-5A(10'), SB-5A(12'), SB-5A(14'), SB-5A(16'), and SB-5A(20')) exhibited benzene, BTEX, and TPH below NMAC Table I Closure Criteria.

Analytical results indicated 18 of the samples (SB-1(10'), SB-1(12'), SB-1(14'), SB-1(16'), SB-1(18'), SB-1(20'), SB-1(25'), SB-1(30'), SB-1(35'), SB-1(40'), SB-1(45'), SB-1(50'), SB-1(55'), SB-2A(10'), SB-3A(4'), SB-3A(14'), SB-3A(16'), and SB-5A(18')) exhibited TPH concentrations above NMAC Table I Closure Criteria.

Analytical results are included in **Table 1**, soil boring logs are included as **Appendix C**, and the Laboratory Analytical Reports are included as **Appendix D**. **Figure 2** depicts the soil boring locations in relation to the Site boundaries.

## 6. nAPP2329632113 Deferral Request

Site characterization, soil delineation, and remediation activities for Incident nAPP2324043455 have been performed in accordance with applicable NMOCD guidance and regulations. GHD, on behalf of Plains, requests deferral of the remediation of TPH impacted soil in areas that are not accessible due to active facility piping and infrastructure. The requested deferment area is represented by BS-1 through BS-6, SW-1 through SW-7, RS-1, and SB-1. Based upon supporting documentation provided in this report, GHD, on behalf of Plains, respectfully requests deferral of the identified area of remaining exceedances until the time of abandonment of the facility.

## 7. Summary of Activities and Conclusions

The following summary is the information presented in this report:

- Remediation activities including the excavation of impacted soil.
- Impacted soil was excavated and stockpiled on-Site and characterized for disposal. Approximately 380 cy of soil was transported from the Site to the Lea Land Landfill in Carlsbad, New Mexico.
- Due to safety concerns, the release area was backfilled utilizing clean purchased fill material. Subsequently, soil borings were advanced at the Site to achieve vertical and horizontal delineation for a deferment request.

### 7.1 Scope and Limitations

*This report has been prepared by GHD for Plains All American Pipeline, L.P. and may only be used and relied on by Plains All American Pipeline, L.P. for the purpose agreed between GHD and Plains All American Pipeline, L.P..*

*GHD otherwise disclaims responsibility to any person other than Plains All American Pipeline, L.P. arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.*

*The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.*

*The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.*

*The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.*

Should you have any questions or require additional information regarding this submittal, please don't hesitate to contact the undersigned.

  
Kayla Taylor  
Project Manager

  
J.T. Murrey  
Project Director

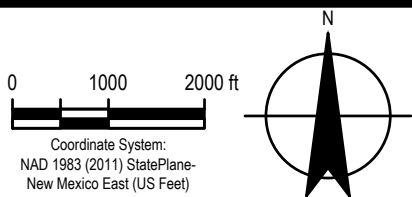
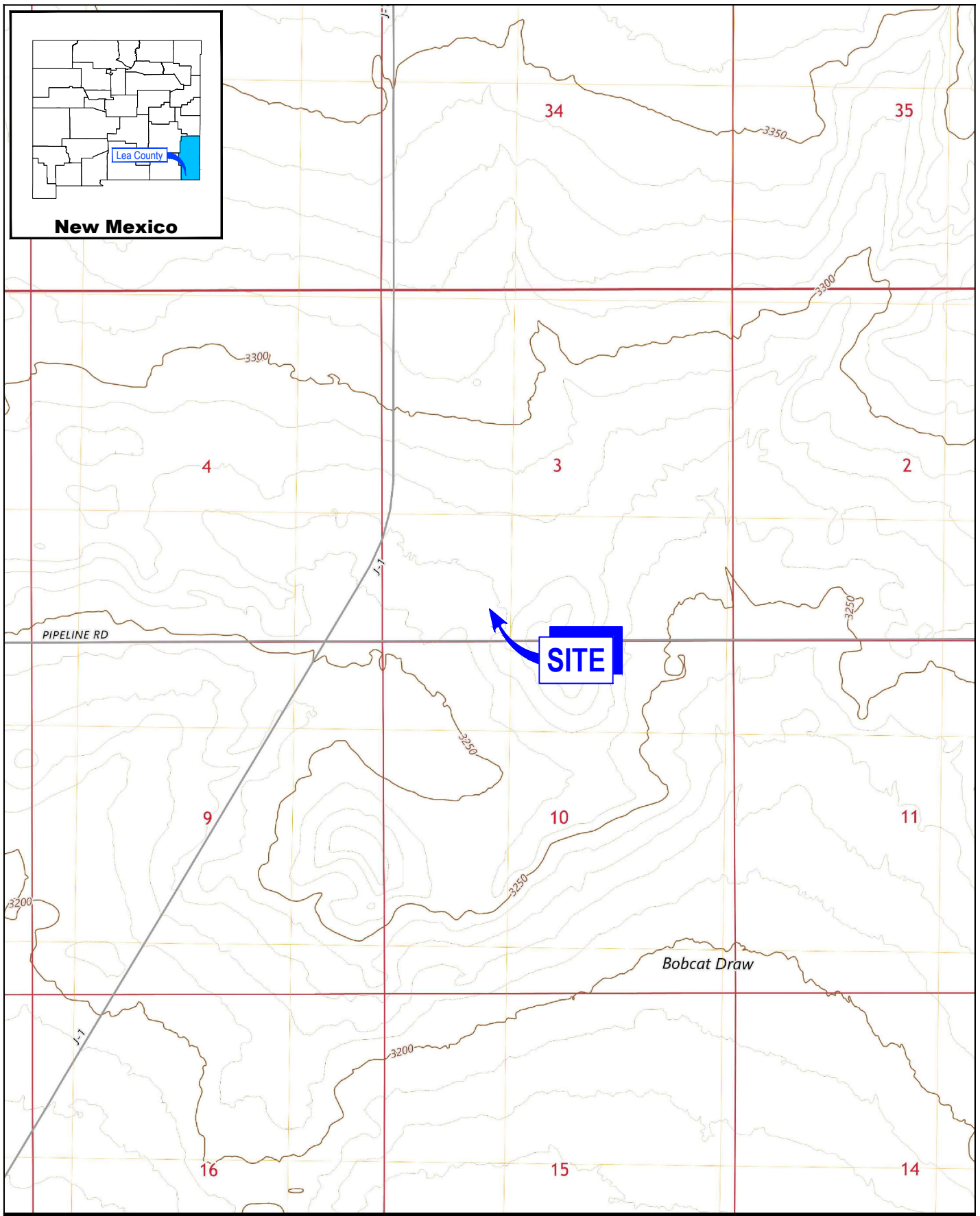
**Summary of Soil Analytical Results**  
**Plains All American Pipeline, L.P.**  
**Red Hills Station Release**  
**nAPP2329632113**  
**Lea County, New Mexico**

Sample Location	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (GRO + DRO + MRO)	Chloride (mg/kg)
NMAC 19.15.29.12 Table 1 Closure Criteria			10	50	GRO + DRO + MRO combined = 100			100	600
Confirmation Samples									
RS-1	11/3/2023	0-9	0.00987	0.423	97.5	394	60.0	551	16.8
SW-1	11/3/2023	0-4	0.00544	1.45	73.6	163	27.6	264	34.6
SW-2	11/3/2023	0-4	0.0180	17.8	1,050	2,150	330	3,530	51.6
SW-3	11/3/2023	4-9	0.117	56.2	2,990	9,360	1,450	13,800	66.9
SW-4	11/3/2023	4-9	3.34	176	5,270	9,480	1,520	16,300	61.2
SW-5	11/3/2023	0-4	1.70	111	3,530	4,940	1,010	9,480	60.5
SW-6	11/3/2023	0-9	1.54	148	4,920	11,800	2,090	18,800	126
SW-7	11/3/2023	4-9	2.67	80.2	4,790	27,200	4,530	36,500	161
BS-1	11/3/2023	4	ND	25.7	1,040	2,950	479	4,470	32.2
BS-2	11/3/2023	4	0.607	106	3,790	7,060	1,250	12,100	43.1
BS-3	11/3/2023	4	10.2	201	7,730	9,290	1,470	18,500	52.2
BS-4	11/3/2023	9	2.76	198	7,950	11,000	1,790	20,800	41.0
BS-5	11/3/2023	9	1.50	155	6,940	10,500	1,750	19,200	44.7
BS-6	11/3/2023	9	5.01	90.7	749	1,260	213	2,220	52.0
Delineation Samples									
SB-1 (10')	3/27/2024	10	--	--	328	2,050	283	2,661	--
SB-1 (12')	3/27/2024	12	--	--	950	3,080	433	4,463	--
SB-1 (14')	3/27/2024	14	--	--	165	1,410	220	1,795	--
SB-1 (16')	3/27/2024	16	--	--	615	2,990	412	4,017	--
SB-1 (18')	3/27/2024	18	--	--	160	1,410	212	1,782	--
SB-1 (20')	3/27/2024	20	ND	0.0775	139	1,360	188	1,687	52.2
SB-1 (25')	3/27/2024	25	--	--	412	2,810	380	3,602	--
SB-1 (30')	3/27/2024	30	ND	1.13	562	3,020	412	3,994	59.0
SB-1 (35')	3/27/2024	35	--	--	153	1,580	225	1,958	--
SB-1 (40')	3/27/2024	40	ND	0.00264	ND	345	73.4	418	46.2
SB-1 (45')	3/27/2024	45	--	--	33.6	142	ND	176	--
SB-1 (50')	3/27/2024	50	ND	ND	28.7	117	ND	146	57.1
SB-1 (55')	3/27/2024	55	--	--	28.3	107	ND	135	--
SB-1 (60')	3/27/2024	60	ND	ND	30.0	48.4	ND	78.4	63.4
SB-1 (65')	3/27/2024	65	--	--	32.2	32.9	ND	32.2	--
SB-1 (70')	3/27/2024	70	ND	ND	27.4	ND	ND	27.4	3.83
SB-2A (2')	3/27/2024	2	--	--	31.1	ND	ND	31.1	--
SB-2A (4')	3/27/2024	4	--	--	33.3	ND	ND	33.3	--
SB-2A (6')	3/27/2024	6	--	--	32.9	ND	ND	32.9	--
SB-2A (8')	3/27/2024	8	--	--	37.9	ND	ND	37.9	--
SB-2A (10')	3/27/2024	10	ND	ND	35.3	834	357	1,226	67.7
SB-2A (12')	3/27/2024	12	--	--	50.3	37.5	ND	87.8	--
SB-2A (14')	3/27/2024	14	--	--	30.8	51.7	ND	82.5	--
SB-2A (16')	3/27/2024	16	--	--	31.9	32.2	ND	64.1	--
SB-2A (18')	3/27/2024	18	--	--	36.6	57.6	ND	94.2	--
SB-2A (20')	3/27/2024	20	--	--	35.0	ND	ND	35.0	88.3
SB-3A (2')	3/27/2024	2	--	--	31.4	39.4	ND	70.8	--
SB-3A (4')	3/27/2024	4	--	--	37.2	136	62.1	235	--
SB-3A (6')	3/27/2024	6	ND	ND	32.7	ND	ND	32.7	35.8
SB-3A (8')	3/27/2024	8	--	--	33.1	34.1	ND	67.2	--
SB-3A (10')	3/27/2024	10	--	--	29.6	ND	ND	29.6	--
SB-3A (12')	3/27/2024	12	--	--	34.6	35.7	ND	70.3	--
SB-3A (14')	3/27/2024	14	--	--	308	4,900	2,120	7,328	--
SB-3A (16')	3/27/2024	16	--	--	28.9	110	57.8	197	--
SB-3A (18')	3/27/2024	18	--	--	31.1	ND	ND	31.1	--
SB-3A (20')	3/27/2024	20	ND	ND	38.4	41.8	ND	80.2	96.6
SB-4A (6')	3/28/2024	6	ND	ND	36.3	ND	ND	36.3	30.5
SB-5A (2')	3/27/2024	2	--	--	35.5	ND	ND	35.5	--
SB-5A (4')	3/27/2024	4	--	--	37.0	ND	ND	37.0	--
SB-5A (6')	3/27/2024	6	--	--	48.2	ND	ND	48.2	--
SB-5A (8')	3/27/2024	8	--	--	32.8	40.0	ND	72.8	--
SB-5A (10')	3/27/2024	10	--	--	36.2	ND	ND	36.2	--
SB-5A (12')	3/27/2024	12	ND	ND	33.8	ND	ND	33.8	122
SB-5A (14')	3/27/2024	14	--	--	31.4	ND	ND	31.4	--
SB-5A (16')	3/27/2024	16	--	--	38.1	29.5	ND	67.6	--
SB-5A (18')	3/27/2024	18	--	--	28.7	389	190	608	--
SB-5A (20')	3/27/2024	20	ND	ND	30.0	ND	ND	30.0	82.0

**Notes:**

- Concentrations reported in milligrams per kilogram (mg/kg)
- NMAC = New Mexico Administrative Code
- Benzene, toluene, ethylbenzene, total xylenes (BTEX) analyses by EPA Method SW-846 8021B.
- TPH analyses by EPA Method SW-846 8015 Mod.
- GRO/DRO/MRO = Gasoline Range Organics/Diesel Range Organics/Motor Oil Range Organics
- Yellow shaded values indicate concentration exceeds the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
- ND - Not Detected
- = Not analyzed



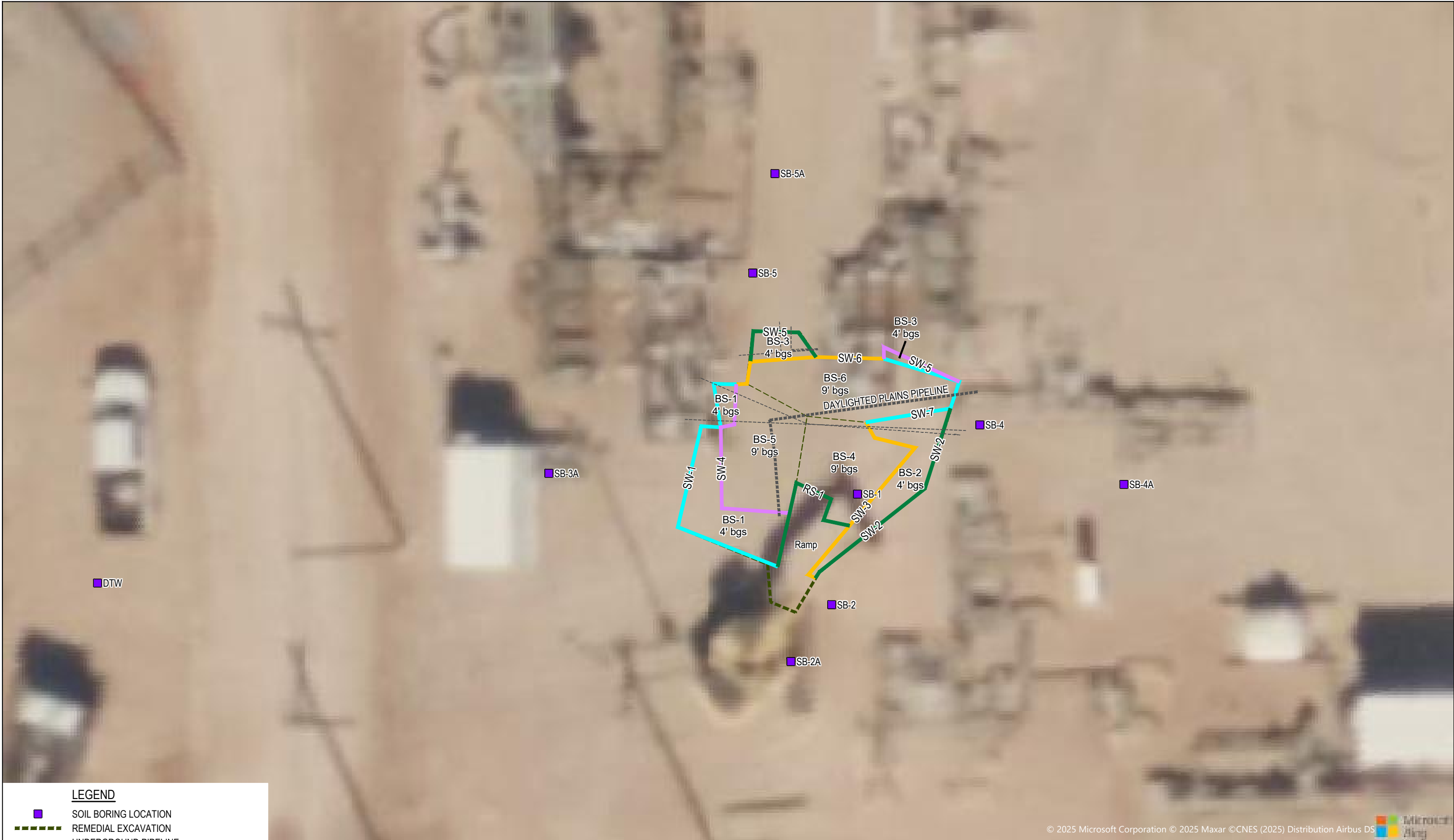


PLAINS ALL AMERICAN PIPELINE, L.P.  
LEA COUNTY, NEW MEXICO  
RED HILLS STATION RELEASE - SRS# 2023-076

Project No. 12626654  
Date March 2025

SITE LOCATION MAP

FIGURE 1



LEGEND

- SOIL BORING LOCATION
- REMEDIAL EXCAVATION
- UNDERGROUND PIPELINE
- UNDERGROUND UTILITIES - ELECTRICAL
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE

NOTE:

- SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.

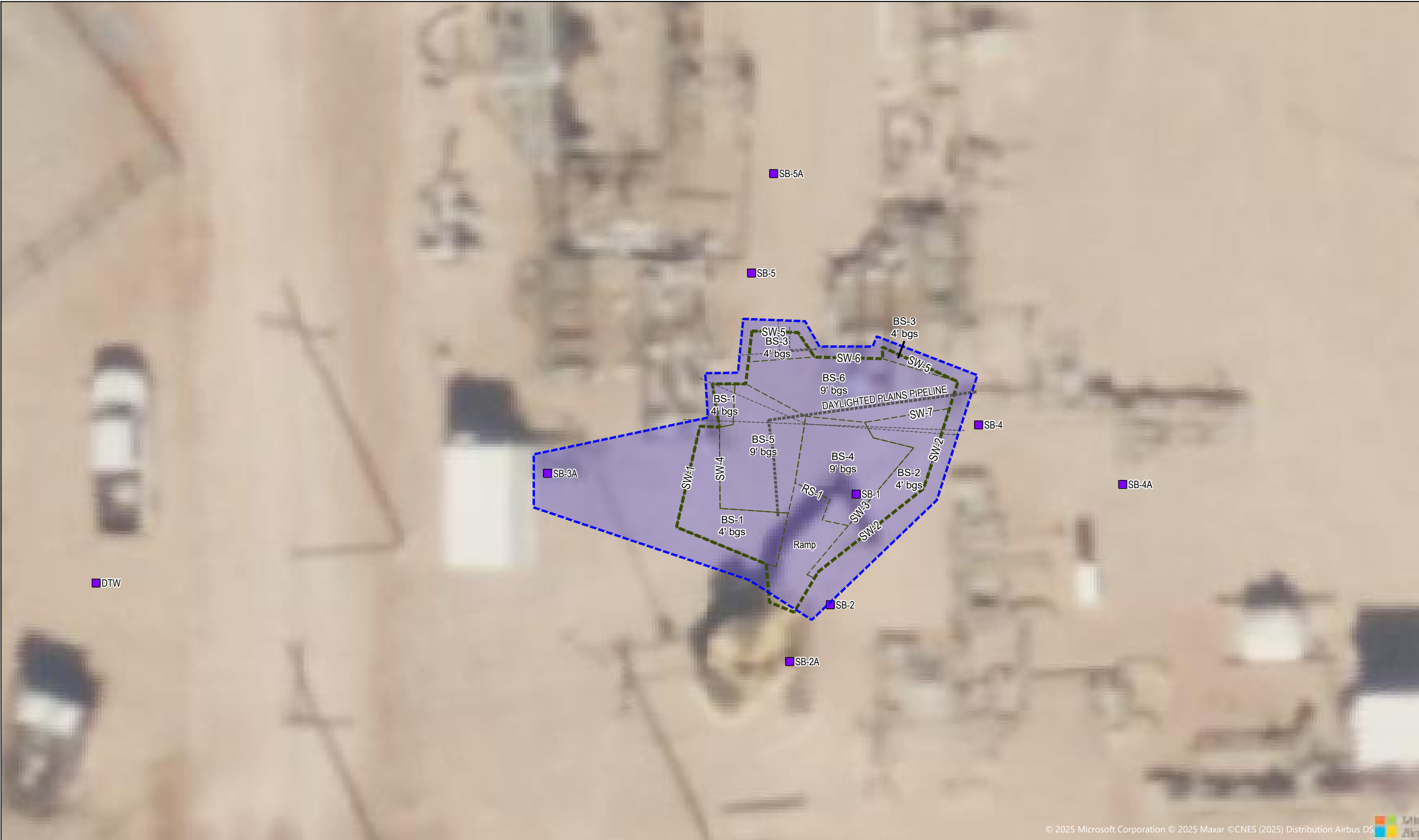
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PLAINS ALL AMERICAN PIPELINE, L.P.  
LEA COUNTY, NEW MEXICO  
RED HILLS STATION RELEASE - SRS# 2023-076

Project No. 12626654  
Date March 2025

SAMPLE LOCATIONS MAP

FIGURE 2

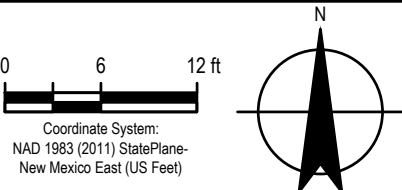


LEGEND

- DEFERMENT AREA
- SOIL BORING LOCATION
- REMEDIAL EXCAVATION
- UNDERGROUND PIPELINE
- UNDERGROUND UTILITIES - ELECTRICAL

NOTE:

- SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.



