	Page 1 of	77
Incident ID	NAPP2315954357	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 50 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	⊠ Yes □ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data	ls.

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody
Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 8/22/2023 10:34:35 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division Page 2 of 77

Incident ID NAPP2315954357

District RP
Facility ID
Application ID

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: Mitch Killough	Title:	Environmental Specialist					
Signature: mkillough@hilcorp.com							
OCD Only Received by:	Date:						

	Page 3 of	<i>77</i>
Incident ID	NAPP2315954357	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.							
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 							
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.							
Extents of contamination must be fully delineated.							
Contamination does not cause an imminent risk to human health, the environment, or groundwater.							
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: Mitch Killough Title: Environmental Specialist							
Signature:							
OCD Only							
Received by: Date: Approved							
Signature: Date:							

	Page 4 of 7	7
Incident ID	NAPP2315954357	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.							
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated 							
☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)							
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.							
Extents of contamination must be fully delineated.							
Contamination does not cause an imminent risk to human health, the environment, or groundwater.							
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:Mitch Killough Title:Environmental Specialist							
Signature: Date:8/11/2023							
email:mkillough@hilcorp.com Telephone: <u>713-757-5247</u>							
OCD Only							
Received by: Date:							
Approved							
Signature: Nelson Velez Date: 11/28/2023							
Demodiation when is accommon divide the fall entire and distant							
Remediation plan is approved with the following conditions;							

1. Soil Vapor Extraction Pilot Test to be completed by 02/26/2024.

2. Report of Pilot Test to be completed and submitted to OCD by 03/26/2024.



August 11, 2023

New Mexico Oil Conservation Division

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

Re: Site Characterization and Remediation Work Plan

> Pipkin Gas Com A #1E San Juan County, New Mexico Hilcorp Energy Company

NMOCD Incident Number: NAPP2315954357

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this Site Characterization and Remediation Work Plan associated with a release discovered at the Pipkin Gas Com A #1E natural gas production well pad (Site). The Site is located on federal land managed by the United States Bureau of Land Management (BLM) in Unit C, Section 7, Township 27 North, Range 10 West in San Juan County, New Mexico (Figure 1).

SITE BACKGROUND

Historical petroleum hydrocarbon impacts related to a below-grade tank (BGT) were discovered during BGT closure and well pad reclamation activities conducted on July 26, 2022. Analytical results collected on July 29, 2022 confirmed the presence of total petroleum hydrocarbon (TPH) concentrations exceeding the applicable New Mexico Oil Conservation Division (NMOCD) closure criteria. Once delineation activities were completed at the Site in April and May 2023 (as described in this document), Hilcorp estimated the release volume to be approximately 23 barrels based on laboratory analytical results obtained from soil samples and the approximate extent of soil impacts. The release was reported to the NMOCD on June 8, 2023 on a Form C-141, Release Notification. The release was assigned NMOCD Incident Number NAPP2315954357.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC).

The Site is located within the Nacimiento Geologic Formation. In the report titled "Hydrogeology and Water Resources of San Juan Basin, New Mexico" (Stone, et. al., 1983), the Nacimiento Formation is characterized by interbedded black carbonaceous mudstones and white, coarse-grained sandstones, which ranges in thickness from 418 feet to 2,232 feet. The hydrogeologic properties of the Nacimiento Formation display variable properties dependent on location. Where sufficient yield is present, the primary use of water from this formation is for domestic and/or livestock supply. The Nacimiento Formation is underlain by the Ojo Alamo sandstone (Stone et. al., 1983).

Hilcorp Energy Company Site Investigation Report and Remediation Work Plan Pipkin Gas Com A #1E

Page 2

The closest significant watercourse and wetland is an unnamed dry wash located 240 feet to the northeast of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake (Figure 1). The nearest fresh-water well is New Mexico Office of the State Engineer (NMOSE) permitted well SJ-00034 (Appendix A), located approximately 7,905 feet east of the Site. The recorded depth to water on the NMOSE database is 170 feet below ground surface (bgs). No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the BLM). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

Based on the information presented above and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria will be applied to the Site constituents of concern (COCs):

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 100 mg/kg
- Chloride: 600 mg/kg

SITE INVESTIGATION ACTIVITIES

In response to the discovery of soil impacts beneath the former BGT, Hilcorp performed initial delineation activities using a backhoe to pothole at the center of the former BGT location on October 28, 2022. Due to limitations of the equipment, samples were collected at a maximum depth of 14 feet bgs. During this event, samples were collected at depths of 8, 10, 12, and 14 feet bgs and submitted to Hall Environmental Analysis Laboratory (Hall) for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021B, TPH by EPA Method 8015M/D, and chloride by EPA Method 300.0. The soil sample was collected directly into laboratory-provided jars and immediately placed on ice. Laboratory analytical results indicated the presence of TPH at concentrations exceeding the NMOCD Table I Closure Criteria in all collected samples. A summary of analytical results is included in Table 1, with the complete laboratory analytical report attached as Appendix B.

Based on the initial field screening and sampling results, additional vertical and horizontal delineation with a drill rig was required. Ensolum submitted notice of sampling to the NMOCD at least 48 hours in advance of sampling activities (Appendix C). Due to inclement weather through the winter and spring of 2022 and 2023, additional delineation activities could not be performed until April 2023. Drilling activities took place on April 14, 2023 utilizing a Central Mining Equipment (CME) 75 hollow-stem auger drill rig operated by Enviro-Drill, Inc. with split-spoon sampling to advance a total of three borings (BH01 to BH03) to depths up to 35 feet bgs (Figure 2). Photographs taken during delineation activities are included in Appendix D. Because of the open pothole in the center of the former BGT location, as shown on Photograph 2 in Appendix D, a boring was not able to be advanced at this location during the April 2023 drilling effort.

During drilling, an Ensolum geologist logged lithology, inspected the soil for petroleum hydrocarbon staining and odors, and field screened for volatile organic compounds (VOCs) using a photoionization detector (PID), with results noted on the field logs (attached as Appendix E). In general, soil samples were collected from depth intervals indicating the greatest impacts based on field screening results and from the terminal depth of the borehole. Soil samples were collected directly into laboratory-provided jars and immediately placed on ice. Samples were submitted to Envirotech, Inc. or Hall for analysis of BTEX; TPH-GRO, TPH-DRO, TPH-MRO; and chloride by EPA Method 300.0.