PLAINS ALL AMERICAN PIPELINE, L.P.  
LEA COUNTY, NEW MEXICO  
RED HILLS STATION RELEASE - SRS# 2023-076

Project No. 12626654  
Date March 2025

DEFERMENT AREA

FIGURE 3

# Appendices

# Appendix A

## Release Notification and Corrective Action

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

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

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

Incident ID	nAPP2329632113
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Plains All American Pipeline, LP	OGRID	34053
Contact Name	Karolanne Hudgens	Contact Telephone	575-200-5517
Contact email	Karolanne.Hudgens@plains.com	Incident # (assigned by OCD)	nAPP2329632113
Contact mailing address	1106 Griffith Drive, Midland, TX 79706		

### Location of Release Source

Latitude 32.06577502 Longitude -103.6659723  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Red Hills Station Release	Site Type	pipeline release
Date Release Discovered	10/19/23	API# (if applicable)	

Unit Letter	Section	Township	Range	County
N	3	26S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	7.7 bbls	Volume Recovered (bbls)	0
<input type="checkbox"/> Produced Water	Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

Cause of Release

Internal corrosion of crude oil pipeline



State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2329632113
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Karolanne Hudgens</u>	Title: <u>HSE Remediation Specialist II</u>
Signature: <u>[Signature]</u>	Date: <u>10/23/23</u>
email: <u>Karolanne.hudgens@plains.com</u>	Telephone: <u>575-200-5517</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Soil Type	Est. Pore Space
Clay	15%
Sandy Clay	12%
Silt	16%
Loess	25%
Fine Sand	16%
Med. Sand	25%
Coarse Sand	26%
Gravelly Sand	26%
Fine Gravel	26%
Med. Gravel	25%
Coarse Gravel	18%
Compacted Caliche Pad	16%
Loosely Compacted Caliche Pad	20%

Location:

Rule of Thumb

7.7 = Total Estimated Barrels of Oil in Soil

To Calculate The Oil Content of Saturated Soil

Average Pore Space Between Soil Grains Ranges From A Low of 15% To A High of 26%. Pure Sand Being 26%.

12% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

15 = Width in Feet

4 = Length in Feet

0 = Depth in Inches

6 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

323.14 = Gallons of Oil In Soil

7.7 = Barrels of Oil In Soil

\*\*\*If different soil types are impacted (I.E. Caliche Pad and Sandy Clay Pasture Area), additional calculation boxes are provided below. If not, please make sure the dimensions are zeroed out before finalizing.\*\*\*

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

= Width in Feet

= Length in Feet

= Depth in Inches

0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

0.00 = Gallons of Oil In Soil

0.0 = Barrels of Oil In Soil

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

= Width in Feet

= Length in Feet

= Depth in Inches

0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

0.00 = Gallons of Oil In Soil

0.0 = Barrels of Oil In Soil



# Appendix B

## Site Characterization and Receptor Review

## Karst Potential Map

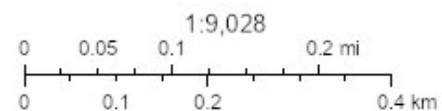


4/5/2025, 12:41:29 PM

Karst Occurrence Potential

Medium

Low



BLM, OCD, New Mexico Tech, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, OCD

New Mexico Oil Conservation Division  
NM OCD Oil and Gas Map, <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d0172306164de29fd2fb9f8f35ca75> New Mexico Oil Conservation Division



# OSE POD Location Map



10/31/2023, 12:57:58 PM

GIS WATERS PODs

● Plugged

□ OSE District Boundary

Water Right Regulations

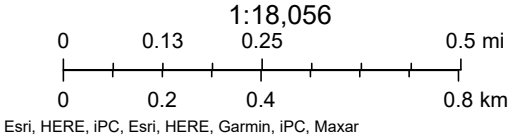
□ Closure Area

New Mexico State Trust Lands

□ Both Estates

NHD Flowlines

— Stream River







## Red Hills Station Release



March 11, 2025

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

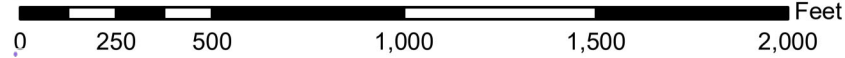
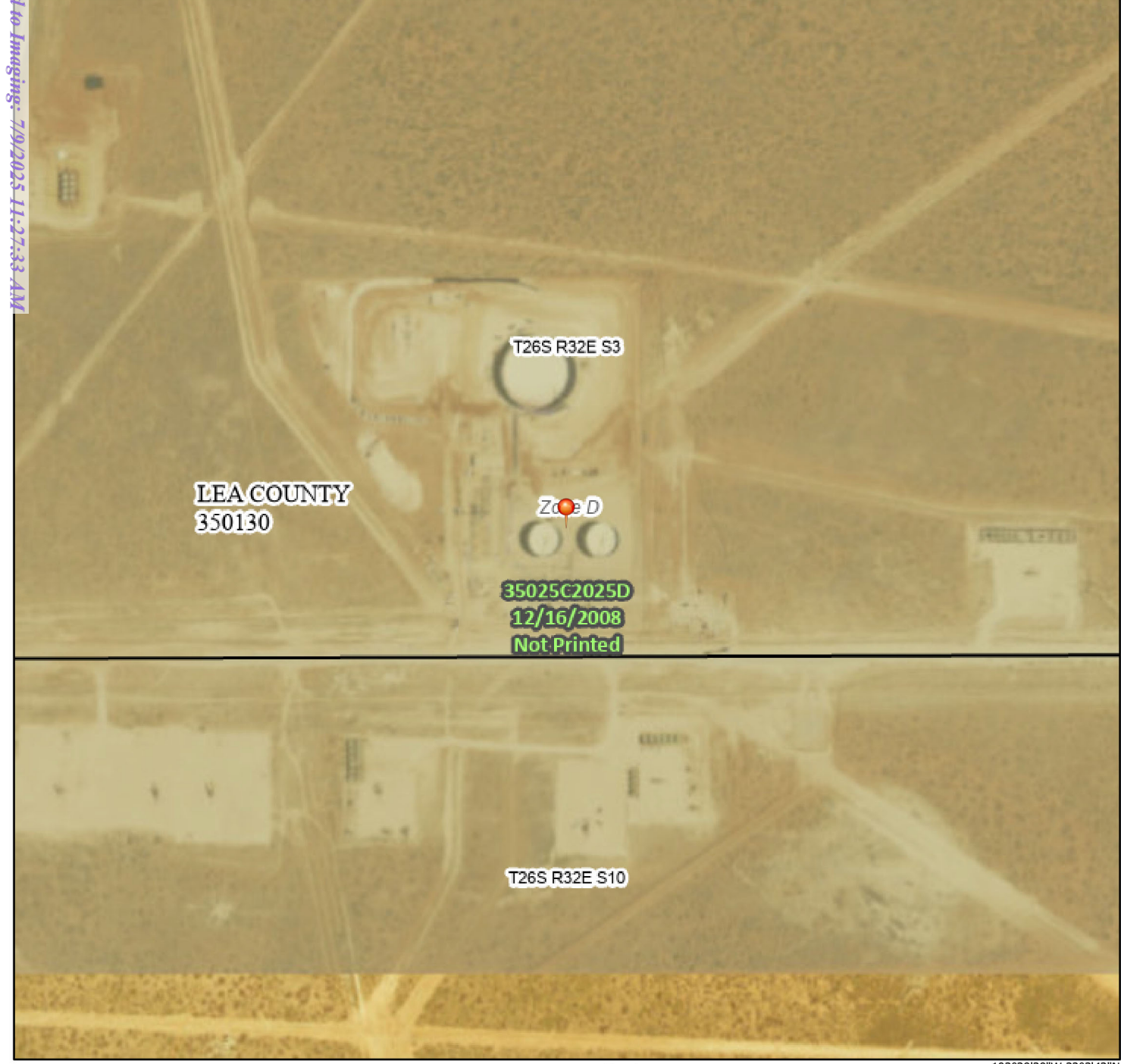
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMMette



3°40'16"W 32°4'13"N



1:6,000

103°39'39"W 32°3'43"N

Basemap Imagery Source: USGS National Map 2023

## Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/31/2023 at 4:01 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 7/9/2025 11:27:33 AM

Received by OCD: 5/1/2025 11:51:02 AM

# Appendix C

## Site Boring Logs



# STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 3

PROJECT NAME: Red Hills Station Release - SRS# 2023-076

HOLE DESIGNATION: DTW

PROJECT NUMBER: 12626654

DATE COMPLETED: 15 March 2024

CLIENT: Plains

DRILLING METHOD: Air Rotary

LOCATION: Lea County

FIELD PERSONNEL: Mitchell Clemens

DRILLING CONTRACTOR: Talon

DRILLER: Jesse

File: N:\US\HOUSTON\PROJECTS\12626654\TECH\INT\LOG DATABASE\12626654-RED HILLS STN RELEASE.GPJ Library File: GHD\_ENVIRO\_V11.GLB Report: OVERBURDEN LOG Date: 11/3/25

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (ft)	'N' Value	
2	Brown-red TOPSOIL, very fine SILTY SAND, loose to medium consolidations						
4							
6	SM-SILTY SAND, light yellow orange, very fine grained, loose to hard consolidations, thin layer of well cemented sandstone	5.00					
8							
10	- medium to hard consolidated, hard layers of caliche from 10.00 to 20.00ft BGS						
12							
14	color changes to dull orange	15.00					
16							
18							
20							
22	- dull orange, small fragments of pebbles, some limestone and sandstones from 20.00 to 35.00ft BGS						
24							
26							
28							
30							
32							
34	- presence of limestone and sandstone (5-15mm) from 35.00 to 55.00ft BGS						
36							
38							
40							
42							
44							
46							
48							

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



# STRATIGRAPHIC LOG (OVERBURDEN)

Page 2 of 3

PROJECT NAME: Red Hills Station Release - SRS# 2023-076

HOLE DESIGNATION: DTW

PROJECT NUMBER: 12626654

DATE COMPLETED: 15 March 2024

CLIENT: Plains

DRILLING METHOD: Air Rotary

LOCATION: Lea County

FIELD PERSONNEL: Mitchell Clemens

DRILLING CONTRACTOR: Talon

DRILLER: Jesse

File: N:\US\HOUSTON\PROJECTS\66212626654\TECH\INT\LOG DATABASE\12626654-RED HILLS STN RELEASE.GPJ Library File: GHD\_ENVIRO\_V11.GLB Report: OVERBURDEN LOG Date: 11/3/25

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (ft)	'N Value	
52							
54							
56							
58							
60	- yellow grey orange, almost no pebbles presence from 60.00 to 70.00ft BGS						
62							
64							
66							
68							
70	dull orange, thin layers of well cemented sandstone and limestone	70.00					
72							
74	- encountered presence of 5-15 mm limestone pebbles from 75.00 to 85.00ft BGS						
76							
78							
80							
82							
84	- light brownish grey, loose consolidation from 85.00 to 100.00ft BGS						
86							
88							
90							
92							
94							
96							
98							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE





# STRATIGRAPHIC LOG (OVERBURDEN)

Page 3 of 3

PROJECT NAME: Red Hills Station Release - SRS# 2023-076

HOLE DESIGNATION: DTW

PROJECT NUMBER: 12626654

DATE COMPLETED: 15 March 2024

CLIENT: Plains

DRILLING METHOD: Air Rotary



LOCATION: Lea County

FIELD PERSONNEL: Mitchell Clemens

DRILLING CONTRACTOR: Talon

DRILLER: Jesse

File: N:\US\HOUSTON\PROJECTS\12626654\TECH\INT\LOG DATABASE\12626654-RED HILLS STN RELEASE.GPJ Library File: GHD\_ENVIRO\_V11.GLB Report: OVERBURDEN LOG Date: 11/3/25

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (ft)	'N' Value	
102	- moist at 100.00ft BGS						
104							
106	END OF BOREHOLE @ 105.00ft BGS	105.00					
108							
110							
112							
114							
116							
118							
120							
122							
124							
126							
128							
130							
132							
134							
136							
138							
140							
142							
144							
146							
148							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



# STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Red Hills Station Release - SRS# 2023-076

HOLE DESIGNATION: SB-1

PROJECT NUMBER: 12626654

DATE COMPLETED: 25 March 2024

CLIENT: Plains

DRILLING METHOD: Air Rotary

LOCATION: Lea County

FIELD PERSONNEL: Mitchell Clemens

DRILLING CONTRACTOR: Talon

DRILLER: Jesse

File: N:\US\HOUSTON\PROJECTS\562\12626654\TECH\INT\LOG DATABASE\12626654-RED HILLS STN RELEASE.GPJ Library File: GHD\_ENVIRO\_V11.GLB Report: OVERBURDEN LOG Date: 11/3/25

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (ft)	'N' Value	PID (ppm)
2	BACKFILL/SM-SILTY SAND, red orange yellow, well cemented limestone, no odor						
4							
6							
8							
10	SM-SILTY SAND, light yellow orange, very fine grained, layers of well cemented sandstone, larger limestone and caliche nodules (4-12 mm) - hydrocarbon odor present from 10.00 to 65.00ft BGS  - harder layer of caliche, dull orange, well cemented sandstone and limestone (5-10 mm) at 12.00ft BGS  decreasing amount of well cemented sandstone and limestone - dull orange, then layers of well cemented sandstone, pebble sized limestone and siltstone, medium to hard consolidations from 16.00 to 35.00ft BGS  decreasing amount of pebble sized limestone and sandstone  - brown-red, sparse pebble sized limestones, loose to medium consolidations from 35.00 to 55.00ft BGS  very sparse limestone (1-3 mm)	8.00					862.2
12							941.2
14							834.6
16		15.00					863.3
18							834.1
20							432.1
22							
24							
26		25.00					626.1
28							
30							532.4
32							
34							
36							638.8
38							
40							610.1
42							
44							
46		45.00					429.3
48							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



## STRATIGRAPHIC LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Red Hills Station Release - SRS# 2023-076

HOLE DESIGNATION: SB-1

PROJECT NUMBER: 12626654

DATE COMPLETED: 25 March 2024

CLIENT: Plains

DRILLING METHOD: Air Rotary

LOCATION: Lea County

FIELD PERSONNEL: Mitchell Clemens

DRILLING CONTRACTOR: Talon

DRILLER: Jesse

File: N:\US\HOUSTON\PROJECTS\12626654\TECH\INT\LOG DATABASE\12626654-RED HILLS STN RELEASE.GPJ Library File: GHD\_ENVIRO\_V11.GLB Report: OVERBURDEN LOG Date: 11/3/25

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (ft)	'N' Value	PID (ppm)
52	medium to hard consolidations, limestone and sandstone layers (5-10 mm)	55.00					411.1
54							562.1
56							312.8
58							125.8
60	loose, sparce presence of limestone pebbles (2-3 mm)	60.00					
62							
64	color changes to light yellow orange, absence of any pebbles, loose, no hydrocarbon odor	65.00					
66							
68	END OF BOREHOLE @ 70.00ft BGS	70.00					34.6
70							
72							
74							
76							
78							
80							
82							
84							
86							
88							
90							
92							
94							
96							
98							

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



# STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Red Hills Station Release - SRS# 2023-076

HOLE DESIGNATION: SB-2A

PROJECT NUMBER: 12626654

DATE COMPLETED: 23 March 2024

CLIENT: Plains

DRILLING METHOD: Air Rotary

LOCATION: Lea County

FIELD PERSONNEL: Mitchell Clemens

DRILLING CONTRACTOR: Talon

DRILLER: Jesse

File: N:\US\HOUSTON\PROJECTS\12626654\TECH\INT\LOG DATABASE\12626654-RED HILLS STN RELEASE.GPJ Library File: GHD\_ENVIRO\_V11.GLB Report: OVERBURDEN LOG Date: 11/3/25

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (ft)	'N' Value	PID (ppm)
2	TOPSOIL/PAD COVERING-SILTY SAND, light yellow to grey, very fine gravel, limestone and sandstone pebbles (1-5mm)						7.4
4	SM-SILTY SAND, dull orange, very fine grained, loose to hard consolidations, thin layers of limestone and sandstones	4.00					8.9
6	light yellow orange, loose, layers of limestone and sandstone	6.00					21.3
8	additional presence of limestone pebbles (2-10 mm)	8.00					37.5
10	thin layers of sandstone, medium to hard consolidations	10.00					43.7
12	light grey, hard layer of caliche, sub-rounded limestone (5-15 mm)	12.00					36.2
14	sparsely presence of sub-angular limestone	14.00					27.4
16	presence of sub-rounded limestone (10-20 mm)	16.00					12.3
18							12.4
20	END OF BOREHOLE @ 20.00ft BGS	20.00					10.6
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



## STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Red Hills Station Release - SRS# 2023-076

HOLE DESIGNATION: SB-3A

PROJECT NUMBER: 12626654

DATE COMPLETED: 23 March 2024

CLIENT: Plains

DRILLING METHOD: Air Rotary

LOCATION: Lea County

FIELD PERSONNEL: Mitchell Clemens

DRILLING CONTRACTOR: Talon

DRILLER: Jesse

File: N:\US\HOUSTON\PROJECTS\166212626654\TECH\INT\LOG DATABASE\12626654-RED HILLS STN RELEASE.GPJ Library File: GHD\_ENVIRO\_V11.GLB Report: OVERBURDEN LOG Date: 11/3/25

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (ft)	'N' Value	PID (ppm)
2	TOPSOIL/PAD COVERING-SILTY SAND, very fine gravel, dull brown, pebbles (1-2 mm)						12.5
4	- pressure of 4-10mm siltstone and limestone pebbles from 2.00 to 4.00ft BGS						17.1
6		6.00					36.2
8	SM-SILTY SAND, dull orange, very fine grained, loose to medium consolidation, sparce limestone and sandstone pebbes (1-4mm)						27.8
10	- dull yellow orange color changing						27.9
12	presence of larger sub-rounded limestone rocks approx (5-12mm) from 8.00 to 14.00ft BGS						29.3
14	- hard layer of caliche encountered at 13.00ft BGS						14.2
16	- dull orange, medium to hard consolidations, sub-angular limestone (5-20mm) from 14.00 to 20.00ft BGS						18.6
18	- reddish brown, heavy pressure of sub-angular limestone (10-33mm), medium to hard consolidations at 16.00ft BGS						13.3
20	END OF BOREHOLE @ 20.00ft BGS	20.00					9.4
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



# STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Red Hills Station Release - SRS# 2023-076

HOLE DESIGNATION: SB-5A

PROJECT NUMBER: 12626654

DATE COMPLETED: 21 March 2024

CLIENT: Plains

DRILLING METHOD: Air Rotary

LOCATION: Lea County

FIELD PERSONNEL: Mitchell Clemens

DRILLING CONTRACTOR: Talon

DRILLER: Jesse

File: N:\US\HOUSTON\PROJECTS\12626654\TECH\INT\LOG DATABASE\12626654-RED HILLS STN RELEASE.GPJ Library File: GHD\_ENVIRO\_V11.GLB Report: OVERBURDEN LOG Date: 11/3/25

DEPTH ft BGS		STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE					
				NUMBER	INTERVAL	REC (ft)	'N' Value	PID (ppm)	
2		TOPSOIL/PAD COVERING-SILTY SAND, very fine gravel, dull orange, sparce pebbles of limestone, loose consolidation only	6.00						14.1
4		- heavier limestone pebbles (1-4 mm) at 4.00ft BGS							16.6
6		SM-SILTY SAND, light yellow orange, very fine grained, presence of sub-rounded limestone (1-5 mm), loose consolidation only							27.4
8									41.4
10									55.6
12				- hard layer of caliche, sub-angular limestone (5-10mm) at 12.00ft BGS					64.1
14			dull orange, loose to medium consolidation, sprace presence of limestone (2-4 mm)					54.3	
16		- almost no consolidation/no pebbles at 16.00ft BGS	20.00					34.1	
18		- medium to hard consolidation, heavy presence of large sub-angular limestone at 18.00ft BGS						23.3	
20		END OF BOREHOLE @ 20.00ft BGS						12.1	
22									
24									
26									
28									
30									
32									
34									
36									
38									
40									
42									
44									
46									
48									

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

# **Appendix D**

## **Certified Laboratory Analytical Reports**

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Stephan Ansong Asante  
GHD Services-Midland  
2135 S. Loop 250 West  
Midland, TX 79703

Project: Red Hills Release

Project Number: 12626654

Location: Jal, NM

Lab Order Number: 3K06015



**Current Certification**

Report Date: 11/13/23



GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RS-1 (0-9')	3K06015-01	Soil	11/03/23 16:00	11-06-2023 11:49
SW-1 (0-4')	3K06015-02	Soil	11/03/23 16:05	11-06-2023 11:49
SW-2 (0-4')	3K06015-03	Soil	11/03/23 16:10	11-06-2023 11:49
SW-3 (4-9')	3K06015-04	Soil	11/03/23 16:15	11-06-2023 11:49
SW-4 (4-9')	3K06015-05	Soil	11/03/23 16:20	11-06-2023 11:49
SW-5 (0-4')	3K06015-06	Soil	11/03/23 16:25	11-06-2023 11:49
SW-6 (0-9')	3K06015-07	Soil	11/03/23 16:30	11-06-2023 11:49
SW-7 (4-9')	3K06015-08	Soil	11/03/23 16:35	11-06-2023 11:49
BS-1 (4')	3K06015-09	Soil	11/03/23 16:40	11-06-2023 11:49
BS-2 (4')	3K06015-10	Soil	11/03/23 16:45	11-06-2023 11:49
BS-3 (4')	3K06015-11	Soil	11/03/23 16:50	11-06-2023 11:49
BS-4 (9')	3K06015-12	Soil	11/03/23 16:55	11-06-2023 11:49
BS-5 (9')	3K06015-13	Soil	11/03/23 17:00	11-06-2023 11:49
BS-6 (9')	3K06015-14	Soil	11/03/23 17:05	11-06-2023 11:49

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Stephan Ansong Asante

RS-1 (0-9')  
3K06015-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

<b>BTEX by 8021B</b>									
Benzene	0.00987	0.00106	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 14:55	EPA 8021B	
Toluene	0.0181	0.00106	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 14:55	EPA 8021B	
Ethylbenzene	0.0300	0.00106	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 14:55	EPA 8021B	
Xylene (p/m)	0.261	0.00213	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 14:55	EPA 8021B	
Xylene (o)	0.104	0.00106	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 14:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	121 %	80-120			P3K0709	11/07/23 09:12	11/07/23 14:55	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	93.6 %	80-120			P3K0709	11/07/23 09:12	11/07/23 14:55	EPA 8021B	
Xylenes (total)	0.365	0.00213	mg/kg dry	1	[CALC]	11/07/23 09:12	11/07/23 14:55	EPA 8021B	
Total BTEX	0.423	0.00106	mg/kg dry	1	[CALC]	11/07/23 09:12	11/07/23 14:55	EPA 8021B	

<b>Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M</b>									
C6-C12	97.5	26.6	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 16:11	TPH 8015M	
>C12-C28	394	26.6	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 16:11	TPH 8015M	
>C28-C35	60.0	26.6	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 16:11	TPH 8015M	
Surrogate: 1-Chlorooctane	74.4 %	70-130			P3K0608	11/06/23 13:47	11/07/23 16:11	TPH 8015M	
Surrogate: o-Terphenyl	85.7 %	70-130			P3K0608	11/06/23 13:47	11/07/23 16:11	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	551	26.6	mg/kg dry	1	[CALC]	11/06/23 13:47	11/07/23 16:11	calc	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
Chloride	16.8	1.06	mg/kg dry	1	P3K0610	11/06/23 14:42	11/06/23 21:46	EPA 300.0	
% Moisture	6.0	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**SW-1 (0-4')**  
**3K06015-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00544</b>	0.00104	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 15:20	EPA 8021B	
<b>Toluene</b>	<b>0.0982</b>	0.00104	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 15:20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.222</b>	0.00104	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 15:20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.807</b>	0.00208	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 15:20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.317</b>	0.00104	mg/kg dry	1	P3K0709	11/07/23 09:12	11/07/23 15:20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>128 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/07/23 15:20</i>	<i>EPA 8021B</i>	<i>S-GC</i>
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>87.9 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/07/23 15:20</i>	<i>EPA 8021B</i>	
<b>Xylenes (total)</b>	<b>1.12</b>	0.00208	mg/kg dry	1	[CALC]	11/07/23 09:12	11/07/23 15:20	EPA 8021B	
<b>Total BTEX</b>	<b>1.45</b>	0.00104	mg/kg dry	1	[CALC]	11/07/23 09:12	11/07/23 15:20	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>73.6</b>	26.0	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 16:35	TPH 8015M	
<b>&gt;C12-C28</b>	<b>163</b>	26.0	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 16:35	TPH 8015M	
<b>&gt;C28-C35</b>	<b>27.6</b>	26.0	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 16:35	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>62.4 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 16:35</i>	<i>TPH 8015M</i>	<i>S-GC</i>
<i>Surrogate: o-Terphenyl</i>	<i>73.4 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 16:35</i>	<i>TPH 8015M</i>	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>264</b>	26.0	mg/kg dry	1	[CALC]	11/06/23 13:47	11/07/23 16:35	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>34.6</b>	1.04	mg/kg dry	1	P3K0610	11/06/23 14:42	11/06/23 22:00	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**SW-2 (0-4')**  
**3K06015-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0180</b>	0.00105	mg/kg dry	1	P3K0709	11/07/23 09:12	11/10/23 10:50	EPA 8021B	
<b>Toluene</b>	<b>0.485</b>	0.105	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 10:50	EPA 8021B	
<b>Ethylbenzene</b>	<b>1.72</b>	0.105	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 10:50	EPA 8021B	
<b>Xylene (p/m)</b>	<b>12.0</b>	0.211	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 10:50	EPA 8021B	
<b>Xylene (o)</b>	<b>3.60</b>	0.105	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 10:50	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.8 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 10:50</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>93.2 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 10:50</i>	<i>EPA 8021B</i>	
<b>Xylenes (total)</b>	<b>15.5</b>	0.211	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 10:50	EPA 8021B	
<b>Total BTEX</b>	<b>17.8</b>	0.00105	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 10:50	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>1050</b>	26.3	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 16:59	TPH 8015M	
<b>&gt;C12-C28</b>	<b>2150</b>	26.3	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 16:59	TPH 8015M	
<b>&gt;C28-C35</b>	<b>330</b>	26.3	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 16:59	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>101 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 16:59</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>76.8 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 16:59</i>	<i>TPH 8015M</i>	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>3530</b>	26.3	mg/kg dry	1	[CALC]	11/06/23 13:47	11/07/23 16:59	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>51.6</b>	1.05	mg/kg dry	1	P3K0610	11/06/23 14:42	11/06/23 22:14	EPA 300.0	
<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Stephan Ansong Asante

SW-3 (4-9')  
3K06015-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

<b>BTEX by 8021B</b>									
Benzene	0.117	0.111	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:14	EPA 8021B	
Toluene	7.12	0.111	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:14	EPA 8021B	
Ethylbenzene	6.30	0.111	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:14	EPA 8021B	
Xylene (p/m)	31.3	0.222	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:14	EPA 8021B	
Xylene (o)	11.3	0.111	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	83.1 %		80-120		P3K0709	11/07/23 09:12	11/10/23 11:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.5 %		80-120		P3K0709	11/07/23 09:12	11/10/23 11:14	EPA 8021B	
Xylenes (total)	42.7	0.222	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 11:14	EPA 8021B	
Total BTEX	56.2	0.111	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 11:14	EPA 8021B	

<b>Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M</b>									
C6-C12	2990	139	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 17:23	TPH 8015M	
>C12-C28	9360	139	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 17:23	TPH 8015M	
>C28-C35	1450	139	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 17:23	TPH 8015M	
Surrogate: 1-Chlorooctane	98.5 %		70-130		P3K0608	11/06/23 13:47	11/07/23 17:23	TPH 8015M	
Surrogate: o-Terphenyl	90.5 %		70-130		P3K0608	11/06/23 13:47	11/07/23 17:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	13800	139	mg/kg dry	5	[CALC]	11/06/23 13:47	11/07/23 17:23	calc	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
Chloride	66.9	1.11	mg/kg dry	1	P3K0610	11/06/23 14:42	11/06/23 22:29	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**SW-4 (4-9')  
3K06015-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>3.34</b>	0.115	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:39	EPA 8021B	
<b>Toluene</b>	<b>46.1</b>	0.115	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:39	EPA 8021B	
<b>Ethylbenzene</b>	<b>23.7</b>	0.115	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:39	EPA 8021B	
<b>Xylene (p/m)</b>	<b>75.3</b>	0.230	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:39	EPA 8021B	
<b>Xylene (o)</b>	<b>27.8</b>	0.115	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 11:39	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.1 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 11:39</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>83.8 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 11:39</i>	<i>EPA 8021B</i>	
<b>Xylenes (total)</b>	<b>103</b>	0.230	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 11:39	EPA 8021B	
<b>Total BTEX</b>	<b>176</b>	0.115	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 11:39	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>5270</b>	144	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 17:47	TPH 8015M	
<b>&gt;C12-C28</b>	<b>9480</b>	144	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 17:47	TPH 8015M	
<b>&gt;C28-C35</b>	<b>1520</b>	144	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 17:47	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>93.3 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 17:47</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>67.8 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 17:47</i>	<i>TPH 8015M</i>	<i>S-GC</i>
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>16300</b>	144	mg/kg dry	5	[CALC]	11/06/23 13:47	11/07/23 17:47	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>61.2</b>	1.15	mg/kg dry	1	P3K0610	11/06/23 14:42	11/06/23 22:43	EPA 300.0	
<b>% Moisture</b>	<b>13.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**SW-5 (0-4')**  
**3K06015-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>1.70</b>	0.109	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:03	EPA 8021B	
<b>Toluene</b>	<b>23.8</b>	0.109	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:03	EPA 8021B	
<b>Ethylbenzene</b>	<b>13.5</b>	0.109	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:03	EPA 8021B	
<b>Xylene (p/m)</b>	<b>54.5</b>	0.217	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:03	EPA 8021B	
<b>Xylene (o)</b>	<b>17.6</b>	0.109	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:03	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 12:03</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>85.8 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 12:03</i>	<i>EPA 8021B</i>	
<b>Xylenes (total)</b>	<b>72.2</b>	0.217	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 12:03	EPA 8021B	
<b>Total BTEX</b>	<b>111</b>	0.109	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 12:03	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>3530</b>	27.2	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 18:11	TPH 8015M	
<b>&gt;C12-C28</b>	<b>4940</b>	27.2	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 18:11	TPH 8015M	
<b>&gt;C28-C35</b>	<b>1010</b>	27.2	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 18:11	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>96.4 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 18:11</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>99.8 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 18:11</i>	<i>TPH 8015M</i>	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>9480</b>	27.2	mg/kg dry	1	[CALC]	11/06/23 13:47	11/07/23 18:11	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>60.5</b>	1.09	mg/kg dry	1	P3K0610	11/06/23 14:42	11/06/23 22:57	EPA 300.0	
<b>% Moisture</b>	<b>8.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**SW-6 (0-9")**  
**3K06015-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>1.54</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:27	EPA 8021B	
<b>Toluene</b>	<b>36.9</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:27	EPA 8021B	
<b>Ethylbenzene</b>	<b>17.9</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:27	EPA 8021B	
<b>Xylene (p/m)</b>	<b>67.1</b>	0.227	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:27	EPA 8021B	
<b>Xylene (o)</b>	<b>24.4</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:27	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>86.8 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 12:27</i>	<i>EPA 8021B</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>105 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 12:27</i>	<i>EPA 8021B</i>	
<b>Xylenes (total)</b>	<b>91.5</b>	0.227	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 12:27	EPA 8021B	
<b>Total BTEX</b>	<b>148</b>	0.114	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 12:27	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>4920</b>	142	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 18:35	TPH 8015M	
<b>&gt;C12-C28</b>	<b>11800</b>	142	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 18:35	TPH 8015M	
<b>&gt;C28-C35</b>	<b>2090</b>	142	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 18:35	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>89.0 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 18:35</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>92.4 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 18:35</i>	<i>TPH 8015M</i>	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>18800</b>	142	mg/kg dry	5	[CALC]	11/06/23 13:47	11/07/23 18:35	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>126</b>	1.14	mg/kg dry	1	P3K0610	11/06/23 14:42	11/06/23 23:12	EPA 300.0	
<b>% Moisture</b>	<b>12.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**SW-7 (4-9")**  
**3K06015-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>2.67</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:52	EPA 8021B	
<b>Toluene</b>	<b>26.1</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:52	EPA 8021B	
<b>Ethylbenzene</b>	<b>8.36</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:52	EPA 8021B	
<b>Xylene (p/m)</b>	<b>31.6</b>	0.227	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:52	EPA 8021B	
<b>Xylene (o)</b>	<b>11.5</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 12:52	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		87.9 %	80-120		P3K0709	11/07/23 09:12	11/10/23 12:52	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.5 %	80-120		P3K0709	11/07/23 09:12	11/10/23 12:52	EPA 8021B	
<b>Xylenes (total)</b>	<b>43.1</b>	0.227	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 12:52	EPA 8021B	
<b>Total BTEX</b>	<b>80.2</b>	0.114	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 12:52	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>4790</b>	284	mg/kg dry	10	P3K0608	11/06/23 13:47	11/07/23 18:59	TPH 8015M	
<b>&gt;C12-C28</b>	<b>27200</b>	284	mg/kg dry	10	P3K0608	11/06/23 13:47	11/07/23 18:59	TPH 8015M	
<b>&gt;C28-C35</b>	<b>4530</b>	284	mg/kg dry	10	P3K0608	11/06/23 13:47	11/07/23 18:59	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		92.4 %	70-130		P3K0608	11/06/23 13:47	11/07/23 18:59	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		112 %	70-130		P3K0608	11/06/23 13:47	11/07/23 18:59	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>36500</b>	284	mg/kg dry	10	[CALC]	11/06/23 13:47	11/07/23 18:59	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>161</b>	1.14	mg/kg dry	1	P3K0610	11/06/23 14:42	11/06/23 23:26	EPA 300.0	
<b>% Moisture</b>	<b>12.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**BS-1 (4')**  
**3K06015-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.109	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:16	EPA 8021B	
Toluene	1.82	0.109	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:16	EPA 8021B	
Ethylbenzene	2.40	0.109	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:16	EPA 8021B	
Xylene (p/m)	17.4	0.217	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:16	EPA 8021B	
Xylene (o)	4.06	0.109	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.8 %		80-120		P3K0709	11/07/23 09:12	11/10/23 13:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	92.5 %		80-120		P3K0709	11/07/23 09:12	11/10/23 13:16	EPA 8021B	
Xylenes (total)	21.5	0.217	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 13:16	EPA 8021B	
Total BTEX	25.7	0.109	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 13:16	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	1040	27.2	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 19:23	TPH 8015M	
>C12-C28	2950	27.2	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 19:23	TPH 8015M	
>C28-C35	479	27.2	mg/kg dry	1	P3K0608	11/06/23 13:47	11/07/23 19:23	TPH 8015M	
Surrogate: 1-Chlorooctane	90.1 %		70-130		P3K0608	11/06/23 13:47	11/07/23 19:23	TPH 8015M	
Surrogate: o-Terphenyl	77.1 %		70-130		P3K0608	11/06/23 13:47	11/07/23 19:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	4470	27.2	mg/kg dry	1	[CALC]	11/06/23 13:47	11/07/23 19:23	calc	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	32.2	1.09	mg/kg dry	1	P3K0610	11/06/23 14:42	11/06/23 23:40	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**BS-2 (4')**  
**3K06015-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.607</b>	0.112	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:41	EPA 8021B	
<b>Toluene</b>	<b>17.2</b>	0.112	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:41	EPA 8021B	
<b>Ethylbenzene</b>	<b>4.49</b>	0.112	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:41	EPA 8021B	
<b>Xylene (p/m)</b>	<b>64.1</b>	0.225	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:41	EPA 8021B	
<b>Xylene (o)</b>	<b>20.0</b>	0.112	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 13:41	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 13:41</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>87.4 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 13:41</i>	<i>EPA 8021B</i>	
<b>Xylenes (total)</b>	<b>84.0</b>	0.225	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 13:41	EPA 8021B	
<b>Total BTEX</b>	<b>106</b>	0.112	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 13:41	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>3790</b>	140	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 19:46	TPH 8015M	
<b>&gt;C12-C28</b>	<b>7060</b>	140	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 19:46	TPH 8015M	
<b>&gt;C28-C35</b>	<b>1250</b>	140	mg/kg dry	5	P3K0608	11/06/23 13:47	11/07/23 19:46	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>90.4 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 19:46</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>19.4 %</i>		<i>70-130</i>		<i>P3K0608</i>	<i>11/06/23 13:47</i>	<i>11/07/23 19:46</i>	<i>TPH 8015M</i>	<i>S-GC</i>
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>12100</b>	140	mg/kg dry	5	[CALC]	11/06/23 13:47	11/07/23 19:46	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>43.1</b>	1.12	mg/kg dry	1	P3K0610	11/06/23 14:42	11/07/23 00:23	EPA 300.0	
<b>% Moisture</b>	<b>11.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**BS-3 (4')**  
**3K06015-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>10.2</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:05	EPA 8021B	
<b>Toluene</b>	<b>57.5</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:05	EPA 8021B	
<b>Ethylbenzene</b>	<b>22.7</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:05	EPA 8021B	
<b>Xylene (p/m)</b>	<b>80.8</b>	0.227	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:05	EPA 8021B	
<b>Xylene (o)</b>	<b>29.3</b>	0.114	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:05	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		77.7 %			P3K0709	11/07/23 09:12	11/10/23 14:05	EPA 8021B	S-GC
<i>Surrogate: 4-Bromofluorobenzene</i>		92.1 %			P3K0709	11/07/23 09:12	11/10/23 14:05	EPA 8021B	
<b>Xylenes (total)</b>	<b>110</b>	0.227	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 14:05	EPA 8021B	
<b>Total BTEX</b>	<b>201</b>	0.114	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 14:05	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>7730</b>	284	mg/kg dry	10	P3K0609	11/06/23 13:49	11/07/23 23:18	TPH 8015M	
<b>&gt;C12-C28</b>	<b>9290</b>	284	mg/kg dry	10	P3K0609	11/06/23 13:49	11/07/23 23:18	TPH 8015M	
<b>&gt;C28-C35</b>	<b>1470</b>	284	mg/kg dry	10	P3K0609	11/06/23 13:49	11/07/23 23:18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		102 %			P3K0609	11/06/23 13:49	11/07/23 23:18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		106 %			P3K0609	11/06/23 13:49	11/07/23 23:18	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>18500</b>	284	mg/kg dry	10	[CALC]	11/06/23 13:49	11/07/23 23:18	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>52.2</b>	1.14	mg/kg dry	1	P3K0610	11/06/23 14:42	11/07/23 01:06	EPA 300.0	
<b>% Moisture</b>	<b>12.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**BS-4 (9')**  
**3K06015-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>2.76</b>	0.116	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:29	EPA 8021B	
<b>Toluene</b>	<b>53.4</b>	0.116	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:29	EPA 8021B	
<b>Ethylbenzene</b>	<b>25.5</b>	0.116	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:29	EPA 8021B	
<b>Xylene (p/m)</b>	<b>85.6</b>	0.233	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:29	EPA 8021B	
<b>Xylene (o)</b>	<b>30.3</b>	0.116	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 14:29	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>108 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 14:29</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>84.9 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 14:29</i>	<i>EPA 8021B</i>	
<b>Xylenes (total)</b>	<b>116</b>	0.233	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 14:29	EPA 8021B	
<b>Total BTEX</b>	<b>198</b>	0.116	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 14:29	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>7950</b>	291	mg/kg dry	10	P3K0609	11/06/23 13:49	11/07/23 23:42	TPH 8015M	
<b>&gt;C12-C28</b>	<b>11000</b>	291	mg/kg dry	10	P3K0609	11/06/23 13:49	11/07/23 23:42	TPH 8015M	
<b>&gt;C28-C35</b>	<b>1790</b>	291	mg/kg dry	10	P3K0609	11/06/23 13:49	11/07/23 23:42	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>112 %</i>		<i>70-130</i>		<i>P3K0609</i>	<i>11/06/23 13:49</i>	<i>11/07/23 23:42</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>108 %</i>		<i>70-130</i>		<i>P3K0609</i>	<i>11/06/23 13:49</i>	<i>11/07/23 23:42</i>	<i>TPH 8015M</i>	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>20800</b>	291	mg/kg dry	10	[CALC]	11/06/23 13:49	11/07/23 23:42	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>41.0</b>	1.16	mg/kg dry	1	P3K0610	11/06/23 14:42	11/07/23 01:20	EPA 300.0	
<b>% Moisture</b>	<b>14.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**BS-5 (9')**  
**3K06015-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>1.50</b>	0.112	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 15:42	EPA 8021B	
<b>Toluene</b>	<b>32.0</b>	0.112	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 15:42	EPA 8021B	
<b>Ethylbenzene</b>	<b>21.0</b>	0.112	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 15:42	EPA 8021B	
<b>Xylene (p/m)</b>	<b>75.1</b>	0.225	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 15:42	EPA 8021B	
<b>Xylene (o)</b>	<b>25.1</b>	0.112	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 15:42	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>86.1 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 15:42</i>	<i>EPA 8021B</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>110 %</i>		<i>80-120</i>		<i>P3K0709</i>	<i>11/07/23 09:12</i>	<i>11/10/23 15:42</i>	<i>EPA 8021B</i>	
<b>Xylenes (total)</b>	<b>100</b>	0.225	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 15:42	EPA 8021B	
<b>Total BTEX</b>	<b>155</b>	0.112	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 15:42	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>6940</b>	281	mg/kg dry	10	P3K0609	11/06/23 13:49	11/08/23 00:06	TPH 8015M	
<b>&gt;C12-C28</b>	<b>10500</b>	281	mg/kg dry	10	P3K0609	11/06/23 13:49	11/08/23 00:06	TPH 8015M	
<b>&gt;C28-C35</b>	<b>1750</b>	281	mg/kg dry	10	P3K0609	11/06/23 13:49	11/08/23 00:06	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>103 %</i>		<i>70-130</i>		<i>P3K0609</i>	<i>11/06/23 13:49</i>	<i>11/08/23 00:06</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>211 %</i>		<i>70-130</i>		<i>P3K0609</i>	<i>11/06/23 13:49</i>	<i>11/08/23 00:06</i>	<i>TPH 8015M</i>	<i>S-GC</i>
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>19200</b>	281	mg/kg dry	10	[CALC]	11/06/23 13:49	11/08/23 00:06	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>44.7</b>	1.12	mg/kg dry	1	P3K0610	11/06/23 14:42	11/07/23 01:34	EPA 300.0	
<b>% Moisture</b>	<b>11.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**BS-6 (9')**  
**3K06015-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>5.01</b>	0.118	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 16:07	EPA 8021B	
<b>Toluene</b>	<b>22.0</b>	0.118	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 16:07	EPA 8021B	
<b>Ethylbenzene</b>	<b>6.04</b>	0.118	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 16:07	EPA 8021B	
<b>Xylene (p/m)</b>	<b>44.4</b>	0.235	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 16:07	EPA 8021B	
<b>Xylene (o)</b>	<b>13.3</b>	0.118	mg/kg dry	100	P3K0709	11/07/23 09:12	11/10/23 16:07	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		83.5 %	80-120		P3K0709	11/07/23 09:12	11/10/23 16:07	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.6 %	80-120		P3K0709	11/07/23 09:12	11/10/23 16:07	EPA 8021B	
<b>Xylenes (total)</b>	<b>57.7</b>	0.235	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 16:07	EPA 8021B	
<b>Total BTEX</b>	<b>90.7</b>	0.118	mg/kg dry	100	[CALC]	11/07/23 09:12	11/10/23 16:07	EPA 8021B	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>749</b>	29.4	mg/kg dry	1	P3K0609	11/06/23 13:49	11/08/23 00:30	TPH 8015M	
<b>&gt;C12-C28</b>	<b>1260</b>	29.4	mg/kg dry	1	P3K0609	11/06/23 13:49	11/08/23 00:30	TPH 8015M	
<b>&gt;C28-C35</b>	<b>213</b>	29.4	mg/kg dry	1	P3K0609	11/06/23 13:49	11/08/23 00:30	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		112 %	70-130		P3K0609	11/06/23 13:49	11/08/23 00:30	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		126 %	70-130		P3K0609	11/06/23 13:49	11/08/23 00:30	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>2220</b>	29.4	mg/kg dry	1	[CALC]	11/06/23 13:49	11/08/23 00:30	calc	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>52.0</b>	1.18	mg/kg dry	1	P3K0610	11/06/23 14:42	11/07/23 01:49	EPA 300.0	
<b>% Moisture</b>	<b>15.0</b>	0.1	%	1	P3K0711	11/07/23 10:36	11/07/23 10:40	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P3K0709 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P3K0709-BLK1)**