Hilcorp Energy Company Site Investigation Report and Remediation Work Plan Pipkin Gas Com A #1E

Page 3

Soil composition at the Site was homogenous and primarily brown, dry, poorly sorted sand from the ground surface to depths up to 30 feet bgs. The poorly sorted sand was generally underlain by bluegrey, dry, sandy silt and/or siltstone/shale at an approximate depth of 30 feet bgs. Groundwater and/or saturated soils were not encountered in any of the borings during drilling. Laboratory analysis of the soil sample collected from boring BH01 at a depth of 25 feet bgs identified elevated concentrations of TPH exceeding the Table I Closure Criteria. All other soil samples analyzed during this delineation effort were in compliance with the applicable Closure Criteria for TPH, BTEX, and chloride. Laboratory analytical results from the initial drilling effort are summarized in Table 1 and Figure 2, with the complete laboratory analytical report attached in Appendix B.

ADDITIONAL DELINEATION ACTIVITIES

Based on the laboratory analytical results gathered during the April 2023 drilling event, additional drilling was conducted on May 17 and 18, 2023 to further delineate lateral impacts west of boring BH01 and to advance a boring at the center of the former BGT location. Field screening and soil sampling during the May 2023 drilling was performed as described above. All soil samples analyzed during the May 2023 delineation effort were in compliance with the applicable Closure Criteria for TPH, BTEX, and chloride. Laboratory analytical results from this event are included in Table 1 and Figure 2, with the complete laboratory analytical report also attached in Appendix B.

SVE WELL CONSTRUCTION AND INSTALLATION

Based on field screening during drilling, borings BH01 and BH04 were completed as soil vapor extraction (SVE) wells to be used for future remediation. Screened casing was installed across the subsurface interval with the highest petroleum hydrocarbon impacts based on PID readings in order to direct the applied vacuum to these depth intervals. Two nested SVE wells, SVE-1S (shallow) and SVE-1D (deep) were installed in boring BH04, located at the center of the former BGT. To address both shallow and deep impacts at this location, SVE-1S was constructed with 10 feet of screen placed at a depth of 5 feet to 15 feet bgs. SVE-1D was screened from 24 feet to 34 feet bgs in order to address potential deep impacts in this area and to provide an observation point for future pilot test activities. SVE well SVE-2 was installed in boring BH01 and was screened at a depth of 20 feet to 30 feet bgs.

SVE wells were constructed with 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 2-inch Schedule 40 PVC 0.010-inch slotted screen. Wells were completed with 10-20 silica sand pack to 2 feet above the screened interval, then hydrated bentonite seal to the ground surface. SVE well locations are shown on Figure 3.

REMEDIATION WORK PLAN

Based on the vertical extent of soil impacts and favorable soil lithology, Ensolum recommends the use of SVE techniques to remediate soil at the Site. As described by the EPA, SVE is an in-situ technique for the removal of VOCs and some semi-volatile organic compounds (SVOCs) from vadose zone soil through the application of vacuum to the subsurface. When air is removed from the soil, contaminants are volatilized and removed. Depending on contaminant concentrations in the removed air, the SVE system may emit exhaust directly to the atmosphere.

SVE PILOT TEST

Ensolum recommends performing an SVE pilot test to evaluate the effectiveness of SVE for the Site and, if applicable, assess the Site-specific flow and vacuum rates required to volatilize and remove contaminants from the impacted subsurface. Data collected during the SVE pilot test will be used to estimate the system's radius-of-influence (ROI) and radius-of-effect (ROE) to determine well spacing and the need for additional SVE wells at the Site.



A vacuum truck will be used to remove air at one SVE well at a time (used as the "extraction" well). Flow and vacuum rates will be measured at the extraction well using an adjustable manifold and vacuum responses will be measured in the other SVE wells at the Site (used as "observation" wells). The pilottest manifold will be used to control and incrementally increase vacuum being applied to the extraction well to assess the relationship between flow and vacuum. Vacuum measurements collected at the observation wells will be used to assess the ROI and ROE achievable at the Site. The following general procedures will be used to perform the SVE pilot test:

- 1. Collect initial VOC measurements using a PID from all SVE wells.
- 2. Attach a flexible hose from the vacuum truck to the SVE pilot test manifold. Connect the manifold to the first extraction well, start the vacuum truck, and slowly open the valve to increase flow and vacuum at the well.
- 3. During each test, apply a vacuum of approximately 10 inches of water column (IWC) and allow flow/vacuum measurements to stabilize for up to 15 minutes. Collect vacuum measurements and PID readings at each observation well once flow and vacuum have stabilized.
- 4. Increase the extraction well vacuum by 10 to 20 IWC, allow the vacuum/flow to stabilize, and collect observation well measurements as described below. Continue Steps 3 and 4 until 100 IWC is being applied at the extraction well or the vacuum truck capabilities are reached.
- 5. Close the manifold valve, allow the vacuum to dissipate, and collect PID readings from each observation well.
- 6. Collect air samples from the extraction wells in 1-liter Tedlar® bags and submit to Hall for analysis of BTEX and total volatile petroleum hydrocarbons (TVPH).

After completion of the SVE pilot test, Ensolum will prepare a *Pilot Test Report* summarizing the results of the test and recommendations for the design and construction of the full-scale SVE system. The report will include the calculations for ROI and ROE, system specifications required to remediate subsurface impacts, and, if determined feasible, an operation and maintenance (O&M) plan for the system and the proposed remediation schedule and timeline.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

We appreciate the opportunity to provide this document to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely, **Ensolum, LLC**

Stuart Hyde, LG Senior Geologist (970) 903-1607 shyde@ensolum.com

Daniel R. Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com



Hilcorp Energy Company Site Investigation Report and Remediation Work Plan Pipkin Gas Com A #1E

Page 5

Attachments:

Figure 1: Site Location Map

Figure 2: Soil Sample Analytical Results

Figure 3: SVE Well Locations

Table 1: Delineation Soil Sample Analytical Results

Appendix A: NMOSE Point of Diversion Summary

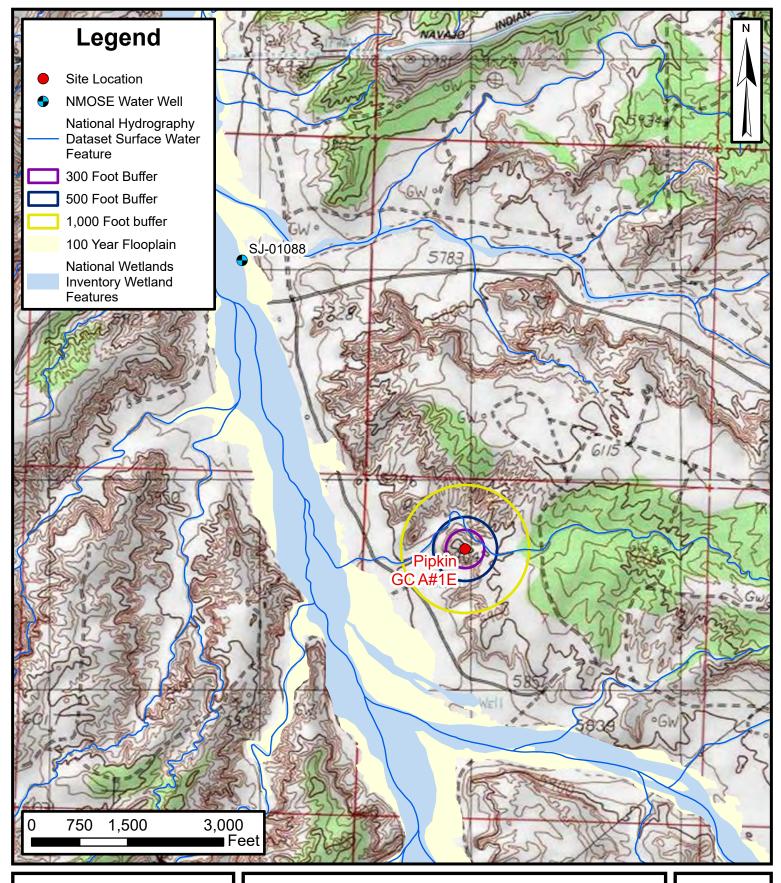
Appendix B: Laboratory Analytical Reports
Appendix C: Agency Sampling Notifications

Appendix D: Photographic Log Appendix E: Boring Logs





FIGURES

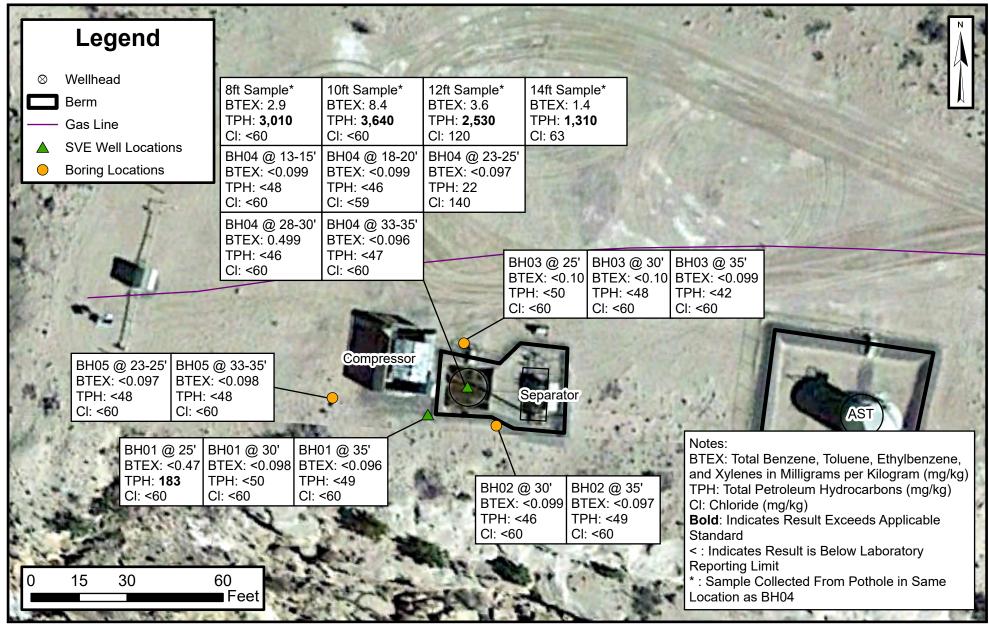




Site Location Map

Pipkin Gas Com A #1E Hilcorp Energy Company Unit C, Sec 7, T27N, R10W 36.59396, -107.94056 San Juan County, New Mexico FIGURE

1





Soil Sample Analytical Results

Pipkin Gas Com A #1E Hilcorp Energy Company Unit C, Sec 7, T27N, R10W 36.59396, -107.94056 San Juan County, New Mexico

FIGURE

2





SVE Well Locations

Pipkin Gas Com A #1E Hilcorp Energy Company Unit C, Sec 7, T27N, R10W 36.59396, -107.94056 San Juan County, New Mexico FIGURE 3



TABLES



TABLE 1

DELINEATION SOIL SAMPLE ANALYTICAL RESULTS

Pipkin Gas Com A #1E **Hilcorp Energy Company** San Juan County, New Mexico

Sample ID	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impactor Release		Impacted by a	10	50	NE	NE	NE	100	600
8ft Sample (1)	10/28/2022	8	<0.021	2.9	110	1,900	1,000	3,010	<60
10ft Sample (1)	10/28/2022	10	<0.018	8.4	260	2,400	980	3,640	<60
12ft Sample (1)	10/28/2022	12	< 0.020	3.6	200	1,700	630	2,530	120
14ft Sample (1)	10/28/2022	14	< 0.017	1.4	110	1,200	<500	1,310	63
BH01 @ 25'	4/14/2023	25	<0.12	< 0.47	<23	120	63	183	<60
BH01 @ 30'	4/14/2023	30	< 0.024	<0.098	<4.9	<10	<10 <50		<60
BH01 @ 35'	4/14/2023	35	< 0.024	< 0.096	<4.8	<9.7	<49	<49	<60
BH02 @ 30'	4/14/2023	30	< 0.025	< 0.099	<4.9	<9.2	<46	<46	<60
BH02 @ 35'	4/14/2023	35	< 0.024	< 0.097	<4.8	<9.7	<49	<49	<60
BH03 @ 25'	4/14/2023	25	< 0.025	<0.10	<5.0	<8.8	<50	<50	<60
BH03 @ 30'	4/14/2023	30	< 0.025	<0.10	<5.0	<9.6	<48	<48	<60
BH03 @ 35'	4/14/2023	35	< 0.025	< 0.099	<5.0	<8.4	<42	<42	<60
BH-04 (13-15ft)	5/17/2023	13-15	< 0.025	< 0.099	<4.9	<9.6	<48	<48	<60
BH-04 (18-20ft)	5/17/2023	18-20	< 0.025	< 0.099	<4.9	<9.3	<46	<46	<59
BH-04 (23-25ft)	5/17/2023	23-25	< 0.024	< 0.097	<4.8	22	<47	22	140
BH-04 (28-30ft)	5/17/2023	28-30	< 0.025	0.499	<4.9	<9.3	<46	<46	<60
BH-04 (33-35ft)	5/17/2023	33-35	< 0.024	<0.096	<4.8	<9.4	<47	<47	<60
BH05 23-25'	5/18/2023	23-25	<0.024	< 0.097	<4.9	<9.7	<48	<48	<60
BH05 33-35'	5/18/2023	33-35	< 0.025	<0.098	<4.9	<9.7	<48	<48	<60

(1): sample collected from pothole in same location as BH04

bgs: below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

': feet

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for

Soils Impacted by a Release



APPENDIX A

NMOSE Point of Diversion Summary



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

2 2 2 00 27N 10W

X Y

3 2 2 08 27N 10W

239378 4053822*

Driller License: Driller Company:

Driller Name: CONLEY COX

SJ 00034

Drill Start Date: 10/01/1951 **Dr**

Drill Finish Date: 10/09/1951 **Plug Date:**

Log File Date: 12/16/1953 **PCW Rcv Date:**

Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 10.00 Depth Well: 235 feet Depth Water: 170 feet

Water Bearing Stratifications: Top Bottom Description

170 230 Other/Unknown

Casing Perforations: Top Bottom

170 235

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

12/20/22 9:41 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



APPENDIX B

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 07, 2022

Fasho Trujillo HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733 FAX:

RE: Pipkin Gas Com A1E OrderNo.: 2210E71

Dear Fasho Trujillo:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/29/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2210E71

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/7/2022

CLIENT: HILCORP ENERGY Client Sample ID: 8ft Sample

Project: Pipkin Gas Com A1E Collection Date: 10/28/2022 8:40:00 AM

Lab ID: 2210E71-001 **Matrix:** MEOH (SOIL) **Received Date:** 10/29/2022 8:45:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: DGH
Diesel Range Organics (DRO)	1900	150		mg/Kg	10	11/1/2022 9:54:16 AM
Motor Oil Range Organics (MRO)	1000	500		mg/Kg	10	11/1/2022 9:54:16 AM
Surr: DNOP	0	21-129	S	%Rec	10	11/1/2022 9:54:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	110	4.2		mg/Kg	1	10/30/2022 7:21:30 AM
Surr: BFB	733	37.7-212	S	%Rec	1	10/30/2022 7:21:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	10/30/2022 7:21:30 AM
Toluene	ND	0.042		mg/Kg	1	10/30/2022 7:21:30 AM
Ethylbenzene	ND	0.042		mg/Kg	1	10/30/2022 7:21:30 AM
Xylenes, Total	2.9	0.084		mg/Kg	1	10/30/2022 7:21:30 AM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	10/30/2022 7:21:30 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	11/1/2022 4:08:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

of ph Not in Range Page 1 of 8

Analytical Report

Lab Order **2210E71**Date Reported: **11/7/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 10ft Sample

Project: Pipkin Gas Com A1E **Collection Date:** 10/28/2022 8:52:00 AM

Lab ID: 2210E71-002 **Matrix:** MEOH (SOIL) **Received Date:** 10/29/2022 8:45:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	2400	150		mg/Kg	10	11/1/2022 11:35:21 AM
Motor Oil Range Organics (MRO)	980	480		mg/Kg	10	11/1/2022 11:35:21 AM
Surr: DNOP	0	21-129	S	%Rec	10	11/1/2022 11:35:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	260	3.7		mg/Kg	1	10/30/2022 7:44:52 AM
Surr: BFB	2060	37.7-212	S	%Rec	1	10/30/2022 7:44:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	10/30/2022 7:44:52 AM
Toluene	ND	0.037		mg/Kg	1	10/30/2022 7:44:52 AM
Ethylbenzene	0.49	0.037		mg/Kg	1	10/30/2022 7:44:52 AM
Xylenes, Total	7.9	0.74		mg/Kg	10	10/31/2022 11:20:45 AM
Surr: 4-Bromofluorobenzene	252	70-130	S	%Rec	1	10/30/2022 7:44:52 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	11/1/2022 5:10:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 8

2210E71-003

Lab ID:

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report

Lab Order 2210E71 Date Reported: 11/7/2022

10/30/2022 8:31:34 AM

10/30/2022 8:31:34 AM

11/1/2022 5:22:44 PM

Analyst: NAI

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 12ft Sample

mg/Kg

%Rec

mg/Kg

1

1

20

Received Date: 10/29/2022 8:45:00 AM

Project: Pipkin Gas Com A1E Collection Date: 10/28/2022 9:06:00 AM Matrix: MEOH (SOIL)

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 1700 150 mg/Kg 10 11/1/2022 12:07:23 PM Motor Oil Range Organics (MRO) 630 500 mg/Kg 10 11/1/2022 12:07:23 PM Surr: DNOP 0 21-129 S %Rec 10 11/1/2022 12:07:23 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 200 10/30/2022 8:31:34 AM 3.9 mg/Kg 1 Surr: BFB 1810 37.7-212 S %Rec 1 10/30/2022 8:31:34 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 10/30/2022 8:31:34 AM 0.020 mg/Kg 1 Toluene ND 0.039 mg/Kg 1 10/30/2022 8:31:34 AM Ethylbenzene ND 0.039 mg/Kg 1 10/30/2022 8:31:34 AM

3.6

228

120

0.079

70-130

60

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated
- Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit

Page 3 of 8

Analytical Report

Lab Order 2210E71 Date Reported: 11/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 14ft Sample

Project: Pipkin Gas Com A1E Collection Date: 10/28/2022 9:19:00 AM

2210E71-004 Lab ID: Matrix: MEOH (SOIL) Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst: DGH
Diesel Range Organics (DRO)	1200	74		mg/Kg	5	11/3/2022 12:43:06 PM
Motor Oil Range Organics (MRO)	530	250		mg/Kg	5	11/3/2022 12:43:06 PM
Surr: DNOP	112	21-129		%Rec	5	11/3/2022 12:43:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	110	3.5		mg/Kg	1	10/30/2022 8:54:57 AM
Surr: BFB	1260	37.7-212	S	%Rec	1	10/30/2022 8:54:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	10/30/2022 8:54:57 AM
Toluene	ND	0.035		mg/Kg	1	10/30/2022 8:54:57 AM
Ethylbenzene	ND	0.035		mg/Kg	1	10/30/2022 8:54:57 AM
Xylenes, Total	1.4	0.070		mg/Kg	1	10/30/2022 8:54:57 AM
Surr: 4-Bromofluorobenzene	144	70-130	S	%Rec	1	10/30/2022 8:54:57 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	63	60		mg/Kg	20	11/1/2022 5:35:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε
- J Analyte detected below quantitation limits
- RL Reporting Limit