Prepared & Analyzed: 11/07/23

Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			

**LCS (P3K0709-BS1)**

Prepared & Analyzed: 11/07/23

Benzene	0.0988	0.00100	mg/kg	0.100		98.8	80-120			
Toluene	0.0918	0.00100	"	0.100		91.8	80-120			
Ethylbenzene	0.0982	0.00100	"	0.100		98.2	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.7	80-120			
Xylene (o)	0.0884	0.00100	"	0.100		88.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.1	80-120			

**LCS Dup (P3K0709-BSD1)**

Prepared & Analyzed: 11/07/23

Benzene	0.113	0.00100	mg/kg	0.100		113	80-120	13.5	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	15.2	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	14.8	20	
Xylene (p/m)	0.224	0.00200	"	0.200		112	80-120	13.4	20	
Xylene (o)	0.0998	0.00100	"	0.100		99.8	80-120	12.1	20	
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	80-120			

**Calibration Blank (P3K0709-CCB1)**

Prepared & Analyzed: 11/07/23

Benzene	0.160		ug/kg							
Toluene	0.210		"							
Ethylbenzene	0.170		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.160		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Stephan Ansong Asante

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P3K0709 - \*\*\* DEFAULT PREP \*\*\***

Calibration Check (P3K0709-CCV1)				Prepared & Analyzed: 11/07/23						
Benzene	0.0967	0.00100	mg/kg	0.100		96.7	80-120			
Toluene	0.0904	0.00100	"	0.100		90.4	80-120			
Ethylbenzene	0.0934	0.00100	"	0.100		93.4	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.0906	0.00100	"	0.100		90.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.1	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P3K0608 - TX 1005**

**Blank (P3K0608-BLK1)**

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	90.1		"	100		90.1	70-130			
Surrogate: o-Terphenyl	57.7		"	50.0		115	70-130			

**LCS (P3K0608-BS1)**

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	975	25.0	mg/kg	1000		97.5	75-125			
>C12-C28	895	25.0	"	1000		89.5	75-125			
Surrogate: 1-Chlorooctane	81.9		"	100		81.9	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			

**LCS Dup (P3K0608-BSD1)**

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	969	25.0	mg/kg	1000		96.9	75-125	0.587	20	
>C12-C28	927	25.0	"	1000		92.7	75-125	3.53	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	56.3		"	50.0		113	70-130			

**Calibration Check (P3K0608-CCV1)**

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	532	25.0	mg/kg	500		106	85-115			
>C12-C28	512	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	97.6		"	100		97.6	70-130			
Surrogate: o-Terphenyl	51.7		"	50.0		103	70-130			

**Calibration Check (P3K0608-CCV2)**

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	513	25.0	mg/kg	500		103	85-115			
>C12-C28	502	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	97.6		"	100		97.6	70-130			
Surrogate: o-Terphenyl	50.8		"	50.0		102	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P3K0608 - TX 1005**

**Matrix Spike (P3K0608-MS1)**

Source: 3K06015-02

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	1160	26.0	mg/kg dry	1040	73.6	105	75-125			
>C12-C28	1170	26.0	"	1040	163	97.0	75-125			
Surrogate: 1-Chlorooctane	121		"	104		117	70-130			
Surrogate: o-Terphenyl	55.7		"	52.1		107	70-130			

**Matrix Spike Dup (P3K0608-MSD1)**

Source: 3K06015-02

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	1120	26.0	mg/kg dry	1040	73.6	101	75-125	3.75	20	
>C12-C28	1320	26.0	"	1040	163	111	75-125	13.3	20	
Surrogate: 1-Chlorooctane	133		"	104		128	70-130			
Surrogate: o-Terphenyl	53.5		"	52.1		103	70-130			

**Batch P3K0609 - TX 1005**

**Blank (P3K0609-BLK1)**

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.0		"	100		98.0	70-130			
Surrogate: o-Terphenyl	57.9		"	50.0		116	70-130			

**LCS (P3K0609-BS1)**

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	1060	25.0	mg/kg	1000		106	75-125			
>C12-C28	976	25.0	"	1000		97.6	75-125			
Surrogate: 1-Chlorooctane	91.8		"	100		91.8	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	70-130			

**LCS Dup (P3K0609-BSD1)**

Prepared: 11/06/23 Analyzed: 11/07/23

C6-C12	1020	25.0	mg/kg	1000		102	75-125	4.55	20	
>C12-C28	980	25.0	"	1000		98.0	75-125	0.423	20	
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	54.6		"	50.0		109	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P3K0609 - TX 1005</b>										
<b>Calibration Check (P3K0609-CCV1)</b>				Prepared: 11/06/23 Analyzed: 11/07/23						
C6-C12	555	25.0	mg/kg	500		111	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	54.6		"	50.0		109	70-130			
<b>Calibration Check (P3K0609-CCV2)</b>				Prepared: 11/06/23 Analyzed: 11/08/23						
C6-C12	534	25.0	mg/kg	500		107	85-115			
>C12-C28	528	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	53.7		"	50.0		107	70-130			
<b>Matrix Spike (P3K0609-MS1)</b>				Source: 3K06014-15		Prepared: 11/06/23 Analyzed: 11/08/23				
C6-C12	1140	28.7	mg/kg dry	1150	26.3	97.0	75-125			
>C12-C28	1080	28.7	"	1150	ND	93.6	75-125			
Surrogate: 1-Chlorooctane	131		"	115		114	70-130			
Surrogate: o-Terphenyl	67.2		"	57.5		117	70-130			
<b>Matrix Spike Dup (P3K0609-MSD1)</b>				Source: 3K06014-15		Prepared: 11/06/23 Analyzed: 11/08/23				
C6-C12	21000	28.7	mg/kg dry	1150	26.3	NR	75-125	180	20	S-GC
>C12-C28	1080	28.7	"	1150	ND	93.6	75-125	0.0642	20	
Surrogate: 1-Chlorooctane	136		"	115		119	70-130			
Surrogate: o-Terphenyl	62.8		"	57.5		109	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P3K0610 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P3K0610-BLK1)**

Prepared & Analyzed: 11/06/23

Chloride	ND	1.00	mg/kg
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**LCS (P3K0610-BS1)**

Prepared & Analyzed: 11/06/23

Chloride	18.5		mg/kg	20.0	92.3	90-110
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**LCS Dup (P3K0610-BSD1)**

Prepared: 11/06/23 Analyzed: 11/07/23

Chloride	18.2		mg/kg	20.0	90.9	90-110	1.52	10
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**Calibration Check (P3K0610-CCV1)**

Prepared & Analyzed: 11/06/23

Chloride	19.0		mg/kg	20.0	94.9	90-110
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**Calibration Check (P3K0610-CCV2)**

Prepared & Analyzed: 11/06/23

Chloride	19.4		mg/kg	20.0	96.9	90-110
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**Matrix Spike (P3K0610-MS1)**

Source: 3K03008-08

Prepared & Analyzed: 11/06/23

Chloride	103		mg/kg	100	7.78	95.3	80-120
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**Matrix Spike (P3K0610-MS2)**

Source: 3K06015-10

Prepared: 11/06/23 Analyzed: 11/07/23

Chloride	99.3		mg/kg	100	0.766	98.6	80-120
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**Matrix Spike Dup (P3K0610-MSD1)**

Source: 3K03008-08

Prepared & Analyzed: 11/06/23

Chloride	103		mg/kg	100	7.78	95.4	80-120	0.0892	20
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**Matrix Spike Dup (P3K0610-MSD2)**

Source: 3K06015-10

Prepared: 11/06/23 Analyzed: 11/07/23

Chloride	99.2		mg/kg	100	0.766	98.4	80-120	0.142	20
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**Batch P3K0711 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P3K0711-BLK1)**

Prepared & Analyzed: 11/07/23

% Moisture	ND	0.1	%
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Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Stephan Ansong Asante

General Chemistry Parameters by EPA / Standard Methods - Quality Control  
Permian Basin Environmental Lab, L.P.

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

Batch P3K0711 - \*\*\* DEFAULT PREP \*\*\*

Blank (P3K0711-BLK2)		Prepared & Analyzed: 11/07/23								
% Moisture	ND	0.1	%							
Duplicate (P3K0711-DUP1)		Source: 3K06014-09		Prepared & Analyzed: 11/07/23						
% Moisture	22.0	0.1	%		21.0			4.65	20	
Duplicate (P3K0711-DUP2)		Source: 3K06015-07		Prepared & Analyzed: 11/07/23						
% Moisture	11.0	0.1	%		12.0			8.70	20	
Duplicate (P3K0711-DUP3)		Source: 3K06017-03		Prepared & Analyzed: 11/07/23						
% Moisture	7.0	0.1	%		7.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 11/13/2023

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

**PBELAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L:

CH:

W:

Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Stephen Ansong Asante

Project Name: Red Hills Release

Company Name: GHD

Project #: 12626654

Company Address: 2135 S Loop 250 W

Project Loc: Jal, NM

City/State/Zip: Midland, TX, 79703

PO #:

Telephone No: 432-557-0215

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: *Mitchell Clemens*

e-mail: Stephen.Asante-Ansong@ghd.com

Mitchell.Clemens@ghd.com

(lab use only)

ORDER #: 3K00015

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers										Matrix										RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
								Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable	Specify Other	TPH: TX 1005	TX 1006	Clorides Method 300	BTEX 8021B/5030 or BTEX 8260						
1	RS-1 (0-9')	0	9	11/3/2023	16:00		2							X		S	X	X	X										
2	SW-1 (0-4')	0	4	11/3/2023	16:05		2							X		S	X	X	X										
3	SW-2 (0-4')	0	4	11/3/2023	16:10		2							X		S	X	X	X										
4	SW-3 (4-9')	4	9	11/3/2023	16:15		2							X		S	X	X	X										
5	SW-4 (4-9')	4	9	11/3/2023	16:20		2							X		S	X	X	X										
6	SW-5 (0-4')	0	4	11/3/2023	16:25		2							X		S	X	X	X										
7	SW-6 (0-9')	0	9	11/3/2023	16:30		2							X		S	X	X	X										
8	SW-7 (4-9')	4	9	11/3/2023	16:35		2							X		S	X	X	X										
9	BS-1 (4')		4	11/3/2023	16:40		2							X		S	X	X	X										
10	BS-2 (4')		4	11/3/2023	16:45		2							X		S	X	X	X										

Special Instructions:

Relinquished by: <i>Mitchell Clemens</i>	Date	Time	Received by:	Date	Time	<b>Laboratory Comments:</b> Sample Containers Intact? Y N VOCs Free of Headspace? Y N Labels on container(s) Y N Custody seals on container(s) Y N Custody seals on cooler(s) Y N Sample Hand Delivered by Sampler/Client Rep. ? Y N by Courier? UPS DHL FedEx Lone Star Temperature Upon Receipt: Received: 59 °C Thermometer: Adjusted: 59 °C Factor:
Relinquished by:	Date	Time	Received by:	Date	Time	
Relinquished by:	Date	Time	Received by PBEL: <i>Raula MLC</i>	Date: 11/06/23	Time: 11:49	



**PBELAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: \_\_\_\_\_

CH: \_\_\_\_\_

W: \_\_\_\_\_

Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Stephen Ansong Asante

Project Name: Red Hills Release

Company Name: GHD

Project #: 12626654

Company Address: 2135 S Loop 250 W

Project Loc: Jal, NM

City/State/Zip: Midland, TX, 79703

PO #: \_\_\_\_\_

Telephone No: 432-557-0215

Fax No: \_\_\_\_\_

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: *Mitchell Clemens*

e-mail: Stephen.Asante-Ansong@ghd.com

Mitchell.Clemens@ghd.com

(lab use only)

ORDER #: 3K06015

(lab use only)												1										Analyze For:										RUSH TAT (Pre-Schedule) 24, 48, 72 hrs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					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Relinquished by:	Date	Time	Received by:	Date	Time	
Relinquished by:	Date	Time	Received by PBEL: <i>Rana</i>	Date: 11/6/23	Time: 11:49	

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Stephan Ansong Asante  
GHD Services-Midland  
2135 S. Loop 250 West  
Midland, TX 79703

Project: Red Hills Release

Project Number: 12626654

Location: Jal, NM

Lab Order Number: 3L12026



**Current Certification**

Report Date: 01/04/24

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC-121223-12626654-CS-1	3L12026-01	Soil	12/12/23 11:10	12-12-2023 15:41

TCLP 8 RCRA Metals, RCI, analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:

[https://www.tceq.texas.gov/assets/public/compliance/compliance\\_support/qa/labs/als\\_svcs\\_houston.pdf](https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf)

NORM analysis were subcontracted to ARS International, Port Allen LA. Their report is attached to the email due to an incompatibility with our LIMS Reporting module.

Due to a Shipping department error, TCLP Benzene was not put on the Subcontract COC. This was discovered past the expiration date.

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

### WC-121223-12626654-CS-1

#### 3L12026-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

#### Permian Basin Environmental Lab, L.P.

#### Organics by GC

<b>Gasoline Range Organics</b>	<b>341</b>	26.3	mg/kg dry	1	P3L1503	12/15/23 10:05	12/20/23 15:40	EPA 8015M	
<b>Diesel Range Organics</b>	<b>2490</b>	26.3	mg/kg dry	1	P3L1503	12/15/23 10:05	12/20/23 15:40	EPA 8015M	
<b>Oil Range Organics</b>	<b>348</b>	26.3	mg/kg dry	1	P3L1503	12/15/23 10:05	12/20/23 15:40	EPA 8015M	
Surrogate: 1-Chlorooctane	102 %		70-130		P3L1503	12/15/23 10:05	12/20/23 15:40	EPA 8015M	
Surrogate: o-Terphenyl	98.2 %		70-130		P3L1503	12/15/23 10:05	12/20/23 15:40	EPA 8015M	

#### General Chemistry Parameters by EPA / Standard Methods

<b>Chloride</b>	<b>24.8</b>	1.05	mg/kg dry	1	P3L3007	12/30/23 15:00	01/02/24 20:48	EPA 300.0	
Reactive Cyanide	ND	100	ppm	1	P4A0310	12/22/23 15:26	12/22/23 15:26	SW846 9010B	SUB-13
Ignitability by Flashpoint	> 212	50.0	°F	1	P4A0310	12/19/23 15:00	12/19/23 15:00	ASTM D93-80	SUB-13
<b>pH</b>	<b>8.65</b>	0.10	pH Units	1	P4A0310	12/21/23 11:52	12/21/23 11:52	EPA 9045B	SUB-13
<b>Temp Deg C @ pH</b>	<b>21.40</b>		pH Units	1	P4A0310	12/21/23 11:52	12/21/23 11:52	EPA 9045B	SUB-13
<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P3L1307	12/13/23 10:35	12/13/23 10:43	ASTM D2216	
Reactive Sulfide	ND	100	ppm	1	P4A0310	12/22/23 15:22	12/22/23 15:22	SW846 9030B	SUB-13

#### Naturally Occurring Radioactive Material (N.O.R.M.)

Beryllium-7	ND	1.42	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
Bismuth-212	ND	0.73	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Bismuth-214</b>	<b>0.87</b>	0.12	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Potassium-40</b>	<b>4.32</b>	2.34	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
Lead 210	ND	1.98	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Lead-214</b>	<b>0.63</b>	0.27	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Radium 226</b>	<b>2.60</b>	2.59	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
Radium 228	ND	0.79	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
Scandium-46	ND	0.20	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Thorium-228</b>	<b>0.26</b>	0.18	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Thallium-208</b>	<b>0.18</b>	0.11	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Uranium 235</b>	<b>39.0</b>	0.71	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
Uranium-238	ND	2.01	pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Total Gamma</b>	<b>11.1</b>		pCi/g	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Beryllium-7 Analysis Error</b>	<b>1.14</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Bismuth-212 Analysis Error</b>	<b>0.65</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Bismuth-214 Analysis Error</b>	<b>0.23</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Potassium-40 Analysis Error</b>	<b>2.20</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Lead 210 Analysis Error</b>	<b>1.40</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Lead-214 Analysis Error</b>	<b>0.23</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Radium 226 Analysis Error</b>	<b>2.02</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Radium 228 Analysis Error</b>	<b>0.69</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Scandium-46 Analysis Error</b>	<b>0.19</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Thorium-228 Analysis error</b>	<b>0.13</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**WC-121223-12626654-CS-1****3L12026-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.****Naturally Occurring Radioactive Material (N.O.R.M.)**

<b>Thallium-208 Analysis Error</b>	<b>0.10</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Uranium-235 Analysis error</b>	<b>0.52</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12
<b>Uranium-238 Analysis Error</b>	<b>1.44</b>		+/- 2 Sigma	1	P3L1810	12/15/23 15:28	12/18/23 11:02	EPA 901.1	SUB12

**TCLP Metals 1311 by EPA / Standard Methods**

Mercury	ND	0.000200	mg/L	1	P4A0310	12/22/23 15:00	12/22/23 15:00	EPA 7470A	SUB-13
Arsenic	ND	0.0500	mg/L	1	P4A0310	12/22/23 15:00	01/04/24 14:58	EPA 6020A	SUB-13
<b>Barium</b>	<b>0.584</b>	0.200	mg/L	1	P4A0310	12/22/23 15:00	01/04/24 14:58	EPA 6020A	SUB-13
Cadmium	ND	0.0500	mg/L	1	P4A0310	12/22/23 15:00	01/04/24 14:58	EPA 6020A	SUB-13
Chromium	ND	0.0500	mg/L	1	P4A0310	12/22/23 15:00	01/04/24 14:58	EPA 6020A	SUB-13
Lead	ND	0.0500	mg/L	1	P4A0310	12/22/23 15:00	01/04/24 14:58	EPA 6020A	SUB-13
Selenium	ND	0.0500	mg/L	1	P4A0310	12/22/23 15:00	01/04/24 14:58	EPA 6020A	SUB-13
Silver	ND	0.0500	mg/L	1	P4A0310	12/22/23 15:00	01/04/24 14:58	EPA 6020A	SUB-13

**Physical Parameters by APHA/ASTM/EPA Methods**

Free Liquid	PASS		N/A	1	P4A0310	12/13/23 08:00	12/13/23 05:15	EPA 9095	SUB-13
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

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

**Batch P3L1503 - TX 1005**

**Blank (P3L1503-BLK1)**

Prepared: 12/15/23 Analyzed: 12/16/23

Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Oil Range Organics	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.1		"	100		98.1	70-130			
Surrogate: o-Terphenyl	58.6		"	50.0		117	70-130			

**LCS (P3L1503-BS1)**

Prepared: 12/15/23 Analyzed: 12/16/23

Gasoline Range Organics	757	25.0	mg/kg				75-125			
Diesel Range Organics	758	25.0	"	1000		75.8	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	54.6		"	50.0		109	70-130			

**LCS Dup (P3L1503-BSD1)**

Prepared: 12/15/23 Analyzed: 12/16/23

Gasoline Range Organics	902	25.0	mg/kg				75-125		20	
Diesel Range Organics	866	25.0	"	1000		86.6	75-125	13.4	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			

**Calibration Check (P3L1503-CCV1)**

Prepared: 12/15/23 Analyzed: 12/16/23

Gasoline Range Organics	466	25.0	mg/kg	500		93.2	85-115			
Diesel Range Organics	495	25.0	"	500		99.0	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	85-115			
Surrogate: o-Terphenyl	59.4		"	50.0		119	85-115			

**Calibration Check (P3L1503-CCV2)**

Prepared: 12/15/23 Analyzed: 12/16/23

Gasoline Range Organics	507	25.0	mg/kg	500		101	85-115			
Diesel Range Organics	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	85-115			
Surrogate: o-Terphenyl	63.1		"	50.0		126	85-115			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Stephan Ansong Asante

Organics by GC - Quality Control  
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P3L1503 - TX 1005

Calibration Check (P3L1503-CCV3)	Prepared: 12/15/23 Analyzed: 12/16/23									
Gasoline Range Organics	484	25.0	mg/kg	500		96.8	85-115			
Diesel Range Organics	463	25.0	"	500		92.6	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	85-115			
Surrogate: o-Terphenyl	62.3		"	50.0		125	85-115			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P3L1307 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P3L1307-BLK1)</b>	Prepared & Analyzed: 12/13/23									
% Moisture	ND	0.1	%							
<b>Blank (P3L1307-BLK2)</b>	Prepared & Analyzed: 12/13/23									
% Moisture	ND	0.1	%							
<b>Blank (P3L1307-BLK3)</b>	Prepared & Analyzed: 12/13/23									
% Moisture	ND	0.1	%							
<b>Blank (P3L1307-BLK4)</b>	Prepared & Analyzed: 12/13/23									
% Moisture	ND	0.1	%							
<b>Duplicate (P3L1307-DUP1)</b>	<b>Source: 3L11012-02</b>		Prepared & Analyzed: 12/13/23							
% Moisture	3.0	0.1	%		3.0			0.00	20	
<b>Duplicate (P3L1307-DUP2)</b>	<b>Source: 3L11013-04</b>		Prepared & Analyzed: 12/13/23							
% Moisture	2.0	0.1	%		3.0			40.0	20	R3
<b>Duplicate (P3L1307-DUP3)</b>	<b>Source: 3L12008-02</b>		Prepared & Analyzed: 12/13/23							
% Moisture	2.0	0.1	%		3.0			40.0	20	R3
<b>Duplicate (P3L1307-DUP4)</b>	<b>Source: 3L12016-01</b>		Prepared & Analyzed: 12/13/23							
% Moisture	12.0	0.1	%		12.0			0.00	20	
<b>Duplicate (P3L1307-DUP5)</b>	<b>Source: 3L12022-03</b>		Prepared & Analyzed: 12/13/23							
% Moisture	5.0	0.1	%		5.0			0.00	20	
<b>Duplicate (P3L1307-DUP6)</b>	<b>Source: 3L12024-04</b>		Prepared & Analyzed: 12/13/23							
% Moisture	3.0	0.1	%		3.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P3L3007 - *** DEFAULT PREP ***</b>										
<b>Blank (P3L3007-BLK1)</b>				Prepared: 12/30/23 Analyzed: 01/02/24						
Chloride	ND	1.00	mg/kg							
<b>LCS (P3L3007-BS1)</b>				Prepared: 12/30/23 Analyzed: 01/02/24						
Chloride	20.5		mg/kg	20.0		103	90-110			
<b>LCS Dup (P3L3007-BSD1)</b>				Prepared: 12/30/23 Analyzed: 01/02/24						
Chloride	20.9		mg/kg	20.0		104	90-110	1.72	10	
<b>Calibration Check (P3L3007-CCV1)</b>				Prepared: 12/30/23 Analyzed: 01/02/24						
Chloride	20.7		mg/kg	20.0		104	90-110			
<b>Calibration Check (P3L3007-CCV2)</b>				Prepared: 12/30/23 Analyzed: 01/02/24						
Chloride	21.3		mg/kg	20.0		107	90-110			
<b>Matrix Spike (P3L3007-MS1)</b>				<b>Source: 3L12023-03</b>		Prepared: 12/30/23 Analyzed: 01/02/24				
Chloride	109		mg/kg	100	6.17	103	80-120			
<b>Matrix Spike (P3L3007-MS2)</b>				<b>Source: 3L12022-05</b>		Prepared: 12/30/23 Analyzed: 01/02/24				
Chloride	117		mg/kg	100	10.7	106	80-120			
<b>Matrix Spike Dup (P3L3007-MSD1)</b>				<b>Source: 3L12023-03</b>		Prepared: 12/30/23 Analyzed: 01/02/24				
Chloride	109		mg/kg	100	6.17	103	80-120	0.0887	20	
<b>Matrix Spike Dup (P3L3007-MSD2)</b>				<b>Source: 3L12022-05</b>		Prepared: 12/30/23 Analyzed: 01/02/24				
Chloride	116		mg/kg	100	10.7	106	80-120	0.282	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

### Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

SUB12 Analysis was subcontracted to ARS Port Allen Lousiana.