Sample pH Not In Range Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

2210E71 07-Nov-22

WO#:

Client: HILCORP ENERGY
Project: Pipkin Gas Com A1E

Sample ID: MB-71198 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 71198 RunNo: 92252

Prep Date: 11/1/2022 Analysis Date: 11/1/2022 SeqNo: 3313633 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

 Sample ID:
 LCS-71198
 SampType:
 Ics
 TestCode:
 EPA Method 300.0:
 Anions

 Client ID:
 LCSS
 Batch ID:
 71198
 RunNo:
 92252

 Prep Date:
 11/1/2022
 Analysis Date:
 11/1/2022
 SeqNo:
 3313634
 Units:
 mg/Kg

RPDLimit Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual 97.5 Chloride 15 1.5 15.00 110

Sample ID: MB-71218 TestCode: EPA Method 300.0: Anions SampType: mblk Client ID: PBS Batch ID: 71218 RunNo: 92252 Prep Date: Analysis Date: 11/1/2022 SeqNo: 3313663 Units: mg/Kg 11/1/2022 Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit

TestCode: EPA Method 300.0: Anions

Chloride ND 1.5

Client ID: LCSS Batch ID: 71218 RunNo: 92252

SampType: Ics

Prep Date: 11/1/2022 Analysis Date: 11/1/2022 SeqNo: 3313664 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte LowLimit Chloride 14 1.5 15.00 n 96.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Sample ID: LCS-71218

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

9.0

07-Nov-22

2210E71

WO#:

Client: HILCORP ENERGY **Project:** Pipkin Gas Com A1E

Sample ID: LCS-71171 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 71171 RunNo: 92198 Units: mg/Kg Prep Date: 10/31/2022 Analysis Date: 10/31/2022 SeqNo: 3311075 PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 46 15 50.00 0 92.2 64.4 127 Surr: DNOP 4.4 5.000 88.2 21 129

Sample ID: MB-71171 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 71171 RunNo: 92198 Prep Date: 10/31/2022 Analysis Date: 10/31/2022 SeqNo: 3311076 Units: mg/Kg LowLimit Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50

90.3

21

129

10.00

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

2210E71 07-Nov-22

WO#:

Client: HILCORP ENERGY **Project:** Pipkin Gas Com A1E

Sample ID: mb-II SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: **B92186** RunNo: 92186

Prep Date: Analysis Date: 10/30/2022 SeqNo: 3309782 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result LowLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 930 1000 92.6 37.7 212

Sample ID: 2.5ug gro Ics-II SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: **B92186** RunNo: 92186

1900

Prep Date: Analysis Date: 10/30/2022 SeqNo: 3309783 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 25.00 99.4 72.3

195

37.7

212

Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

2210E71 07-Nov-22

WO#:

Client: HILCORP ENERGY
Project: Pipkin Gas Com A1E

Sample ID: mb-II	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les			
Client ID: PBS	Batcl	h ID: D9 :	2186	RunNo: 92186							
Prep Date:	Analysis [Date: 10	/30/2022	SeqNo: 3309819			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130				

Sample ID: 100ng btex Ics-II	Samp ⁻	Type: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: D9 :	2186	F	RunNo: 92	2186				
Prep Date:	Analysis I	Date: 10	/30/2022	SeqNo: 3309820			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 8

ENVIRONMENTAL

ANALYSIS

LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 11/28/2023 10:45:13 AM

LABORATORY	Website: wwi	v.hallenvironmental.	.com		_
Client Name: HILCORP ENERGY	Work Order Num	ber: 2210E71		RcptNo: 1	
Received By: Tracy Casarrubias	10/29/2022 8:45:00	AM			
Completed By: Tracy Casarrubias	10/29/2022 9:45:11	AM			
Reviewed By:					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
<u>Log In</u> 3. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗌	na 🗆	
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🔽	No 🗆	na 🗆	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗆		
6. Sufficient sample volume for indicated tes	ıt(s)?	Yes 🗹	No 🗆		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌	_	
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers received bro	oken?	Yes 📙	No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12	unless noted)
12. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	/ A	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	10/29/2
Special Handling (if applicable)					
15. Was client notified of all discrepancies wi	ith this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date	,	hone Fax	☐ In Person	
By Whom: Regarding:	Via:	eMail F	HOHE Fax	III F GESON	
Client Instructions: 16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 2.5 Good	766		12		