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

1/4/2024

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Stephan Ansong Asante

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.



### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701**

Phone: 432-686-7235  
PBELAB SUB COC V2

Project Manager: Brent Barron

**Project Name:** SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

**Report Format:** ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: [brentbarron@pbelab.com](mailto:brentbarron@pbelab.com)

ORDER #:																																			
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers								Matrix		RCI	Hg tcip cva 7470	METALS, RCRA 7 TCLP, ICP MS	Ph												24 Hour Rush	STANDARD	
								ICE	HNO <sub>3</sub> 250 poly 1	HCl 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE 250 POLY	NONE 3 AMBER VOAA VIALS	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other																			
	3L12026_01			12/12/2023	11:10		1	X									S	X	X	X	X													X	

Relinquished by:

Brent Barron

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

Y

N

VOCs Free of Headspace?

Y

N

Labels on container(s)

Y

N

Custody seals on container(s)

Y

N

Custody seals on cooler(s)

Y

N

Sample Hand Delivered

Y

N

by Sampler/Client Rep. ?

Y

N

by Courier?

UPS

DHL

FedEx

Lone Star

Temperature Upon Receipt:

Received: °C

Adjusted: °C Factor



### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701**

Phone: 432-686-7235  
PBELAB SUB COC V2

Project Manager: Brent Barron

**Project Name:** SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

**PO #:**

Telephone No: 432-661-4184

Fax No:

**Report Format:** ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: [brentbarron@pbelab.com](mailto:brentbarron@pbelab.com)

ORDER #:																															
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix			NORM PACKAGE											24 Hour Rush	STANDARD	
								ICE	HNO <sub>3</sub> 250 poly 1	HCl 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE 250 POLY	NONE 3 AMBER VOAA VIALS	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid														NP=Non-Potable Specify Other
	3L12026-01			12/12/2023	11:10		1	X									S	X													X

Relinquished by:

Brent Barron

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

Y

N

VOCs Free of Headspace?

Y

N

Labels on container(s)

Y

N

Custody seals on container(s)

Y

N

Custody seals on cooler(s)

Y

N

Sample Hand Delivered

Y

N

by Sampler/Client Rep. ?

Y

N

by Courier?

UPS

DHL

FedEx

Lone Star

Temperature Upon Receipt:

Received: °C

Adjusted: °C Factor



10450 Stancliff Rd. Suite 210  
Houston, TX 77099  
T: +1 281 530 5656  
F: +1 281 530 5887

December 28, 2023

Brent Barron  
Permian Basin Environmental Lab, LP  
10014 SCR 1213  
Midland, TX 79706

Work Order: **HS23121123**

Laboratory Results for: **3L12026**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Dec 15, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads 'Anna M. Kinchen'.

Generated By: DAYNA.FISHER

Anna Kinchen  
Project Manager

ALS Houston, US

Date: 28-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L12026  
**Work Order:** HS23121123

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23121123-01	3L12026-01	Soil		12-Dec-2023 11:10	15-Dec-2023 09:35	<input type="checkbox"/>

**ALS Houston, US**

Date: 28-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L12026  
**Work Order:** HS23121123

**CASE NARRATIVE****Work Order Comments**

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.  
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

**Metals by Method SW7470A****Batch ID: 205389**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**Metals by Method SW1311/6020****Batch ID: 205270**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SW7.3.3.2****Batch ID: R454996**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SW7.3.4.2****Batch ID: R454994**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SW9045D****Batch ID: R454842**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method ASTM D92-12b****Batch ID: R454615**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

## ALS Houston, US

Date: 28-Dec-23

Client: Permian Basin Environmental Lab, LP  
 Project: 3L12026  
 Sample ID: 3L12026-01  
 Collection Date: 12-Dec-2023 11:10

## ANALYTICAL REPORT

WorkOrder:HS23121123  
 Lab ID:HS23121123-01  
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TCLP METALS BY SW6020A</b>						
	<b>Method:SW1311/6020</b>		Leache:SW1311 / 23-Dec-2023	Prep:SW3010A / 26-Dec-2023		Analyst: MSC
Arsenic	ND		0.0500	mg/L	1	27-Dec-2023 01:54
Barium	0.584		0.200	mg/L	1	27-Dec-2023 01:54
Cadmium	ND		0.0500	mg/L	1	27-Dec-2023 01:54
Chromium	ND		0.0500	mg/L	1	27-Dec-2023 01:54
Lead	ND		0.0500	mg/L	1	27-Dec-2023 01:54
Selenium	ND		0.0500	mg/L	1	27-Dec-2023 01:54
Silver	ND		0.0500	mg/L	1	27-Dec-2023 01:54
<b>TCLP MERCURY BY SW7470A</b>						
	<b>Method:SW7470A</b>		Leache:SW1311 / 23-Dec-2023	Prep:SW7470A / 28-Dec-2023		Analyst: JS
Mercury	ND		0.000200	mg/L	1	28-Dec-2023 15:49
<b>FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B</b>						
	<b>Method:ASTM D92-12b</b>					Analyst: TH
Flash Point	> 212	n	50.0	°F	1	19-Dec-2023 15:00
<b>REACTIVE CYANIDE</b>						
	<b>Method:SW7.3.3.2</b>					Analyst: MZD
Reactive Cyanide	ND	n	100	mg/Kg	1	22-Dec-2023 15:26
<b>REACTIVE SULFIDE</b>						
	<b>Method:SW7.3.4.2</b>					Analyst: MZD
Reactive Sulfide	ND	n	100	mg/Kg	1	22-Dec-2023 15:22
<b>PH SOIL BY SW9045D</b>						
	<b>Method:SW9045D</b>					Analyst: MR
pH	8.65	H	0.100	pH Units	1	21-Dec-2023 11:52
Temp Deg C @pH	21.4	H	0	°C	1	21-Dec-2023 11:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 28-Dec-23

## Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 3L12026

WorkOrder: HS23121123

**Batch ID:** 205215 **Start Date:** 22 Dec 2023 15:00 **End Date:** 22 Dec 2023 15:00**Method:** TCLP MERCURY EXTRACTION BY SW1311 **Prep Code:** 1311LHG EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23121123-01		75 (grams)	1500 (mL)	20	8-oz glass, Neat

**Batch ID:** 205217 **Start Date:** 22 Dec 2023 15:00 **End Date:** 22 Dec 2023 15:00**Method:** TCLP METALS EXTRACTION BY SW1311 **Prep Code:** 1311LM EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23121123-01		100 (grams)	2000 (mL)	20	8-oz glass, Neat

**Batch ID:** 205270 **Start Date:** 26 Dec 2023 09:30 **End Date:** 26 Dec 2023 09:30**Method:** TCLP LEACHATE DIGESTION BY SW3010A **Prep Code:** 3010A\_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23121123-01		1 (mL)	10 (mL)	10	8-oz glass, Neat

**Batch ID:** 205389 **Start Date:** 28 Dec 2023 09:00 **End Date:** 28 Dec 2023 09:00**Method:** MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311\_HGPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23121123-01		10 (mL)	10 (mL)	1	8-oz glass, Neat

ALS Houston, US

Date: 28-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L12026  
**WorkOrder:** HS23121123

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 205270 ( 0 )		<b>Test Name :</b> TCLP METALS BY SW6020A			<b>Matrix:</b> Soil	
HS23121123-01	3L12026-01	12 Dec 2023 11:10	23 Dec 2023 08:00	26 Dec 2023 09:30	27 Dec 2023 01:54	1
<b>Batch ID:</b> 205389 ( 0 )		<b>Test Name :</b> TCLP MERCURY BY SW7470A			<b>Matrix:</b> Soil	
HS23121123-01	3L12026-01	12 Dec 2023 11:10	23 Dec 2023 08:00	28 Dec 2023 09:00	28 Dec 2023 15:49	1
<b>Batch ID:</b> R454615 ( 0 )		<b>Test Name :</b> FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			<b>Matrix:</b> Soil	
HS23121123-01	3L12026-01	12 Dec 2023 11:10			19 Dec 2023 15:00	1
<b>Batch ID:</b> R454842 ( 0 )		<b>Test Name :</b> PH SOIL BY SW9045D			<b>Matrix:</b> Soil	
HS23121123-01	3L12026-01	12 Dec 2023 11:10			21 Dec 2023 11:52	1
<b>Batch ID:</b> R454994 ( 0 )		<b>Test Name :</b> REACTIVE SULFIDE			<b>Matrix:</b> Soil	
HS23121123-01	3L12026-01	12 Dec 2023 11:10			22 Dec 2023 15:22	1
<b>Batch ID:</b> R454996 ( 0 )		<b>Test Name :</b> REACTIVE CYANIDE			<b>Matrix:</b> Soil	
HS23121123-01	3L12026-01	12 Dec 2023 11:10			22 Dec 2023 15:26	1



## ALS Houston, US

Date: 28-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L12026  
**WorkOrder:** HS23121123

## QC BATCH REPORT

Batch ID: 205270 ( 0 )		Instrument: ICPMS07		Method: TCLP METALS BY SW6020A					
<b>MBLK</b>	Sample ID: <b>MBLKT2-205219</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Dec-2023 00:55</b>					
Client ID:	Run ID: <b>ICPMS07_455107</b>		SeqNo: <b>7750962</b>		PrepDate: <b>26-Dec-2023</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

<b>MBLK</b>	Sample ID: <b>MBLKT1-205217</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Dec-2023 00:53</b>					
Client ID:	Run ID: <b>ICPMS07_455107</b>		SeqNo: <b>7750961</b>		PrepDate: <b>26-Dec-2023</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

<b>MBLK</b>	Sample ID: <b>MBLK-205270</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Dec-2023 00:51</b>					
Client ID:	Run ID: <b>ICPMS07_455107</b>		SeqNo: <b>7750960</b>		PrepDate: <b>26-Dec-2023</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.00500
Barium	ND	0.0200
Cadmium	ND	0.00500
Chromium	ND	0.00500
Lead	ND	0.00500
Selenium	ND	0.00500
Silver	ND	0.00500

## ALS Houston, US

Date: 28-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L12026  
**WorkOrder:** HS23121123

## QC BATCH REPORT

Batch ID: 205270 ( 0 )		Instrument: ICPMS07		Method: TCLP METALS BY SW6020A					
<b>LCS</b>		Sample ID: LCS-205270		Units: mg/L		Analysis Date: 27-Dec-2023 00:58			
Client ID:		Run ID: ICPMS07_455107		SeqNo: 7750963		PrepDate: 26-Dec-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.04681	0.00500	0.05	0	93.6	80 - 120			
Barium	0.04707	0.0200	0.05	0	94.1	80 - 120			
Cadmium	0.04664	0.00500	0.05	0	93.3	80 - 120			
Chromium	0.04572	0.00500	0.05	0	91.4	80 - 120			
Lead	0.04743	0.00500	0.05	0	94.9	80 - 120			
Selenium	0.04657	0.00500	0.05	0	93.1	80 - 120			
Silver	0.04524	0.00500	0.05	0	90.5	80 - 120			

<b>MS</b>		Sample ID: HS23120596-04MS		Units: mg/L		Analysis Date: 27-Dec-2023 01:05			
Client ID:		Run ID: ICPMS07_455107		SeqNo: 7750936		PrepDate: 26-Dec-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.4356	0.0500	0.5	0.00015	87.1	80 - 120			
Barium	0.6379	0.200	0.5	0.1902	89.5	80 - 120			
Cadmium	0.4604	0.0500	0.5	0.01746	88.6	80 - 120			
Chromium	0.4266	0.0500	0.5	0.0046	84.4	80 - 120			
Lead	0.4361	0.0500	0.5	0.00352	86.5	80 - 120			
Selenium	0.4405	0.0500	0.5	0.00121	87.9	80 - 120			
Silver	0.421	0.0500	0.5	0.00048	84.1	80 - 120			

<b>MSD</b>		Sample ID: HS23120596-04MSD		Units: mg/L		Analysis Date: 27-Dec-2023 01:07			
Client ID:		Run ID: ICPMS07_455107		SeqNo: 7750937		PrepDate: 26-Dec-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.4892	0.0500	0.5	0.00015	97.8	80 - 120	0.4356	11.6	20
Barium	0.694	0.200	0.5	0.1902	101	80 - 120	0.6379	8.44	20
Cadmium	0.4958	0.0500	0.5	0.01746	95.7	80 - 120	0.4604	7.41	20
Chromium	0.4701	0.0500	0.5	0.0046	93.1	80 - 120	0.4266	9.71	20
Lead	0.4914	0.0500	0.5	0.00352	97.6	80 - 120	0.4361	11.9	20
Selenium	0.486	0.0500	0.5	0.00121	97.0	80 - 120	0.4405	9.83	20
Silver	0.4529	0.0500	0.5	0.00048	90.5	80 - 120	0.421	7.3	20

## ALS Houston, US

Date: 28-Dec-23

Client: Permian Basin Environmental Lab, LP

Project: 3L12026

WorkOrder: HS23121123

## QC BATCH REPORT

Batch ID: 205270 ( 0 )		Instrument: ICPMS07		Method: TCLP METALS BY SW6020A					
<b>PDS</b>		Sample ID: HS23120596-04PDS		Units: mg/L		Analysis Date: 27-Dec-2023 01:10			
Client ID:		Run ID: ICPMS07_455107		SeqNo: 7750938		PrepDate: 26-Dec-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.9522	0.0500	1	0.00015	95.2	75 - 125			
Barium	1.163	0.200	1	0.1902	97.3	75 - 125			
Cadmium	0.9718	0.0500	1	0.01746	95.4	75 - 125			
Chromium	0.9149	0.0500	1	0.0046	91.0	75 - 125			
Lead	0.9574	0.0500	1	0.00352	95.4	75 - 125			
Selenium	0.956	0.0500	1	0.00121	95.5	75 - 125			
Silver	0.9601	0.0500	1	0.00048	96.0	75 - 125			

<b>SD</b>		Sample ID: HS23120596-04SD		Units: mg/L		Analysis Date: 27-Dec-2023 01:03			
Client ID:		Run ID: ICPMS07_455107		SeqNo: 7750935		PrepDate: 26-Dec-2023		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Arsenic	ND	0.250					0.00015	0	10
Barium	0.1962	1.00					0.1902	0	10 J
Cadmium	0.01555	0.250					0.01746	0	10 J
Chromium	ND	0.250					0.0046	0	10
Lead	ND	0.250					0.00352	0	10
Selenium	ND	0.250					0.00121	0	10
Silver	ND	0.250					0.00048	0	10

The following samples were analyzed in this batch: HS23121123-01

## ALS Houston, US

Date: 28-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L12026  
**WorkOrder:** HS23121123

## QC BATCH REPORT

Batch ID: 205389 ( 0 )		Instrument: HG04		Method: TCLP MERCURY BY SW7470A					
<b>MBLK</b>	Sample ID: <b>MBLKT2-205216</b>	Units: <b>mg/L</b>		Analysis Date: <b>28-Dec-2023 15:11</b>					
Client ID:	Run ID: <b>HG04_455352</b>	SeqNo: <b>7755003</b>		PrepDate: <b>28-Dec-2023</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
<b>MBLK</b>	Sample ID: <b>MBLKT3-205235</b>	Units: <b>mg/L</b>		Analysis Date: <b>28-Dec-2023 15:12</b>					
Client ID:	Run ID: <b>HG04_455352</b>	SeqNo: <b>7755004</b>		PrepDate: <b>28-Dec-2023</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
<b>MBLK</b>	Sample ID: <b>MBLKT1-205215</b>	Units: <b>mg/L</b>		Analysis Date: <b>28-Dec-2023 15:09</b>					
Client ID:	Run ID: <b>HG04_455352</b>	SeqNo: <b>7755002</b>		PrepDate: <b>28-Dec-2023</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
<b>MBLK</b>	Sample ID: <b>MBLK-205389</b>	Units: <b>mg/L</b>		Analysis Date: <b>28-Dec-2023 15:06</b>					
Client ID:	Run ID: <b>HG04_455352</b>	SeqNo: <b>7755000</b>		PrepDate: <b>28-Dec-2023</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
<b>LCS</b>	Sample ID: <b>LCS-205389</b>	Units: <b>mg/L</b>		Analysis Date: <b>28-Dec-2023 15:07</b>					
Client ID:	Run ID: <b>HG04_455352</b>	SeqNo: <b>7755001</b>		PrepDate: <b>28-Dec-2023</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.00485	0.000200	0.005	0	97.0	80 - 120			
<b>MS</b>	Sample ID: <b>HS23121453-05MS</b>	Units: <b>mg/L</b>		Analysis Date: <b>28-Dec-2023 16:07</b>					
Client ID:	Run ID: <b>HG04_455352</b>	SeqNo: <b>7755027</b>		PrepDate: <b>28-Dec-2023</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.00498	0.000200	0.005	0.000002	99.6	75 - 125			

ALS Houston, US

Date: 28-Dec-23

Client: Permian Basin Environmental Lab, LP

Project: 3L12026

WorkOrder: HS23121123

QC BATCH REPORT

Batch ID: 205389 ( 0 )		Instrument: HG04		Method: TCLP MERCURY BY SW7470A					
MSD	Sample ID: HS23121453-05MSD	Units: mg/L		Analysis Date: 28-Dec-2023 16:19					
Client ID:	Run ID: HG04_455352		SeqNo: 7755030		PrepDate: 28-Dec-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Mercury	0.00526	0.000200	0.005	0.000002	105	75 - 125	0.00498	5.47	20
The following samples were analyzed in this batch: HS23121123-01									

ALS Houston, US

Date: 28-Dec-23

Client:

Permian Basin Environmental Lab, LP

Project:

3L12026

WorkOrder:

HS23121123

QC BATCH REPORT

Batch ID: R454615 ( 0 )		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B					
DUP	Sample ID: HS23120907-01DUP		Units: °F		Analysis Date: 19-Dec-2023 15:00				
Client ID:	Run ID: WetChem_HS_454615		SeqNo: 7737811		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Flash Point	> 212	50.0					0	0	30
The following samples were analyzed in this batch:									
HS23121123-01									

ALS Houston, US

Date: 28-Dec-23

Client:

Permian Basin Environmental Lab, LP

Project:

3L12026

WorkOrder:

HS23121123

QC BATCH REPORT

Batch ID: R454842 ( 0 )		Instrument: WetChem_HS		Method: PH SOIL BY SW9045D					
DUP	Sample ID: HS23121114-05DUP		Units: pH Units		Analysis Date: 21-Dec-2023 11:51				
Client ID:	Run ID: WetChem_HS_454842		SeqNo: 7743030		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
pH	5.59	0.100					6.09	8.56	10
Temp Deg C @pH	21.4	0					21.3	0.468	10
The following samples were analyzed in this batch: HS23121123-01									



## ALS Houston, US

Date: 28-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L12026  
**WorkOrder:** HS23121123

## QC BATCH REPORT

Batch ID: R454994 ( 0 )		Instrument: WetChem_HS		Method: REACTIVE SULFIDE					
<b>MBLK</b>	Sample ID: MBLK-R454994	Units: mg/Kg		Analysis Date: 22-Dec-2023 15:22					
Client ID:	Run ID: WetChem_HS_454994		SeqNo: 7746605		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	ND	100							

<b>LCS</b>	Sample ID: LCS-R454994	Units: mg/Kg		Analysis Date: 22-Dec-2023 15:22					
Client ID:	Run ID: WetChem_HS_454994		SeqNo: 7746604		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	69.6	100	100	0	69.6	20 - 120			J

<b>MS</b>	Sample ID: HS23120993-01MS	Units: mg/Kg		Analysis Date: 22-Dec-2023 15:22					
Client ID:	Run ID: WetChem_HS_454994		SeqNo: 7746607		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	65.6	100	100	-2.4	68.0	20 - 120			J

The following samples were analyzed in this batch: HS23121123-01

## ALS Houston, US

Date: 28-Dec-23

Client: Permian Basin Environmental Lab, LP

Project: 3L12026

WorkOrder: HS23121123

## QC BATCH REPORT

Batch ID: R454996 ( 0 )		Instrument: UV-2450		Method: REACTIVE CYANIDE					
<b>MBLK</b>	Sample ID: <b>MBLK-R454996</b>	Units: <b>mg/Kg</b>		Analysis Date: <b>22-Dec-2023 15:26</b>					
Client ID:	Run ID: <b>UV-2450_454996</b>	SeqNo: <b>7746630</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	ND	100							
<b>LCS</b>	Sample ID: <b>LCS-R454996</b>	Units: <b>mg/Kg</b>		Analysis Date: <b>22-Dec-2023 15:26</b>					
Client ID:	Run ID: <b>UV-2450_454996</b>	SeqNo: <b>7746629</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.63	100	10	0	6.30	5 - 100			J
<b>MS</b>	Sample ID: <b>HS23120993-01MS</b>	Units: <b>mg/Kg</b>		Analysis Date: <b>22-Dec-2023 15:26</b>					
Client ID:	Run ID: <b>UV-2450_454996</b>	SeqNo: <b>7746634</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.7	100	10	0	7.00	5 - 100			J
The following samples were analyzed in this batch: HS23121123-01									

**ALS Houston, US**

Date: 28-Dec-23

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 3L12026  
**WorkOrder:** HS23121123

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

<b>Acronym</b>	<b>Description</b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<b>Unit Reported</b>	<b>Description</b>
Date	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

ALS Houston, US

Date: 28-Dec-23

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**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