	Turn-Around	Time:	and the appropriate of the second pro-	HALL ENVIRONMENTAL																
Client:	tila	mp			Rush e:	Con AIE	ANALYSIS LABORATORY www.hallenvironmental.com													
Mailing A	ddress	:382	2CR3100	P. P. pl	Pipkin Gas Com AIE			4901 Hawkins NE - Albuquerque, NM 87109												
		C		Project #:	r i de di z	1. 1. 1 4/1 (C.m. 2)	Tel. 505-345-3975 Fax 505-345-4107													
Phone #:		505	5993400	111111	nes i necveni	age management to the						ALC: NO DESCRIPTION	000000000000000000000000000000000000000	and the same of the same of	or other Designation of the last	uest	_	-		
email or l QA/QC Pa □ Standa	Fax#: KKaufman Ohilopo Package: ETNLJIII o Ohiloopo. Ka				Fasho Tryillo			TPH:8015D(GRO / DRO / MRO)	PCB's		8270SIMS		Ci. F. Br, NO3, NO2, PO4, SO4	s. korti - prijet-	1 - 1 de 1,1 mg	Total Coliform (Present/Absent)				
Accredita		□ Az Co □ Other	mpliance	Sampler: F	Sampler: FTmjillo On Ice: Syes □ No			30 / DR	s/8082	504.1)	ㅎ	S	3, NO ₂ ,		AC)	(Preser				
□ EDD ((Type) <u> </u>				# of Coolers: \\ Cooler Temp(including CF): \(\frac{2.4}{2.4} \rightarrow 0.1 = 2.5 \) (°C)		/ MTBE	715D(GF	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	3r, NO3,	/OA)	8270 (Semi-VOA)	Soliform				
			Sample Name	Container Type and #	Preservative Type	HEAL NO. 2210671	BTEX/	TPH:80	8081 F	EDB (1	PAHs	RCRA	(<u>C</u>)	8260 (VOA)	8270 (Total C		in to	10-1	
10/28/22		Soil	8ft Sample		1	001	X	X		_	_	_	X			Apana			3 11 1 11 11	\bot
10/28/25	8:52	501	10ft Sample 12ft Sample		Cold	002	X	X		100	Kerjes) Mikros	HE ALL	X	SS HARR	iby.	u (B)	1000		(19)	++
10/28/22	919	Spil	14ft Sample	Hm 616001	Cold	004	X	Х	-		i de la companya de l		X	ratific Larghi	Figure 1		100	763 10 1075 10		
		alta est	11 11 11 11			MAY THE PARTY OF T				200	per W	5- 12	eserie	Ep Ly	ge jalik Ipitwala	seseni.	15/63/18			
					CHICE AND THE SECOND SE	According to the control of the second		100			Ja a		101 (87) (101)	rape est	er er	21 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	355	77.7		
					on range (see	property and the control of the cont						# 100 200	- 13A 796	ser derif					71	
				17 - 0700 **********************************	A CAN THE CONTRACT OF THE CONT	a the mandata with most con-				Mar.	nt en	ne se	na siya waka a	r patro	AV CHEN	relativ na Ang				++
10/28/22	ime: 13/5 ime:	Relinquish	shot	Received by:	Via: Wuxt Via:	Date Time - 10/28/12 13/5 Date Time	1315					1								



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 24, 2023

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Pipkin GC A 1E OrderNo.: 2304669

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/15/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2304669**Date Reported: **4/24/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH01@25'

 Project:
 Pipkin GC A 1E
 Collection Date: 4/14/2023 10:50:00 AM

 Lab ID:
 2304669-001
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	120	9.6		mg/Kg	1	4/20/2023 4:58:44 PM
Motor Oil Range Organics (MRO)	63	48		mg/Kg	1	4/20/2023 4:58:44 PM
Surr: DNOP	90.3	69-147		%Rec	1	4/20/2023 4:58:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	4/20/2023 2:33:00 PM
Surr: BFB	97.9	37.7-212	D	%Rec	5	4/20/2023 2:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.12	D	mg/Kg	5	4/20/2023 2:33:00 PM
Toluene	ND	0.23	D	mg/Kg	5	4/20/2023 2:33:00 PM
Ethylbenzene	ND	0.23	D	mg/Kg	5	4/20/2023 2:33:00 PM
Xylenes, Total	ND	0.47	D	mg/Kg	5	4/20/2023 2:33:00 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	D	%Rec	5	4/20/2023 2:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	4/21/2023 6:10:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

Analytical Report Lab Order 2304669

Date Reported: 4/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH01@30'

Project: Pipkin GC A 1E **Collection Date:** 4/14/2023 11:00:00 AM 2304669-002 Lab ID: Matrix: SOIL **Received Date:** 4/15/2023 8:40:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/20/2023 5:09:25 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/20/2023 5:09:25 PM
Surr: DNOP	82.9	69-147		%Rec	1	4/20/2023 5:09:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/20/2023 2:54:00 PM
Surr: BFB	139	37.7-212		%Rec	1	4/20/2023 2:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/20/2023 2:54:00 PM
Toluene	ND	0.049		mg/Kg	1	4/20/2023 2:54:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/20/2023 2:54:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/20/2023 2:54:00 PM
Surr: 4-Bromofluorobenzene	131	70-130	S	%Rec	1	4/20/2023 2:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	4/21/2023 6:22:35 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Page 2 of 12 Reporting Limit

Analytical Report Lab Order 2304669

Date Reported: 4/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH01@35'

 Project:
 Pipkin GC A 1E
 Collection Date: 4/14/2023 11:10:00 AM

 Lab ID:
 2304669-003
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/20/2023 5:20:07 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/20/2023 5:20:07 PM
Surr: DNOP	103	69-147	%Rec	1	4/20/2023 5:20:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/20/2023 3:16:00 PM
Surr: BFB	89.0	37.7-212	%Rec	1	4/20/2023 3:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/20/2023 3:16:00 PM
Toluene	ND	0.048	mg/Kg	1	4/20/2023 3:16:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/20/2023 3:16:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/20/2023 3:16:00 PM
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	4/20/2023 3:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	4/21/2023 6:34:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 12

Analytical Report

Lab Order **2304669**Date Reported: **4/24/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH02@30'

 Project:
 Pipkin GC A 1E
 Collection Date: 4/14/2023 12:40:00 PM

 Lab ID:
 2304669-004
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/20/2023 5:41:20 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/20/2023 5:41:20 PM
Surr: DNOP	84.8	69-147	%Rec	1	4/20/2023 5:41:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/20/2023 3:37:00 PM
Surr: BFB	92.0	37.7-212	%Rec	1	4/20/2023 3:37:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/20/2023 3:37:00 PM
Toluene	ND	0.049	mg/Kg	1	4/20/2023 3:37:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/20/2023 3:37:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/20/2023 3:37:00 PM
Surr: 4-Bromofluorobenzene	86.8	70-130	%Rec	1	4/20/2023 3:37:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	4/21/2023 6:47:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 12

Analytical Report

Lab Order 2304669 Date Reported: 4/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH02@35'

Project: Pipkin GC A 1E Collection Date: 4/14/2023 12:50:00 PM 2304669-005 Lab ID: Matrix: SOIL **Received Date:** 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/20/2023 5:52:00 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/20/2023 5:52:00 PM
Surr: DNOP	92.3	69-147	%Rec	1	4/20/2023 5:52:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/20/2023 3:59:00 PM
Surr: BFB	90.4	37.7-212	%Rec	1	4/20/2023 3:59:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/20/2023 3:59:00 PM
Toluene	ND	0.048	mg/Kg	1	4/20/2023 3:59:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/20/2023 3:59:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/20/2023 3:59:00 PM
Surr: 4-Bromofluorobenzene	88.4	70-130	%Rec	1	4/20/2023 3:59:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	4/21/2023 6:59:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Reporting Limit

Page 5 of 12

Analytical Report Lab Order 2304669

Date Reported: 4/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH03@25'