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Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

## ALS Houston, US

Date: 28-Dec-23

## Sample Receipt Checklist

Work Order ID: HS23121123

Date/Time Received: 15-Dec-2023 09:35

Client Name: Permian Basin Lab

Received by: Paresh M. Giga

Completed By: /S/ Corey Grandits	16-Dec-2023 13:57	Reviewed by: /S/ Anna Kinchen	19-Dec-2023 15:20
eSignature	Date/Time	eSignature	Date/Time

Matrices: S

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	1 Page(s)
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samplers name present on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	1.8UC/1.7C IR31		
Cooler(s)/Kit(s):	Red		
Date/Time sample(s) sent to storage:	12/16/23		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:




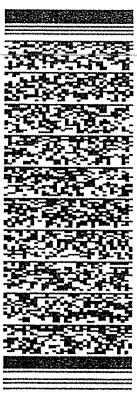
e-mail: [brentbarron@pbelab.com](mailto:brentbarron@pbelab.com)

Cl-0.2

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MIDLAND TX 79701  
UNITED STATES US

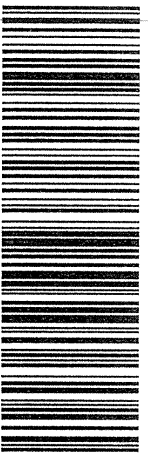
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**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Mitchell Clemens  
GHD Services-Midland  
2135 S. Loop 250 West  
Midland, TX 79703

Project: Red Hills Release

Project Number: 12626654

Location: Lea

Lab Order Number: 4C28013



**Current Certification**

Report Date: 04/09/24



GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 (10')	4C28013-01	Soil	03/27/24 13:04	03-28-2024 16:50
SB-1 (12')	4C28013-02	Soil	03/27/24 13:08	03-28-2024 16:50
SB-1 (14')	4C28013-03	Soil	03/27/24 13:12	03-28-2024 16:50
SB-1 (16')	4C28013-04	Soil	03/27/24 13:16	03-28-2024 16:50
SB-1 (18')	4C28013-05	Soil	03/27/24 13:20	03-28-2024 16:50
SB-1 (20')	4C28013-06	Soil	03/27/24 13:24	03-28-2024 16:50
SB-1 (25')	4C28013-07	Soil	03/27/24 13:28	03-28-2024 16:50
SB-1 (30')	4C28013-08	Soil	03/27/24 13:32	03-28-2024 16:50
SB-1 (35')	4C28013-09	Soil	03/27/24 13:36	03-28-2024 16:50
SB-1 (40')	4C28013-10	Soil	03/27/24 13:40	03-28-2024 16:50
SB-1 (45')	4C28013-11	Soil	03/27/24 13:44	03-28-2024 16:50
SB-1 (50')	4C28013-12	Soil	03/27/24 13:48	03-28-2024 16:50
SB-1 (55')	4C28013-13	Soil	03/27/24 13:52	03-28-2024 16:50
SB-1 (60')	4C28013-14	Soil	03/27/24 13:56	03-28-2024 16:50
SB-1 (65')	4C28013-15	Soil	03/27/24 14:00	03-28-2024 16:50
SB-1 (70')	4C28013-16	Soil	03/27/24 14:04	03-28-2024 16:50
SB-2A (2')	4C28013-17	Soil	03/27/24 10:38	03-28-2024 16:50
SB-2A (4')	4C28013-18	Soil	03/27/24 10:42	03-28-2024 16:50
SB-2A (6')	4C28013-19	Soil	03/27/24 10:46	03-28-2024 16:50
SB-2A (8')	4C28013-20	Soil	03/27/24 10:50	03-28-2024 16:50
SB-2A (10')	4C28013-21	Soil	03/27/24 10:54	03-28-2024 16:50
SB-2A (12')	4C28013-22	Soil	03/27/24 10:58	03-28-2024 16:50
SB-2A (14')SB-2A (14')	4C28013-23	Soil	03/27/24 11:02	03-28-2024 16:50
SB-2A (16')	4C28013-24	Soil	03/27/24 11:06	03-28-2024 16:50
SB-2A (18')	4C28013-25	Soil	03/27/24 11:10	03-28-2024 16:50
SB-2A (20')	4C28013-26	Soil	03/27/24 11:14	03-28-2024 16:50
SB-3A (2')	4C28013-27	Soil	03/27/24 10:00	03-28-2024 16:50
SB-3A (4')	4C28013-28	Soil	03/27/24 10:04	03-28-2024 16:50
SB-3A (6')	4C28013-29	Soil	03/27/24 10:08	03-28-2024 16:50
SB-3A (8')	4C28013-30	Soil	03/27/24 10:12	03-28-2024 16:50
SB-3A (10')	4C28013-31	Soil	03/27/24 10:16	03-28-2024 16:50
SB-3A (12')	4C28013-32	Soil	03/27/24 10:18	03-28-2024 16:50
SB-3A (14')	4C28013-33	Soil	03/27/24 10:22	03-28-2024 16:50
SB-3A (16')	4C28013-34	Soil	03/27/24 10:26	03-28-2024 16:50

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-3A (18')	4C28013-35	Soil	03/27/24 10:30	03-28-2024 16:50
SB-3A (20')	4C28013-36	Soil	03/27/24 10:34	03-28-2024 16:50
SB-5A (2')	4C28013-37	Soil	03/27/24 11:22	03-28-2024 16:50
SB-5A (4')	4C28013-38	Soil	03/27/24 11:26	03-28-2024 16:50
SB-5A (6')	4C28013-39	Soil	03/27/24 11:30	03-28-2024 16:50
SB-5A (8')	4C28013-40	Soil	03/27/24 11:34	03-28-2024 16:50
SB-5A (10')	4C28013-41	Soil	03/27/24 11:38	03-28-2024 16:50
SB-5A (12')	4C28013-42	Soil	03/27/24 11:42	03-28-2024 16:50
SB-5A (14')	4C28013-43	Soil	03/27/24 11:46	03-28-2024 16:50
SB-5A (16')	4C28013-44	Soil	03/27/24 11:50	03-28-2024 16:50
SB-5A (18')	4C28013-45	Soil	03/27/24 11:54	03-28-2024 16:50
SB-5A (20')	4C28013-46	Soil	03/27/24 11:58	03-28-2024 16:50
SB-4A (6')	4C28013-47	Soil	03/28/24 11:30	03-28-2024 16:50

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-1 (10')  
4C28013-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	328	26.0	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 09:59	EPA 8015M	
Diesel Range Organics	2050	26.0	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 09:59	EPA 8015M	
Oil Range Organics	283	26.0	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 09:59	EPA 8015M	
Surrogate: 1-Chlorooctane	97.6 %		70-130		P4C2902	03/29/24 17:02	03/30/24 09:59	EPA 8015M	
Surrogate: o-Terphenyl	88.4 %		70-130		P4C2902	03/29/24 17:02	03/30/24 09:59	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	4.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-1 (12')  
4C28013-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	950	26.9	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 10:22	EPA 8015M	
Diesel Range Organics	3080	26.9	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 10:22	EPA 8015M	
Oil Range Organics	433	26.9	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 10:22	EPA 8015M	
Surrogate: 1-Chlorooctane	91.0 %		70-130		P4C2902	03/29/24 17:02	03/30/24 10:22	EPA 8015M	
Surrogate: o-Terphenyl	90.3 %		70-130		P4C2902	03/29/24 17:02	03/30/24 10:22	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	7.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-1 (14')  
4C28013-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	165	26.0	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 10:45	EPA 8015M	
Diesel Range Organics	1410	26.0	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 10:45	EPA 8015M	
Oil Range Organics	220	26.0	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 10:45	EPA 8015M	
Surrogate: 1-Chlorooctane	87.0 %		70-130		P4C2902	03/29/24 17:02	03/30/24 10:45	EPA 8015M	
Surrogate: o-Terphenyl	89.8 %		70-130		P4C2902	03/29/24 17:02	03/30/24 10:45	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	4.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-1 (16')  
4C28013-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	615	26.9	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 11:08	EPA 8015M	
Diesel Range Organics	2990	26.9	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 11:08	EPA 8015M	
Oil Range Organics	412	26.9	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 11:08	EPA 8015M	
Surrogate: 1-Chlorooctane	105 %		70-130		P4C2902	03/29/24 17:02	03/30/24 11:08	EPA 8015M	
Surrogate: o-Terphenyl	77.1 %		70-130		P4C2902	03/29/24 17:02	03/30/24 11:08	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	7.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-1 (18')  
4C28013-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	160	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 11:31	EPA 8015M	
Diesel Range Organics	1410	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 11:31	EPA 8015M	
Oil Range Organics	212	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 11:31	EPA 8015M	
Surrogate: 1-Chlorooctane	83.5 %	70-130			P4C2902	03/29/24 17:02	03/30/24 11:31	EPA 8015M	
Surrogate: o-Terphenyl	87.3 %	70-130			P4C2902	03/29/24 17:02	03/30/24 11:31	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**SB-1 (20')**  
**4C28013-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:32	EPA 8021B	
<b>Toluene</b>	<b>0.00139</b>	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:32	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00806</b>	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:32	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0515</b>	0.00206	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:32	EPA 8021B	
<b>Xylene (o)</b>	<b>0.0166</b>	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	129 %		80-120		P4D0114	04/01/24 10:40	04/02/24 05:32	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	80.9 %		80-120		P4D0114	04/01/24 10:40	04/02/24 05:32	EPA 8021B	
<b>Xylenes (total)</b>	<b>0.0680</b>	0.00103	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 05:32	EPA 8021B	
<b>Total BTEX</b>	<b>0.0775</b>	0.00103	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 05:32	EPA 8021B	

**Organics by GC**

<b>Gasoline Range Organics</b>	<b>139</b>	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 11:54	EPA 8015M	
<b>Diesel Range Organics</b>	<b>1360</b>	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 11:54	EPA 8015M	
<b>Oil Range Organics</b>	<b>188</b>	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 11:54	EPA 8015M	
Surrogate: 1-Chlorooctane	85.3 %		70-130		P4C2902	03/29/24 17:02	03/30/24 11:54	EPA 8015M	
Surrogate: o-Terphenyl	90.6 %		70-130		P4C2902	03/29/24 17:02	03/30/24 11:54	EPA 8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>52.2</b>	1.03	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 15:34	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235



GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-1 (25')  
4C28013-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	412	26.0	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 12:17	EPA 8015M	
Diesel Range Organics	2810	26.0	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 12:17	EPA 8015M	
Oil Range Organics	380	26.0	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 12:17	EPA 8015M	
Surrogate: 1-Chlorooctane	103 %		70-130		P4C2902	03/29/24 17:02	03/30/24 12:17	EPA 8015M	
Surrogate: o-Terphenyl	90.9 %		70-130		P4C2902	03/29/24 17:02	03/30/24 12:17	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	4.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**SB-1 (30')**  
**4C28013-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:55	EPA 8021B	
Toluene	<b>0.0265</b>	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:55	EPA 8021B	
Ethylbenzene	<b>0.100</b>	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:55	EPA 8021B	
Xylene (p/m)	<b>0.729</b>	0.00206	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:55	EPA 8021B	
Xylene (o)	<b>0.275</b>	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 05:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	156 %		80-120		P4D0114	04/01/24 10:40	04/02/24 05:55	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	86.1 %		80-120		P4D0114	04/01/24 10:40	04/02/24 05:55	EPA 8021B	
Xylenes (total)	<b>1.00</b>	0.00103	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 05:55	EPA 8021B	
Total BTEX	<b>1.13</b>	0.00103	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 05:55	EPA 8021B	

**Organics by GC**

Gasoline Range Organics	<b>562</b>	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 12:40	EPA 8015M	
Diesel Range Organics	<b>3020</b>	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 12:40	EPA 8015M	
Oil Range Organics	<b>412</b>	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 12:40	EPA 8015M	
Surrogate: 1-Chlorooctane	114 %		70-130		P4C2902	03/29/24 17:02	03/30/24 12:40	EPA 8015M	
Surrogate: o-Terphenyl	89.6 %		70-130		P4C2902	03/29/24 17:02	03/30/24 12:40	EPA 8015M	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	<b>59.0</b>	1.03	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 15:53	EPA 300.0	
% Moisture	<b>3.0</b>	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-1 (35')  
4C28013-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	153	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 13:03	EPA 8015M	
Diesel Range Organics	1580	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 13:03	EPA 8015M	
Oil Range Organics	225	25.8	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 13:03	EPA 8015M	
Surrogate: 1-Chlorooctane	85.1 %		70-130		P4C2902	03/29/24 17:02	03/30/24 13:03	EPA 8015M	
Surrogate: o-Terphenyl	92.3 %		70-130		P4C2902	03/29/24 17:02	03/30/24 13:03	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**SB-1 (40')**  
**4C28013-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:17	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:17	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:17	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00264</b>	0.00204	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:17	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	80.6 %		80-120		P4D0114	04/01/24 10:40	04/02/24 06:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	124 %		80-120		P4D0114	04/01/24 10:40	04/02/24 06:17	EPA 8021B	S-GC
<b>Xylenes (total)</b>	<b>0.00264</b>	0.00102	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 06:17	EPA 8021B	
<b>Total BTEX</b>	<b>0.00264</b>	0.00102	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 06:17	EPA 8021B	

**Organics by GC**

Gasoline Range Organics	ND	25.5	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 13:26	EPA 8015M	
<b>Diesel Range Organics</b>	<b>345</b>	25.5	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 13:26	EPA 8015M	
<b>Oil Range Organics</b>	<b>73.4</b>	25.5	mg/kg dry	1	P4C2902	03/29/24 17:02	03/30/24 13:26	EPA 8015M	
Surrogate: 1-Chlorooctane	81.7 %		70-130		P4C2902	03/29/24 17:02	03/30/24 13:26	EPA 8015M	
Surrogate: o-Terphenyl	91.7 %		70-130		P4C2902	03/29/24 17:02	03/30/24 13:26	EPA 8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>46.2</b>	1.02	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 16:12	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-1 (45')  
4C28013-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Gasoline Range Organics	33.6	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 05:02	EPA 8015M	
Diesel Range Organics	142	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 05:02	EPA 8015M	
Oil Range Organics	ND	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 05:02	EPA 8015M	
Surrogate: 1-Chlorooctane	98.0 %		70-130		P4C2903	03/29/24 11:43	03/30/24 05:02	EPA 8015M	
Surrogate: o-Terphenyl	91.8 %		70-130		P4C2903	03/29/24 11:43	03/30/24 05:02	EPA 8015M	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-1 (50')  
4C28013-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

<b>BTEX by 8021B</b>									
Benzene	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:40	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:40	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:40	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:40	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 06:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.0 %		80-120		P4D0114	04/01/24 10:40	04/02/24 06:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	123 %		80-120		P4D0114	04/01/24 10:40	04/02/24 06:40	EPA 8021B	S-GC
Xylenes (total)	ND	0.00103	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 06:40	EPA 8021B	
Total BTEX	ND	0.00103	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 06:40	EPA 8021B	

<b>Organics by GC</b>									
Gasoline Range Organics	28.7	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 05:25	EPA 8015M	
Diesel Range Organics	117	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 05:25	EPA 8015M	
Oil Range Organics	ND	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 05:25	EPA 8015M	
Surrogate: 1-Chlorooctane	92.8 %		70-130		P4C2903	03/29/24 11:43	03/30/24 05:25	EPA 8015M	
Surrogate: o-Terphenyl	85.6 %		70-130		P4C2903	03/29/24 11:43	03/30/24 05:25	EPA 8015M	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
Chloride	57.1	1.03	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 16:32	EPA 300.0	
% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-1 (55')  
4C28013-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	28.3	25.5	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 05:47	EPA 8015M	
Diesel Range Organics	107	25.5	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 05:47	EPA 8015M	
Oil Range Organics	ND	25.5	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 05:47	EPA 8015M	
Surrogate: 1-Chlorooctane	96.3 %		70-130		P4C2903	03/29/24 11:43	03/30/24 05:47	EPA 8015M	
Surrogate: o-Terphenyl	90.2 %		70-130		P4C2903	03/29/24 11:43	03/30/24 05:47	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	2.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**SB-1 (60')**  
**4C28013-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:02	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:02	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:02	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:02	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	132 %		80-120		P4D0114	04/01/24 10:40	04/02/24 07:02	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	80.6 %		80-120		P4D0114	04/01/24 10:40	04/02/24 07:02	EPA 8021B	
Xylenes (total)	ND	0.00101	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 07:02	EPA 8021B	
Total BTEX	ND	0.00101	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 07:02	EPA 8021B	

**Organics by GC**

<b>Gasoline Range Organics</b>	<b>30.0</b>	25.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 06:09	EPA 8015M	
<b>Diesel Range Organics</b>	<b>48.4</b>	25.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 06:09	EPA 8015M	
<b>Oil Range Organics</b>	<b>ND</b>	25.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 06:09	EPA 8015M	
Surrogate: 1-Chlorooctane	95.1 %		70-130		P4C2903	03/29/24 11:43	03/30/24 06:09	EPA 8015M	
Surrogate: o-Terphenyl	85.5 %		70-130		P4C2903	03/29/24 11:43	03/30/24 06:09	EPA 8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>63.4</b>	1.01	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 16:51	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235



GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-1 (65')  
4C28013-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	32.2	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 06:32	EPA 8015M	
Diesel Range Organics	32.9	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 06:32	EPA 8015M	
Oil Range Organics	ND	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 06:32	EPA 8015M	
Surrogate: 1-Chlorooctane	96.7 %		70-130		P4C2903	03/29/24 11:43	03/30/24 06:32	EPA 8015M	
Surrogate: o-Terphenyl	88.7 %		70-130		P4C2903	03/29/24 11:43	03/30/24 06:32	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**SB-1 (70')**  
**4C28013-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:25	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:25	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:25	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:25	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	131 %		80-120		P4D0114	04/01/24 10:40	04/02/24 07:25	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	80.8 %		80-120		P4D0114	04/01/24 10:40	04/02/24 07:25	EPA 8021B	
Xylenes (total)	ND	0.00101	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 07:25	EPA 8021B	
Total BTEX	ND	0.00101	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 07:25	EPA 8021B	

**Organics by GC**

<b>Gasoline Range Organics</b>	<b>27.4</b>	25.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 06:54	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 06:54	EPA 8015M	
Oil Range Organics	ND	25.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 06:54	EPA 8015M	
Surrogate: 1-Chlorooctane	98.4 %		70-130		P4C2903	03/29/24 11:43	03/30/24 06:54	EPA 8015M	
Surrogate: o-Terphenyl	90.3 %		70-130		P4C2903	03/29/24 11:43	03/30/24 06:54	EPA 8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.83</b>	1.01	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 17:10	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-2A (2')  
4C28013-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Gasoline Range Organics	31.1	26.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 07:16	EPA 8015M	
Diesel Range Organics	ND	26.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 07:16	EPA 8015M	
Oil Range Organics	ND	26.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 07:16	EPA 8015M	
Surrogate: 1-Chlorooctane	82.9 %	70-130			P4C2903	03/29/24 11:43	03/30/24 07:16	EPA 8015M	
Surrogate: o-Terphenyl	77.2 %	70-130			P4C2903	03/29/24 11:43	03/30/24 07:16	EPA 8015M	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
% Moisture	5.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-2A (4')  
4C28013-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Gasoline Range Organics	33.3	26.6	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 07:38	EPA 8015M	
Diesel Range Organics	ND	26.6	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 07:38	EPA 8015M	
Oil Range Organics	ND	26.6	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 07:38	EPA 8015M	
Surrogate: 1-Chlorooctane	96.1 %		70-130		P4C2903	03/29/24 11:43	03/30/24 07:38	EPA 8015M	
Surrogate: o-Terphenyl	89.7 %		70-130		P4C2903	03/29/24 11:43	03/30/24 07:38	EPA 8015M	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
% Moisture	6.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-2A (6')  
4C28013-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	32.9	27.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 08:01	EPA 8015M	
Diesel Range Organics	ND	27.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 08:01	EPA 8015M	
Oil Range Organics	ND	27.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 08:01	EPA 8015M	
Surrogate: 1-Chlorooctane	93.0 %	70-130			P4C2903	03/29/24 11:43	03/30/24 08:01	EPA 8015M	
Surrogate: o-Terphenyl	87.6 %	70-130			P4C2903	03/29/24 11:43	03/30/24 08:01	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	10.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-2A (8')  
4C28013-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	37.9	27.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 08:23	EPA 8015M	
Diesel Range Organics	ND	27.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 08:23	EPA 8015M	
Oil Range Organics	ND	27.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 08:23	EPA 8015M	
Surrogate: 1-Chlorooctane	93.8 %	70-130			P4C2903	03/29/24 11:43	03/30/24 08:23	EPA 8015M	
Surrogate: o-Terphenyl	87.9 %	70-130			P4C2903	03/29/24 11:43	03/30/24 08:23	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	10.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-2A (10")  
4C28013-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

<b>BTEX by 8021B</b>									
Benzene	ND	0.00111	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:48	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:48	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:48	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:48	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 07:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	123 %		80-120		P4D0114	04/01/24 10:40	04/02/24 07:48	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	82.3 %		80-120		P4D0114	04/01/24 10:40	04/02/24 07:48	EPA 8021B	
Xylenes (total)	ND	0.00111	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 07:48	EPA 8021B	
Total BTEX	ND	0.00111	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 07:48	EPA 8021B	

<b>Organics by GC</b>									
Gasoline Range Organics	35.3	27.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 09:30	EPA 8015M	
Diesel Range Organics	834	27.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 09:30	EPA 8015M	
Oil Range Organics	357	27.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 09:30	EPA 8015M	
Surrogate: 1-Chlorooctane	94.6 %		70-130		P4C2903	03/29/24 11:43	03/30/24 09:30	EPA 8015M	
Surrogate: o-Terphenyl	89.8 %		70-130		P4C2903	03/29/24 11:43	03/30/24 09:30	EPA 8015M	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
Chloride	67.7	1.11	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 17:30	EPA 300.0	
% Moisture	10.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-2A (12')  
4C28013-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	50.3	26.9	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 09:52	EPA 8015M	
Diesel Range Organics	37.5	26.9	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 09:52	EPA 8015M	
Oil Range Organics	ND	26.9	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 09:52	EPA 8015M	
Surrogate: 1-Chlorooctane	89.1 %		70-130		P4C2903	03/29/24 11:43	03/30/24 09:52	EPA 8015M	
Surrogate: o-Terphenyl	80.0 %		70-130		P4C2903	03/29/24 11:43	03/30/24 09:52	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	7.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-2A (14')SB-2A (14')  
4C28013-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	30.8	26.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 10:14	EPA 8015M	
Diesel Range Organics	51.7	26.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 10:14	EPA 8015M	
Oil Range Organics	ND	26.3	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 10:14	EPA 8015M	
Surrogate: 1-Chlorooctane	99.4 %		70-130		P4C2903	03/29/24 11:43	03/30/24 10:14	EPA 8015M	
Surrogate: o-Terphenyl	92.8 %		70-130		P4C2903	03/29/24 11:43	03/30/24 10:14	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	5.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-2A (16')  
4C28013-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	31.9	26.0	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 10:36	EPA 8015M	
Diesel Range Organics	32.2	26.0	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 10:36	EPA 8015M	
Oil Range Organics	ND	26.0	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 10:36	EPA 8015M	
Surrogate: 1-Chlorooctane	98.3 %		70-130		P4C2903	03/29/24 11:43	03/30/24 10:36	EPA 8015M	
Surrogate: o-Terphenyl	93.9 %		70-130		P4C2903	03/29/24 11:43	03/30/24 10:36	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	4.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-2A (18")  
4C28013-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	36.6	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 10:59	EPA 8015M	
Diesel Range Organics	57.6	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 10:59	EPA 8015M	
Oil Range Organics	ND	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 10:59	EPA 8015M	
Surrogate: 1-Chlorooctane	97.5 %		70-130		P4C2903	03/29/24 11:43	03/30/24 10:59	EPA 8015M	
Surrogate: o-Terphenyl	93.3 %		70-130		P4C2903	03/29/24 11:43	03/30/24 10:59	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-2A )20")  
4C28013-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	35.0	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 11:21	EPA 8015M	
Diesel Range Organics	ND	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 11:21	EPA 8015M	
Oil Range Organics	ND	25.8	mg/kg dry	1	P4C2903	03/29/24 11:43	03/30/24 11:21	EPA 8015M	
Surrogate: 1-Chlorooctane	97.5 %		70-130		P4C2903	03/29/24 11:43	03/30/24 11:21	EPA 8015M	
Surrogate: o-Terphenyl	92.4 %		70-130		P4C2903	03/29/24 11:43	03/30/24 11:21	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	88.3	1.03	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 17:49	EPA 300.0	
% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-3A (2')  
4C28013-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	31.4	25.8	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 11:43	EPA 8015M	
Diesel Range Organics	39.4	25.8	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 11:43	EPA 8015M	
Oil Range Organics	ND	25.8	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 11:43	EPA 8015M	
Surrogate: 1-Chlorooctane	94.2 %		70-130		P4C2903	03/30/24 11:43	03/30/24 11:43	EPA 8015M	
Surrogate: o-Terphenyl	88.6 %		70-130		P4C2903	03/30/24 11:43	03/30/24 11:43	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-3A (4')  
4C28013-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	37.2	26.6	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 12:05	EPA 8015M	
Diesel Range Organics	136	26.6	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 12:05	EPA 8015M	
Oil Range Organics	62.1	26.6	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 12:05	EPA 8015M	
Surrogate: 1-Chlorooctane	96.7 %		70-130		P4C2903	03/30/24 11:43	03/30/24 12:05	EPA 8015M	
Surrogate: o-Terphenyl	91.4 %		70-130		P4C2903	03/30/24 11:43	03/30/24 12:05	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	6.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**SB-3A (6')**  
**4C28013-29 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00108	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:11	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:11	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:11	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:11	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	83.5 %		80-120		P4D0114	04/01/24 10:40	04/02/24 08:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	121 %		80-120		P4D0114	04/01/24 10:40	04/02/24 08:11	EPA 8021B	S-GC
Xylenes (total)	ND	0.00108	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 08:11	EPA 8021B	
Total BTEX	ND	0.00108	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 08:11	EPA 8021B	

**Organics by GC**

<b>Gasoline Range Organics</b>	<b>32.7</b>	26.9	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 12:28	EPA 8015M	
Diesel Range Organics	ND	26.9	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 12:28	EPA 8015M	
Oil Range Organics	ND	26.9	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 12:28	EPA 8015M	
Surrogate: 1-Chlorooctane	99.5 %		70-130		P4C2903	03/30/24 11:43	03/30/24 12:28	EPA 8015M	
Surrogate: o-Terphenyl	93.8 %		70-130		P4C2903	03/30/24 11:43	03/30/24 12:28	EPA 8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>35.8</b>	1.08	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 18:47	EPA 300.0	
<b>% Moisture</b>	<b>7.0</b>	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-3A (8')  
4C28013-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	33.1	27.5	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 12:50	EPA 8015M	
Diesel Range Organics	34.1	27.5	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 12:50	EPA 8015M	
Oil Range Organics	ND	27.5	mg/kg dry	1	P4C2903	03/30/24 11:43	03/30/24 12:50	EPA 8015M	
Surrogate: 1-Chlorooctane	94.4 %		70-130		P4C2903	03/30/24 11:43	03/30/24 12:50	EPA 8015M	
Surrogate: o-Terphenyl	89.6 %		70-130		P4C2903	03/30/24 11:43	03/30/24 12:50	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	9.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-3A (10")  
4C28013-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	29.6	26.6	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 19:27	EPA 8015M	
Diesel Range Organics	ND	26.6	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 19:27	EPA 8015M	
Oil Range Organics	ND	26.6	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 19:27	EPA 8015M	
Surrogate: 1-Chlorooctane	99.4 %		70-130		P4C2904	03/29/24 12:18	03/29/24 19:27	EPA 8015M	
Surrogate: o-Terphenyl	89.6 %		70-130		P4C2904	03/29/24 12:18	03/29/24 19:27	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	6.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-3A (12')  
4C28013-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	34.6	26.6	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 19:49	EPA 8015M	
Diesel Range Organics	35.7	26.6	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 19:49	EPA 8015M	
Oil Range Organics	ND	26.6	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 19:49	EPA 8015M	
Surrogate: 1-Chlorooctane	99.6 %		70-130		P4C2904	03/29/24 12:18	03/29/24 19:49	EPA 8015M	
Surrogate: o-Terphenyl	90.7 %		70-130		P4C2904	03/29/24 12:18	03/29/24 19:49	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	6.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-3A (14")  
4C28013-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	308	269	mg/kg dry	10	P4C2904	03/29/24 12:18	03/29/24 20:11	EPA 8015M	
Diesel Range Organics	4900	269	mg/kg dry	10	P4C2904	03/29/24 12:18	03/29/24 20:11	EPA 8015M	
Oil Range Organics	2120	269	mg/kg dry	10	P4C2904	03/29/24 12:18	03/29/24 20:11	EPA 8015M	
Surrogate: 1-Chlorooctane	102 %		70-130		P4C2904	03/29/24 12:18	03/29/24 20:11	EPA 8015M	
Surrogate: o-Terphenyl	90.6 %		70-130		P4C2904	03/29/24 12:18	03/29/24 20:11	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	7.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-3A (16')  
4C28013-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	28.9	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 20:33	EPA 8015M	
Diesel Range Organics	110	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 20:33	EPA 8015M	
Oil Range Organics	57.8	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 20:33	EPA 8015M	
Surrogate: 1-Chlorooctane	105 %		70-130		P4C2904	03/29/24 12:18	03/29/24 20:33	EPA 8015M	
Surrogate: o-Terphenyl	95.5 %		70-130		P4C2904	03/29/24 12:18	03/29/24 20:33	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-3A (18")  
4C28013-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	31.1	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 20:55	EPA 8015M	
Diesel Range Organics	ND	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 20:55	EPA 8015M	
Oil Range Organics	ND	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 20:55	EPA 8015M	
Surrogate: 1-Chlorooctane	96.2 %		70-130		P4C2904	03/29/24 12:18	03/29/24 20:55	EPA 8015M	
Surrogate: o-Terphenyl	87.7 %		70-130		P4C2904	03/29/24 12:18	03/29/24 20:55	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**SB-3A (20")**  
**4C28013-36 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:33	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:33	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:33	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:33	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	80.1 %		80-120		P4D0114	04/01/24 10:40	04/02/24 08:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	128 %		80-120		P4D0114	04/01/24 10:40	04/02/24 08:33	EPA 8021B	S-GC
Xylenes (total)	ND	0.00103	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 08:33	EPA 8021B	
Total BTEX	ND	0.00103	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 08:33	EPA 8021B	

**Organics by GC**

Gasoline Range Organics	38.4	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 21:18	EPA 8015M	
Diesel Range Organics	41.8	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 21:18	EPA 8015M	
Oil Range Organics	ND	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 21:18	EPA 8015M	
Surrogate: 1-Chlorooctane	106 %		70-130		P4C2904	03/29/24 12:18	03/29/24 21:18	EPA 8015M	
Surrogate: o-Terphenyl	97.5 %		70-130		P4C2904	03/29/24 12:18	03/29/24 21:18	EPA 8015M	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	96.6	1.03	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 19:45	EPA 300.0	
% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-5A (2')  
4C28013-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	35.5	26.0	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 21:40	EPA 8015M	
Diesel Range Organics	ND	26.0	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 21:40	EPA 8015M	
Oil Range Organics	ND	26.0	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 21:40	EPA 8015M	
Surrogate: 1-Chlorooctane	95.5 %		70-130		P4C2904	03/29/24 12:18	03/29/24 21:40	EPA 8015M	
Surrogate: o-Terphenyl	87.6 %		70-130		P4C2904	03/29/24 12:18	03/29/24 21:40	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	4.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-5A (4')  
4C28013-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	37.0	26.0	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 22:02	EPA 8015M	
Diesel Range Organics	ND	26.0	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 22:02	EPA 8015M	
Oil Range Organics	ND	26.0	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 22:02	EPA 8015M	
Surrogate: 1-Chlorooctane	71.6 %		70-130		P4C2904	03/29/24 12:18	03/29/24 22:02	EPA 8015M	
Surrogate: o-Terphenyl	66.7 %		70-130		P4C2904	03/29/24 12:18	03/29/24 22:02	EPA 8015M	S-GC

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	4.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-5A (6')  
4C28013-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	48.2	27.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 22:24	EPA 8015M	
Diesel Range Organics	ND	27.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 22:24	EPA 8015M	
Oil Range Organics	ND	27.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 22:24	EPA 8015M	
Surrogate: 1-Chlorooctane	98.4 %	70-130			P4C2904	03/29/24 12:18	03/29/24 22:24	EPA 8015M	
Surrogate: o-Terphenyl	92.0 %	70-130			P4C2904	03/29/24 12:18	03/29/24 22:24	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	10.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-5A (8')  
4C28013-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

<b>Organics by GC</b>									
Gasoline Range Organics	32.8	26.9	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 22:46	EPA 8015M	
Diesel Range Organics	40.0	26.9	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 22:46	EPA 8015M	
Oil Range Organics	ND	26.9	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 22:46	EPA 8015M	
Surrogate: 1-Chlorooctane	91.3 %		70-130		P4C2904	03/29/24 12:18	03/29/24 22:46	EPA 8015M	
Surrogate: o-Terphenyl	87.5 %		70-130		P4C2904	03/29/24 12:18	03/29/24 22:46	EPA 8015M	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
% Moisture	7.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-5A (10")  
4C28013-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	36.2	27.5	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 23:52	EPA 8015M	
Diesel Range Organics	ND	27.5	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 23:52	EPA 8015M	
Oil Range Organics	ND	27.5	mg/kg dry	1	P4C2904	03/29/24 12:18	03/29/24 23:52	EPA 8015M	
Surrogate: 1-Chlorooctane	95.1 %		70-130		P4C2904	03/29/24 12:18	03/29/24 23:52	EPA 8015M	
Surrogate: o-Terphenyl	87.5 %		70-130		P4C2904	03/29/24 12:18	03/29/24 23:52	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	9.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**SB-5A (12')**  
**4C28013-42 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00110	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:56	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:56	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:56	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:56	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 08:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	80.6 %		80-120		P4D0114	04/01/24 10:40	04/02/24 08:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	136 %		80-120		P4D0114	04/01/24 10:40	04/02/24 08:56	EPA 8021B	S-GC
Xylenes (total)	ND	0.00110	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 08:56	EPA 8021B	
Total BTEX	ND	0.00110	mg/kg dry	1	[CALC]	04/01/24 10:40	04/02/24 08:56	EPA 8021B	

**Organics by GC**

<b>Gasoline Range Organics</b>	<b>33.8</b>	27.5	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 00:14	EPA 8015M	
Diesel Range Organics	ND	27.5	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 00:14	EPA 8015M	
Oil Range Organics	ND	27.5	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 00:14	EPA 8015M	
Surrogate: 1-Chlorooctane	86.2 %		70-130		P4C2904	03/29/24 12:18	03/30/24 00:14	EPA 8015M	
Surrogate: o-Terphenyl	81.1 %		70-130		P4C2904	03/29/24 12:18	03/30/24 00:14	EPA 8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>122</b>	1.10	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 20:04	EPA 300.0	
<b>% Moisture</b>	<b>9.0</b>	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-5A (14")  
4C28013-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	31.4	27.2	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 00:36	EPA 8015M	
Diesel Range Organics	ND	27.2	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 00:36	EPA 8015M	
Oil Range Organics	ND	27.2	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 00:36	EPA 8015M	
Surrogate: 1-Chlorooctane	94.7 %	70-130			P4C2904	03/29/24 12:18	03/30/24 00:36	EPA 8015M	
Surrogate: o-Terphenyl	89.3 %	70-130			P4C2904	03/29/24 12:18	03/30/24 00:36	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	8.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-5A (16')  
4C28013-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Gasoline Range Organics	38.1	26.3	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 00:58	EPA 8015M	
Diesel Range Organics	29.5	26.3	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 00:58	EPA 8015M	
Oil Range Organics	ND	26.3	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 00:58	EPA 8015M	
Surrogate: 1-Chlorooctane	90.6 %		70-130		P4C2904	03/29/24 12:18	03/30/24 00:58	EPA 8015M	
Surrogate: o-Terphenyl	84.8 %		70-130		P4C2904	03/29/24 12:18	03/30/24 00:58	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	5.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	
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DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

SB-5A (18")  
4C28013-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Gasoline Range Organics	28.7	26.3	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 01:20	EPA 8015M	
Diesel Range Organics	389	26.3	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 01:20	EPA 8015M	
Oil Range Organics	190	26.3	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 01:20	EPA 8015M	
Surrogate: 1-Chlorooctane	92.3 %		70-130		P4C2904	03/29/24 12:18	03/30/24 01:20	EPA 8015M	
Surrogate: o-Terphenyl	87.6 %		70-130		P4C2904	03/29/24 12:18	03/30/24 01:20	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	5.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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GHD Services-Midland 2135 S. Loop 250 West Midland TX, 79703	Project: Red Hills Release Project Number: 12626654 Project Manager: Mitchell Clemens
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SB-5A (20")  
4C28013-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

<b>BTEX by 8021B</b>									
Benzene	ND	0.00103	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 15:39	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 15:39	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 15:39	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 15:39	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 15:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	139 %	80-120			P4D0216	04/02/24 11:25	04/02/24 15:39	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	81.1 %	80-120			P4D0216	04/02/24 11:25	04/02/24 15:39	EPA 8021B	
Xylenes (total)	ND	0.00103	mg/kg dry	1	[CALC]	04/02/24 11:25	04/02/24 15:39	EPA 8021B	
Total BTEX	ND	0.00103	mg/kg dry	1	[CALC]	04/02/24 11:25	04/02/24 15:39	EPA 8021B	

<b>Organics by GC</b>									
Gasoline Range Organics	30.0	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 01:43	EPA 8015M	
Diesel Range Organics	ND	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 01:43	EPA 8015M	
Oil Range Organics	ND	25.8	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 01:43	EPA 8015M	
Surrogate: 1-Chlorooctane	102 %	70-130			P4C2904	03/29/24 12:18	03/30/24 01:43	EPA 8015M	
Surrogate: o-Terphenyl	94.6 %	70-130			P4C2904	03/29/24 12:18	03/30/24 01:43	EPA 8015M	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
Chloride	82.0	1.03	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 20:24	EPA 300.0	
% Moisture	3.0	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235



GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**SB-4A (6')**  
**4C28013-47 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00112	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 16:01	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 16:01	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 16:01	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 16:01	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P4D0216	04/02/24 11:25	04/02/24 16:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	80.3 %		80-120		P4D0216	04/02/24 11:25	04/02/24 16:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	130 %		80-120		P4D0216	04/02/24 11:25	04/02/24 16:01	EPA 8021B	S-GC
Xylenes (total)	ND	0.00112	mg/kg dry	1	[CALC]	04/02/24 11:25	04/02/24 16:01	EPA 8021B	
Total BTEX	ND	0.00112	mg/kg dry	1	[CALC]	04/02/24 11:25	04/02/24 16:01	EPA 8021B	

**Organics by GC**

<b>Gasoline Range Organics</b>	<b>36.3</b>	28.1	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 02:05	EPA 8015M	
Diesel Range Organics	ND	28.1	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 02:05	EPA 8015M	
Oil Range Organics	ND	28.1	mg/kg dry	1	P4C2904	03/29/24 12:18	03/30/24 02:05	EPA 8015M	
Surrogate: 1-Chlorooctane	78.8 %		70-130		P4C2904	03/29/24 12:18	03/30/24 02:05	EPA 8015M	
Surrogate: o-Terphenyl	74.1 %		70-130		P4C2904	03/29/24 12:18	03/30/24 02:05	EPA 8015M	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>30.5</b>	1.12	mg/kg dry	1	P4D0113	04/01/24 12:14	04/01/24 20:43	EPA 300.0	
<b>% Moisture</b>	<b>11.0</b>	0.1	%	1	P4D0115	04/01/24 10:49	04/01/24 11:19	ASTM D2216	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0114 - \*\*\* DEFAULT PREP \*\*\*

Blank (P4D0114-BLK1)		Prepared: 04/01/24 Analyzed: 04/02/24								
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0961		"	0.120		80.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.162		"	0.120		135	80-120			S-GC

LCS (P4D0114-BS1)		Prepared & Analyzed: 04/01/24								
Benzene	0.0852	0.00100	mg/kg	0.100		85.2	80-120			
Toluene	0.0807	0.00100	"	0.100		80.7	80-120			
Ethylbenzene	0.0927	0.00100	"	0.100		92.7	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		105	80-120			
Xylene (o)	0.0891	0.00100	"	0.100		89.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	80-120			

LCS Dup (P4D0114-BSD1)		Prepared: 04/01/24 Analyzed: 04/02/24								
Benzene	0.0938	0.00100	mg/kg	0.100		93.8	80-120	9.68	20	
Toluene	0.0916	0.00100	"	0.100		91.6	80-120	12.6	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	13.8	20	
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120	12.9	20	
Xylene (o)	0.103	0.00100	"	0.100		103	80-120	14.2	20	
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		114	80-120			

Calibration Blank (P4D0114-CCB1)		Prepared & Analyzed: 04/01/24								
Benzene	0.360		ug/kg							
Toluene	0.420		"							
Ethylbenzene	0.210		"							
Xylene (p/m)	0.170		"							
Xylene (o)	0.160		"							
Surrogate: 4-Bromofluorobenzene	0.148		"	0.120		123	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.0970		"	0.120		80.9	80-120			

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0114 - \*\*\* DEFAULT PREP \*\*\*

Calibration Blank (P4D0114-CCB2)			Prepared: 04/01/24 Analyzed: 04/02/24							
Benzene	0.340		ug/kg							
Toluene	0.270		"							
Ethylbenzene	0.300		"							
Xylene (p/m)	0.580		"							
Xylene (o)	0.350		"							
Surrogate: 1,4-Difluorobenzene	0.0971		"	0.120		80.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.147		"	0.120		123	80-120			S-GC

Calibration Check (P4D0114-CCV1)			Prepared & Analyzed: 04/01/24							
Benzene	0.0994	0.00100	mg/kg	0.100		99.4	80-120			
Toluene	0.0949	0.00100	"	0.100		94.9	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		110	75-125			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.1	75-125			

Calibration Check (P4D0114-CCV2)			Prepared: 04/01/24 Analyzed: 04/02/24							
Benzene	0.0845	0.00100	mg/kg	0.100		84.5	80-120			
Toluene	0.0832	0.00100	"	0.100		83.2	80-120			
Ethylbenzene	0.0910	0.00100	"	0.100		91.0	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.0937	0.00100	"	0.100		93.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.120		113	75-125			
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.6	75-125			

Calibration Check (P4D0114-CCV3)			Prepared: 04/01/24 Analyzed: 04/02/24							
Benzene	0.0876	0.00100	mg/kg	0.100		87.6	80-120			
Toluene	0.0902	0.00100	"	0.100		90.2	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0962		"	0.120		80.1	75-125			

DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P4D0114 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P4D0114-MS1)</b>		<b>Source: 4D01005-21</b>		<b>Prepared: 04/01/24 Analyzed: 04/02/24</b>						
Benzene	0.0481	0.00120	mg/kg dry	0.120	ND	39.9	80-120			QM-05
Toluene	0.0582	0.00120	"	0.120	ND	48.3	80-120			QM-05
Ethylbenzene	0.0710	0.00120	"	0.120	ND	59.0	80-120			QM-05
Xylene (p/m)	0.171	0.00241	"	0.241	ND	71.0	80-120			QM-05
Xylene (o)	0.0753	0.00120	"	0.120	ND	62.5	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.117		"	0.145		80.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.188		"	0.145		130	80-120			S-GC

<b>Matrix Spike Dup (P4D0114-MSD1)</b>		<b>Source: 4D01005-21</b>		<b>Prepared: 04/01/24 Analyzed: 04/02/24</b>						
Benzene	0.0683	0.00120	mg/kg dry	0.120	ND	56.7	80-120	34.8	20	QM-05
Toluene	0.0780	0.00120	"	0.120	ND	64.8	80-120	29.1	20	QM-05
Ethylbenzene	0.0954	0.00120	"	0.120	ND	79.2	80-120	29.3	20	QM-05
Xylene (p/m)	0.228	0.00241	"	0.241	ND	94.5	80-120	28.4	20	QM-05
Xylene (o)	0.0969	0.00120	"	0.120	ND	80.4	80-120	25.1	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.117		"	0.145		80.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.190		"	0.145		131	80-120			S-GC

**Batch P4D0216 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P4D0216-BLK1)</b>				<b>Prepared &amp; Analyzed: 04/02/24</b>						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.161		"	0.120		134	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.0978		"	0.120		81.5	80-120			

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P4D0216 - \*\*\* DEFAULT PREP \*\*\***

**LCS (P4D0216-BS1)**

Prepared & Analyzed: 04/02/24

Benzene	0.0816	0.00100	mg/kg	0.100		81.6	80-120			
Toluene	0.0884	0.00100	"	0.100		88.4	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.0970		"	0.120		80.8	80-120			

**LCS Dup (P4D0216-BSD1)**

Prepared & Analyzed: 04/02/24

Benzene	0.0834	0.00100	mg/kg	0.100		83.4	80-120	2.11	20	
Toluene	0.0874	0.00100	"	0.100		87.4	80-120	1.11	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120	1.41	20	
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120	0.611	20	
Xylene (o)	0.101	0.00100	"	0.100		101	80-120	2.56	20	
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.0973		"	0.120		81.1	80-120			

**Calibration Blank (P4D0216-CCB1)**

Prepared & Analyzed: 04/02/24

Benzene	0.260		ug/kg							
Toluene	0.410		"							
Ethylbenzene	0.450		"							
Xylene (p/m)	0.290		"							
Xylene (o)	0.390		"							
Surrogate: 1,4-Difluorobenzene	0.0965		"	0.120		80.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.156		"	0.120		130	80-120			S-GC

**Calibration Blank (P4D0216-CCB2)**

Prepared & Analyzed: 04/02/24

Benzene	0.290		ug/kg							
Toluene	0.380		"							
Ethylbenzene	0.130		"							
Xylene (p/m)	0.210		"							
Xylene (o)	0.160		"							
Surrogate: 4-Bromofluorobenzene	0.150		"	0.120		125	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.0966		"	0.120		80.5	80-120			

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P4D0216 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Check (P4D0216-CCV1)**

Prepared & Analyzed: 04/02/24

Benzene	0.0825	0.00100	mg/kg	0.100		82.5	80-120			
Toluene	0.0866	0.00100	"	0.100		86.6	80-120			
Ethylbenzene	0.0997	0.00100	"	0.100		99.7	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.144		"	0.120		120	75-125			

**Calibration Check (P4D0216-CCV2)**

Prepared & Analyzed: 04/02/24

Benzene	0.0846	0.00100	mg/kg	0.100		84.6	80-120			
Toluene	0.0875	0.00100	"	0.100		87.5	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.0967		"	0.120		80.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		116	75-125			

**Calibration Check (P4D0216-CCV3)**

Prepared: 04/02/24 Analyzed: 04/03/24

Benzene	0.0935	0.00100	mg/kg	0.100		93.5	80-120			
Toluene	0.0859	0.00100	"	0.100		85.9	80-120			
Ethylbenzene	0.0929	0.00100	"	0.100		92.9	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.2	75-125			

**Matrix Spike (P4D0216-MS1)**

Source: 4D02005-01

Prepared & Analyzed: 04/02/24

Benzene	0.0653	0.00109	mg/kg dry	0.109	ND	60.0	80-120			QM-05
Toluene	0.0577	0.00109	"	0.109	ND	53.1	80-120			QM-05
Ethylbenzene	0.0640	0.00109	"	0.109	ND	58.9	80-120			QM-05
Xylene (p/m)	0.146	0.00217	"	0.217	ND	67.0	80-120			QM-05
Xylene (o)	0.0635	0.00109	"	0.109	ND	58.4	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.109		"	0.130		83.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.153		"	0.130		117	80-120			

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0216 - \*\*\* DEFAULT PREP \*\*\*

Matrix Spike Dup (P4D0216-MSD1)	Source: 4D02005-01			Prepared: 04/02/24 Analyzed: 04/03/24						
Benzene	0.0679	0.00109	mg/kg dry	0.109	ND	62.5	80-120	3.93	20	QM-05
Toluene	0.0531	0.00109	"	0.109	ND	48.8	80-120	8.36	20	QM-05
Ethylbenzene	0.0569	0.00109	"	0.109	ND	52.3	80-120	11.8	20	QM-05
Xylene (p/m)	0.120	0.00217	"	0.217	ND	55.1	80-120	19.4	20	QM-05
Xylene (o)	0.0533	0.00109	"	0.109	ND	49.1	80-120	17.3	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.135		"	0.130		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.130		90.4	80-120			

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

Organics by GC - Quality Control  
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4C2902 - TX 1005

Blank (P4C2902-BLK1)		Prepared: 03/29/24 Analyzed: 03/30/24								
Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Oil Range Organics	ND	25.0	"							
Surrogate: 1-Chlorooctane	87.9		"	100		87.9	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.1	70-130			

LCS (P4C2902-BS1)		Prepared: 03/29/24 Analyzed: 03/30/24								
Gasoline Range Organics	836	25.0	mg/kg				75-125			
Diesel Range Organics	853	25.0	"	1000		85.3	75-125			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	41.9		"	50.0		83.8	70-130			

LCS Dup (P4C2902-BSD1)		Prepared: 03/29/24 Analyzed: 03/30/24								
Gasoline Range Organics	866	25.0	mg/kg				75-125		20	
Diesel Range Organics	879	25.0	"	1000		87.9	75-125	2.92	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	43.1		"	50.0		86.3	70-130			

Calibration Check (P4C2902-CCV1)		Prepared: 03/29/24 Analyzed: 04/01/24								
Gasoline Range Organics	530	25.0	mg/kg	500		106	85-115			
Diesel Range Organics	569	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	93.4		"	100		93.4	85-115			
Surrogate: o-Terphenyl	47.6		"	50.0		95.2	85-115			

Calibration Check (P4C2902-CCV2)		Prepared: 03/29/24 Analyzed: 03/30/24								
Gasoline Range Organics	572	25.0	mg/kg	500		114	85-115			
Diesel Range Organics	570	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	96.4		"	100		96.4	85-115			
Surrogate: o-Terphenyl	46.0		"	50.0		92.0	85-115			

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

Organics by GC - Quality Control  
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4C2902 - TX 1005

Calibration Check (P4C2902-CCV3)	Prepared: 03/29/24 Analyzed: 03/30/24									
Gasoline Range Organics	533	25.0	mg/kg	500		107	85-115			
Diesel Range Organics	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	85-115			
Surrogate: o-Terphenyl	47.9		"	50.0		95.7	85-115			

Batch P4C2903 - TX 1005

Blank (P4C2903-BLK1)	Prepared: 03/29/24 Analyzed: 03/30/24									
Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Oil Range Organics	ND	25.0	"							
Mineral Oil Range Organics	ND	25.0	"							
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			

LCS (P4C2903-BS1)	Prepared: 03/29/24 Analyzed: 03/30/24									
Gasoline Range Organics	866	25.0	mg/kg				75-125			
Diesel Range Organics	801	25.0	"	1000		80.1	75-125			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			

LCS Dup (P4C2903-BS1)	Prepared: 03/29/24 Analyzed: 03/30/24									
Gasoline Range Organics	846	25.0	mg/kg				75-125		20	
Diesel Range Organics	782	25.0	"	1000		78.2	75-125	2.34	20	
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			

Calibration Check (P4C2903-CCV1)	Prepared: 03/29/24 Analyzed: 03/30/24									
Gasoline Range Organics	567	25.0	mg/kg	500		113	85-115			
Diesel Range Organics	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	85-115			

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

Organics by GC - Quality Control  
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4C2903 - TX 1005

Calibration Check (P4C2903-CCV2)	Prepared & Analyzed: 03/30/24									
Gasoline Range Organics	563	25.0	mg/kg	500		113	85-115			
Diesel Range Organics	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	85-115			

Calibration Check (P4C2903-CCV3)	Prepared & Analyzed: 03/30/24									
Gasoline Range Organics	565	25.0	mg/kg	500		113	85-115			
Diesel Range Organics	564	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	85-115			

Batch P4C2904 - TX 1005

Blank (P4C2904-BLK1)	Prepared & Analyzed: 03/29/24									
Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Oil Range Organics	ND	25.0	"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.1	70-130			

LCS (P4C2904-BS1)	Prepared & Analyzed: 03/29/24									
Gasoline Range Organics	870	25.0	mg/kg				75-125			
Diesel Range Organics	786	25.0	"	1000		78.6	75-125			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.3	70-130			

LCS Dup (P4C2904-BSD1)	Prepared & Analyzed: 03/29/24									
Gasoline Range Organics	877	25.0	mg/kg				75-125		20	
Diesel Range Organics	783	25.0	"	1000		78.3	75-125	0.266	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	44.5		"	50.0		89.0	70-130			

DRAFT REPORT

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GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

Organics by GC - Quality Control  
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4C2904 - TX 1005

Calibration Check (P4C2904-CCV1)				Prepared & Analyzed: 03/29/24						
Gasoline Range Organics	560	25.0	mg/kg	500		112	85-115			
Diesel Range Organics	551	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	85-115			
Surrogate: o-Terphenyl	44.5		"	50.0		88.9	85-115			
Calibration Check (P4C2904-CCV2)				Prepared & Analyzed: 03/29/24						
Gasoline Range Organics	551	25.0	mg/kg	500		110	85-115			
Diesel Range Organics	546	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	85-115			
Surrogate: o-Terphenyl	45.9		"	50.0		91.9	85-115			

DRAFT REPORT

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GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P4D0113 - *** DEFAULT PREP ***</b>										
<b>Blank (P4D0113-BLK1)</b>				Prepared & Analyzed: 04/01/24						
Chloride	ND	1.00	mg/kg							
<b>LCS (P4D0113-BS1)</b>				Prepared & Analyzed: 04/01/24						
Chloride	18.8		mg/kg	20.0		93.8	90-110			
<b>Calibration Check (P4D0113-CCV1)</b>				Prepared & Analyzed: 04/01/24						
Chloride	18.9		mg/kg	20.0		94.5	90-110			
<b>Calibration Check (P4D0113-CCV2)</b>				Prepared & Analyzed: 04/01/24						
Chloride	19.5		mg/kg	20.0		97.6	90-110			
<b>Matrix Spike (P4D0113-MS1)</b>				<b>Source: 4C27013-04</b>		Prepared & Analyzed: 04/01/24				
Chloride	104		mg/kg	100	4.00	100	80-120			
<b>Matrix Spike (P4D0113-MS2)</b>				<b>Source: 4C28013-29</b>		Prepared & Analyzed: 04/01/24				
Chloride	109		mg/kg	100	0.667	109	80-120			
<b>Matrix Spike Dup (P4D0113-MSD1)</b>				<b>Source: 4C27013-04</b>		Prepared & Analyzed: 04/01/24				
Chloride	105		mg/kg	100	4.00	101	80-120	0.488	20	
<b>Matrix Spike Dup (P4D0113-MSD2)</b>				<b>Source: 4C28013-29</b>		Prepared & Analyzed: 04/01/24				
Chloride	105		mg/kg	100	0.667	105	80-120	3.65	20	
<b>Batch P4D0115 - *** DEFAULT PREP ***</b>										
<b>Blank (P4D0115-BLK1)</b>				Prepared & Analyzed: 04/01/24						
% Moisture	ND	0.1	%							

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P4D0115 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P4D0115-BLK2)</b>	Prepared & Analyzed: 04/01/24									
% Moisture	ND	0.1	%							
<b>Blank (P4D0115-BLK3)</b>	Prepared & Analyzed: 04/01/24									
% Moisture	ND	0.1	%							
<b>Blank (P4D0115-BLK4)</b>	Prepared & Analyzed: 04/01/24									
% Moisture	ND	0.1	%							
<b>Blank (P4D0115-BLK5)</b>	Prepared & Analyzed: 04/01/24									
% Moisture	ND	0.1	%							
<b>Blank (P4D0115-BLK6)</b>	Prepared & Analyzed: 04/01/24									
% Moisture	ND	0.1	%							
<b>Duplicate (P4D0115-DUP1)</b>	<b>Source: 4C28006-09</b>		Prepared & Analyzed: 04/01/24							
% Moisture	8.0	0.1	%		7.0			13.3	20	
<b>Duplicate (P4D0115-DUP2)</b>	<b>Source: 4C28006-19</b>		Prepared & Analyzed: 04/01/24							
% Moisture	11.0	0.1	%		12.0			8.70	20	
<b>Duplicate (P4D0115-DUP3)</b>	<b>Source: 4C28006-34</b>		Prepared & Analyzed: 04/01/24							
% Moisture	7.0	0.1	%		7.0			0.00	20	
<b>Duplicate (P4D0115-DUP4)</b>	<b>Source: 4C28006-44</b>		Prepared & Analyzed: 04/01/24							
% Moisture	10.0	0.1	%		11.0			9.52	20	
<b>Duplicate (P4D0115-DUP5)</b>	<b>Source: 4C28007-11</b>		Prepared & Analyzed: 04/01/24							
% Moisture	5.0	0.1	%		6.0			18.2	20	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland	Project: Red Hills Release
2135 S. Loop 250 West	Project Number: 12626654
Midland TX, 79703	Project Manager: Mitchell Clemens

General Chemistry Parameters by EPA / Standard Methods - Quality Control  
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0115 - \*\*\* DEFAULT PREP \*\*\*

Duplicate (P4D0115-DUP6)	Source: 4C28007-21			Prepared & Analyzed: 04/01/24				
% Moisture	5.0	0.1	%	5.0		0.00	20	
Duplicate (P4D0115-DUP7)	Source: 4C28010-02			Prepared & Analyzed: 04/01/24				
% Moisture	4.0	0.1	%	5.0		22.2	20	R3
Duplicate (P4D0115-DUP8)	Source: 4C29001-09			Prepared & Analyzed: 04/01/24				
% Moisture	1.0	0.1	%	2.0		66.7	20	R3
Duplicate (P4D0115-DUP9)	Source: 4C28013-10			Prepared & Analyzed: 04/01/24				
% Moisture	2.0	0.1	%	2.0		0.00	20	
Duplicate (P4D0115-DUPA)	Source: 4C28013-20			Prepared & Analyzed: 04/01/24				
% Moisture	10.0	0.1	%	10.0		0.00	20	
Duplicate (P4D0115-DUPB)	Source: 4C28013-35			Prepared & Analyzed: 04/01/24				
% Moisture	5.0	0.1	%	3.0		50.0	20	R3
Duplicate (P4D0115-DUPC)	Source: 4C28013-45			Prepared & Analyzed: 04/01/24				
% Moisture	5.0	0.1	%	5.0		0.00	20	

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: \_\_\_\_\_



Date: 4/9/2024

Brent Barron, Laboratory Director/Technical Director

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235

GHD Services-Midland  
2135 S. Loop 250 West  
Midland TX, 79703

Project: Red Hills Release  
Project Number: 12626654  
Project Manager: Mitchell Clemens

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If you have received this material in error, please notify us immediately at 432-686-7235.

DRAFT REPORT

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1400 Rankin HWY Midland, TX 79701 432-686-7235







CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

L: \_\_\_\_\_ CH: \_\_\_\_\_ W: \_\_\_\_\_

Phone: 432-686-7235

Project Manager: Stephen Asante-Ansong  
Company Name: GHD  
Company Address: 2135 S loop 250 W  
City/State/Zip: Midland, TX, 79703  
Telephone No: 432-557-0215  
Sampler Signature:

Project Name: Red Hills Release  
Project #: 12626654  
Project Loc: Lea  
PO #: 2024-20  
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

Fax No: \_\_\_\_\_  
e-mail: Stephen.Asante-Ansong@ghd.com, mitchell.clemens@ghd.com

(lab use only)										1										Analyze For:										
ORDER #: <u>4628013</u>										Preservation & # of Containers										Matrix										
FIELD CODE										Matrix										Matrix										
LAB # (lab use only)	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water	SL=Sludge	GW=Groundwater	SS=Soil/Solid	NP=Non-Potable	Specify Other	TPH: TX 1005	TX 1006	Anions (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 802/B/5030 or BTEX 8260	Cl- (Method 300)	TCLP:	TOTAL:	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
11	SB-1 (45')	--	3/25/2024	13:44	N	1																X	X	X						X
12	SB-1 (50')	--	3/25/2024	13:48	N	1																X	X	X						X
13	SB-1 (55')	--	3/25/2024	13:52	N	1																X	X	X						X
14	SB-1 (60')	--	3/25/2024	13:56	N	1																X	X	X						X
15	SB-1 (65')	--	3/25/2024	14:00	N	1																X	X	X						X
16	SB-1 (70')	--	3/25/2024	14:04	N	1																X	X	X						X
17	SB-2A (2')	--	3/25/2024	10:38	N	1																X	X	X						X
18	SB-2A (4')	--	3/25/2024	10:42	N	1																X	X	X						X
19	SB-2A (6')	--	3/25/2024	10:46	N	1																X	X	X						X
20	SB-2A (8')	--	3/25/2024	10:50	N	1																X	X	X						X

Special Instructions:						Laboratory Comments:					
Relinquished by: <u></u> Date: <u>3-28-24</u> Time: <u>16:50</u>						Sample Containers Intact? <u>Y</u> <u>N</u>					
Relinquished by: _____ Date: _____ Time: _____						VOCs Free of Headspace? <u>Y</u> <u>N</u>					
Relinquished by: _____ Date: _____ Time: _____						Labels on container(s) <u>Y</u> <u>N</u>					
Relinquished by: _____ Date: _____ Time: _____						Custody seals on container(s) <u>Y</u> <u>N</u>					
Relinquished by: _____ Date: _____ Time: _____						Custody seals on cooler(s) <u>Y</u> <u>N</u>					
Relinquished by: _____ Date: _____ Time: _____						Sample Hand Delivered by Sampler/Client Rep. ? <u>Y</u> <u>N</u>					
Relinquished by: _____ Date: _____ Time: _____						by Courier? <u>Y</u> <u>N</u>					
Relinquished by: _____ Date: _____ Time: _____						Temperature Upon Receipt: <u>Y</u> <u>N</u>					
Relinquished by: _____ Date: _____ Time: _____						Received: <u>6-0</u> °C Thermometer: <u>13</u>					
Relinquished by: _____ Date: _____ Time: _____						Adjusted: <u>6-0</u> °C Factor: <u>13</u>					





**PBELAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: \_\_\_\_\_

CH: \_\_\_\_\_

W: \_\_\_\_\_

Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Stephen Asante-Ansong

Project Name: Red Hills Release

Company Name: GHD

Project #: 12626654

Company Address: 2135 S loop 250 W

Project Loc: Lea

City/State/Zip: Midland, TX, 79703

PO #: 2024-20

Telephone No: 432-557-0215

Fax No: \_\_\_\_\_

Report Format: ☐ Standard ☐ TRRP ☐ NPDESSampler Signature: *Mitchell Clemens*

e-mail: Stephen.Asante-Ansong@ghd.com, mitchell.clemens@ghd.com

Page 70 of 70

(lab use only)		1										Analyze For:										RUSH TAT (Pre-Schedule) 24, 48, 72 hrs															
ORDER #: 4028013		Preservation & # of Containers										Matrix										TCLP:															
LAB # (lab use only)		TOTAL:										TOTAL:										TOTAL:															
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: TX 1005	TX 1006	Anions (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	Cl- (Method 300)														
41	SB-5A (10')	--	--	3/25/2024	11:38	N	1												X		X	X															X
42	SB-5A (12')	--	--	3/25/2024	11:42	N	1												X		X	X															X
43	SB-5A (14')	--	--	3/25/2024	11:46	N	1												X		X	X															X
44	SB-5A (16')	--	--	3/25/2024	11:50	N	1												X		X	X															X
45	SB-5A (18')	--	--	3/25/2024	11:54	N	1												X		X	X															X
46	SB-5A (20')	--	--	3/25/2024	11:58	N	1												X		X	X															X
47	SB-4A(6')	--	--	3-28-2024	11:30	N	1												X		X	X															X
		--	--	3/25/2024		N	1												X		X	X															X
		--	--	3/25/2024		N	1												X		X	X															X
		--	--	3/25/2024		N	1												X		X	X															X

Special Instructions:				Laboratory Comments:			
Relinquished by: <i>Mitchell Clemens</i>	Date: 3-28-24	Time: 16:50	Received by:	Date:	Time:	Sample Containers Intact? Y	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	VOCs Free of Headspace? Y	
Relinquished by:	Date:	Time:	Received by: <i>Sara MC</i>	Date: 3/29/24	Time: 16:50	Labels on container(s) Y	
						Custody seals on container(s) Y	
						Custody seals on cooler(s) Y	
						Sample Hand Delivered by Sampler/Client Rep. ? Y	
						by Courier? UPS DHL FedEx Lone Star Y	
						Temperature Upon Receipt: NCF	
						Received: 6.0 °C Thermometer: 12	
						Adjusted: 6.0 °C Factor:	





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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 464626

**QUESTIONS**

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 464626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2329632113
Incident Name	NAPP2329632113 RED HILLS STATION RELEASE @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	RED HILLS STATION RELEASE
Date Release Discovered	10/19/2023
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Oil 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	Cause: Corrosion   Pipeline (Any)   Crude Oil   Released: 8 BBL   Recovered: 0 BBL   Lost: 8 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 464626

**QUESTIONS (continued)**

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 464626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Karolanne Hudgens Title: HSE Remediation Specialist II Email: karolanne.hudgens@plains.com Date: 05/19/2025
--	--



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QUESTIONS, Page 3

Action 464626

**QUESTIONS (continued)**

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID:
	34053
	Action Number: 464626
Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)	

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

**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)	161
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	36500
GRO+DRO (EPA SW-846 Method 8015M)	31990
BTEX (EPA SW-846 Method 8021B or 8260B)	201
Benzene (EPA SW-846 Method 8021B or 8260B)	10.2

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

On what estimated date will the remediation commence	10/26/2023
On what date will (or did) the final sampling or liner inspection occur	03/27/2024
On what date will (or was) the remediation complete(d)	12/12/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1000
What is the estimated volume (in cubic yards) that will be remediated	380

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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Action 464626

**QUESTIONS (continued)**

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 464626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Karolanne Hudgens Title: HSE Remediation Specialist II Email: karolanne.hudgens@plains.com Date: 05/19/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 464626

**QUESTIONS (continued)**

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 464626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Above ground and underground piping infrastructure associated with facility operations.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1400
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	2000
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	RED HILLS STATION [FRM1925327165]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Karolanne Hudgens Title: HSE Remediation Specialist II Email: karolanne.hudgens@plains.com Date: 05/19/2025

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Action 464626

**QUESTIONS (continued)**

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 464626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	322253
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/14/2024
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	2500

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	No
--	----

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CONDITIONS

Action 464626

CONDITIONS

Operator:  PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID:  34053
	Action Number:  464626
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	7/9/2025