 Project:
 Pipkin GC A 1E
 Collection Date: 4/14/2023 2:00:00 PM

 Lab ID:
 2304669-006
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	4/20/2023 6:02:40 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/20/2023 6:02:40 PM
Surr: DNOP	83.8	69-147	%Rec	1	4/20/2023 6:02:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/20/2023 4:42:00 PM
Surr: BFB	90.4	37.7-212	%Rec	1	4/20/2023 4:42:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/20/2023 4:42:00 PM
Toluene	ND	0.050	mg/Kg	1	4/20/2023 4:42:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/20/2023 4:42:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/20/2023 4:42:00 PM
Surr: 4-Bromofluorobenzene	84.5	70-130	%Rec	1	4/20/2023 4:42:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	4/21/2023 7:37:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 12

CLIENT: HILCORP ENERGY

Pipkin GC A 1E

2304669-007

Project:

Lab ID:

Analytical Report

Lab Order **2304669**Date Reported: **4/24/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH03@30'

Collection Date: 4/14/2023 2:20:00 PM

Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/20/2023 6:13:24 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/20/2023 6:13:24 PM
Surr: DNOP	73.2	69-147	%Rec	1	4/20/2023 6:13:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/20/2023 5:03:00 PM
Surr: BFB	90.2	37.7-212	%Rec	1	4/20/2023 5:03:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/20/2023 5:03:00 PM
Toluene	ND	0.050	mg/Kg	1	4/20/2023 5:03:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/20/2023 5:03:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/20/2023 5:03:00 PM
Surr: 4-Bromofluorobenzene	86.4	70-130	%Rec	1	4/20/2023 5:03:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	4/21/2023 7:49:26 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 12

CLIENT: HILCORP ENERGY

Analytical Report

Lab Order **2304669**Date Reported: **4/24/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH03@35'

 Project:
 Pipkin GC A 1E
 Collection Date: 4/14/2023 2:30:00 PM

 Lab ID:
 2304669-008
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 8.4 mg/Kg 1 4/20/2023 6:24:07 PM Motor Oil Range Organics (MRO) ND 42 mg/Kg 1 4/20/2023 6:24:07 PM Surr: DNOP 69.4 69-147 %Rec 1 4/20/2023 6:24:07 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/20/2023 5:25:00 PM 5.0 mg/Kg 1 Surr: BFB 91.1 37.7-212 %Rec 1 4/20/2023 5:25:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/20/2023 5:25:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 4/20/2023 5:25:00 PM Ethylbenzene ND 0.050 mg/Kg 1 4/20/2023 5:25:00 PM Xylenes, Total ND mg/Kg 4/20/2023 5:25:00 PM 0.099 1 Surr: 4-Bromofluorobenzene 88.6 70-130 %Rec 1 4/20/2023 5:25:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 8:01:51 PM ND 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304669 24-Apr-23**

Client: HILCORP ENERGY
Project: Pipkin GC A 1E

Sample ID: MB-74444 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74444 RunNo: 96239

Prep Date: 4/20/2023 Analysis Date: 4/21/2023 SeqNo: 3484717 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-74444 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74444 RunNo: 96239

Prep Date: 4/20/2023 Analysis Date: 4/21/2023 SeqNo: 3484718 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304669 24-Apr-23**

Client: HILCORP ENERGY
Project: Pipkin GC A 1E

Sample ID: MB-74430 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics PBS Client ID: Batch ID: 74430 RunNo: 96162 Prep Date: 4/19/2023 Analysis Date: 4/20/2023 SeqNo: 3482718 Units: %Rec SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual

Surr: DNOP 7.9 10.00 79.3 69 147

Sample ID: LCS-74430 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 74430 RunNo: 96162 Prep Date: 4/19/2023 Analysis Date: 4/20/2023 SeqNo: 3482719 Units: %Rec %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit Qual Surr: DNOP 4.8 5.000 96.6 69 147

Sample ID: MB-74418 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 74418 Prep Date: Analysis Date: 4/20/2023 SeqNo: 3482949 Units: mg/Kg 4/19/2023 Analyte Result POI SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10 10.00 104 69 147

Sample ID: LCS-74418 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 74418 RunNo: 96162 Prep Date: Analysis Date: 4/20/2023 SeqNo: 3483127 4/19/2023 Units: mg/Kg SPK value Analyte Result POI SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 41 10 50.00 0 81.6 61.9 130 Surr: DNOP 4.0 5.000 79.1 69 147

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 12

Pipkin GC A 1E

Project:

Sample ID: mb-74410

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304669 24-Apr-23**

Client: HILCORP ENERGY

Sample ID: Ics-74410 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS Batch ID: 74410 RunNo: 96201

Prep Date: 4/19/2023 Analysis Date: 4/20/2023 SeqNo: 3483284 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: BFB
 2000
 1000
 195
 37.7
 212

SampType: MBLK

Client ID: PBS Batch ID: 74410 RunNo: 96201 Prep Date: 4/19/2023 Analysis Date: 4/20/2023 SeqNo: 3483285 **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Surr: BFB 900 1000 89.6 37.7 212

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: Ics-74401 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 74401 RunNo: 96201 Prep Date: Analysis Date: 4/20/2023 SeqNo: 3483312 Units: mg/Kg 4/18/2023 SPK value SPK Ref Val Result PQL %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Gasoline Range Organics (GRO) 23 5.0 0 93.2 70 25.00 130 Surr: BFB 2000 1000 201 37.7 212

Sample ID: mb-74401 TestCode: EPA Method 8015D: Gasoline Range SampType: MBLK Client ID: PBS Batch ID: 74401 RunNo: 96201 Units: mg/Kg Prep Date: 4/18/2023 Analysis Date: 4/20/2023 SeqNo: 3483313 %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 900 1000 90.4 37.7 212

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

2304669

WO#:

24-Apr-23

Client: HILCORP ENERGY **Project:** Pipkin GC A 1E

Sample ID: Ics-74401	SampType:	LCS	Tes	stCode: EF	PA Method	8021B: Volati	les				
Client ID: LCSS	Batch ID:	74401	F	RunNo: 90	6201						
Prep Date: 4/18/2023	Analysis Date:	4/20/2023	;	SeqNo: 34	483335	Units: mg/K	g				
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.87 0.0	25 1.000	0	87.1	80	120					
Toluene	0.87 0.0	50 1.000	0	87.4	80	120					
Ethylbenzene	0.86 0.0	50 1.000	0	85.8	80	120					
Xylenes, Total	2.5 0.	10 3.000	0	84.7	80	120					
Surr: 4-Bromofluorobenzene	0.88	1.000		88.2	70	130					
Sample ID: mb-74401	pple ID: mb-74401 SampType: MBLK TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS	Batch ID:	74401	RunNo: 96201								
Prep Date: 4/18/2023	Analysis Date:	4/20/2023	;	SeqNo: 34	483336	Units: mg/K	g				
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND 0.0	25									
Toluene	ND 0.0	50									
Ethylbenzene	ND 0.0	50									
Xylenes, Total	ND 0.	10									
Surr: 4-Bromofluorobenzene	0.85	1.000		85.1	70	130					
Sample ID: Ics-74410	SampType:	LCS	Tes	stCode: EF	PA Method	8021B: Volati	les				
Client ID: LCSS	Batch ID:	74410	F	RunNo: 90	6201						
Prep Date: 4/19/2023	Analysis Date:	4/20/2023	;	SeqNo: 34	483359	Units: %Rec					
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	0.87	1.000		86.9	70	130					
Sample ID: mb-74410	SampType:	MBLK	Tes	stCode: EF	PA Method	8021B: Volati	les				
Client ID: PBS	Batch ID:	74410	F	RunNo: 90	6201						
Prep Date: 4/19/2023	Analysis Date:	4/20/2023	;	SeqNo: 34	483360	Units: %Rec					
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.

0.85

1.000

Analyte detected in the associated Method Blank

85.1

130

- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 12 of 12



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 11/28/2023 10:45:13 AM

Website: w	ww.hallenvironmenta	il.com		
Client Name: HILCORP ENERGY Work Order Nu	ımber: 2304669		RcptNo:	1
Received By: Cheyenne Cason 4/15/2023 8:40:0	O AM	Chul		
Completed By: Desiree Dominguez 4/17/2023 9:39:4/	6 AM	TA		
Reviewed By: W 4/17/23				
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?	Client			
<u>Log In</u>				
3. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	na 🗌	
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in proper container(s)?	Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆	
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
(). Were any sample containers received broken?	Yes 🗌	No 🗹	# of preserved bottles checked	
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	for pH:	>12 unless noted)
2. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what analyses were requested?	Yes 🗹	No 🗌		1 - 1
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🔽	No 🗌	Checked by:	my/17/2
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified: Dat	te:			
By Whom: Via	ı: 🗌 eMail 🔲 l	Phone 🗌 Fax	n Person	
Regarding:	Maria American Sant Area Maria		and a subsequently decided and and	
Client Instructions:				
16. Additional remarks:				

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes	Morty		

С	hain	-of-Cu	istody Record	Turn-Around	7.44					Н	ΙΔΙ	1	FN	v	TE	20	NM	IEN	JT/	AL.
Client:	Hile	OFP 6	Energy	Standard	າງ ເຂັດ d □ Rush		-										SOF			
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	Address			Pipki	n GC	AHIE		490	01 H								M 871	09		
				Project #:						5-34							4107			
Phone #							P					Α	naly	sis I	Req	uest				
email o	r Fax#:	K Kaut	mand hillow.com	Project Mana	ager:		=						SO4	r unio		£		Acres 100		
QA/QC I	Package: dard		□ Level 4 (Full Validation)	Stuar	+ Hyde		's (8021)	TPH:8015D(GRO / DRO / MRO)	PCB's		8270SIMS	e de la constante de la consta	PO ₄ ,	##P. (1)	10	Total Coliform (Present/Absent)				
Accredi	tation:	□ Az Co	mpliance	Sampler:	Jamy B	NTNS	100	뜅	082	=	827(NO ₂ ,			eser			J. 1	
□ NEL		☐ Other		On Ice:	Yes Yes	□ No Marty	1 \ \	8	8/se	504	5	8			OA)	P.	100	S. Jan		
□ EDD	(Type)	I		# of Coolers		1 1-490	A	8	icide	٦	3310	feta	8	2	٦-j-	E O				
	177			Cooler Temp	O(Including CF):	.8-0.124.7(°C)	ĮΣ\	015	est	Wett	by 8	8	B,	9	Sen	등				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	2304669	BTEX MIBET	трн:8	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	Cl F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total (
4-14-23	1050	Soil	BH01@25'	1-402	(00)	-001	X	X					X						111	42.1
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 31, 2023

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733

FAX

RE: Pipkin OrderNo.: 2305B01

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/20/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH-04(13-15ft)

 Project:
 Pipkin
 Collection Date: 5/17/2023 2:00:00 PM

 Lab ID:
 2305B01-001
 Matrix: SOIL
 Received Date: 5/20/2023 9:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/25/2023 10:35:27 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/25/2023 10:35:27 AM
Surr: DNOP	106	69-147	%Rec	1	5/25/2023 10:35:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/26/2023 12:01:00 AM
Surr: BFB	88.2	15-244	%Rec	1	5/26/2023 12:01:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	5/26/2023 12:01:00 AM
Toluene	ND	0.049	mg/Kg	1	5/26/2023 12:01:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/26/2023 12:01:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/26/2023 12:01:00 AM
Surr: 4-Bromofluorobenzene	83.9	39.1-146	%Rec	1	5/26/2023 12:01:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	5/25/2023 1:49:02 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 14

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH-04(18-20ft)

 Project:
 Pipkin
 Collection Date: 5/17/2023 2:05:00 PM

 Lab ID:
 2305B01-002
 Matrix: SOIL
 Received Date: 5/20/2023 9:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/25/2023 10:46:02 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/25/2023 10:46:02 AM
Surr: DNOP	110	69-147	%Rec	1	5/25/2023 10:46:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/26/2023 12:23:00 AM
Surr: BFB	83.4	15-244	%Rec	1	5/26/2023 12:23:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	5/26/2023 12:23:00 AM
Toluene	ND	0.049	mg/Kg	1	5/26/2023 12:23:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/26/2023 12:23:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/26/2023 12:23:00 AM
Surr: 4-Bromofluorobenzene	82.0	39.1-146	%Rec	1	5/26/2023 12:23:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	59	mg/Kg	20	5/25/2023 2:01:27 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 14

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH-04(23-25ft)

 Project:
 Pipkin
 Collection Date: 5/17/2023 2:10:00 PM

 Lab ID:
 2305B01-003
 Matrix: SOIL
 Received Date: 5/20/2023 9:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	22	9.4	mg/Kg	1	5/25/2023 10:56:37 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/25/2023 10:56:37 AM
Surr: DNOP	103	69-147	%Rec	1	5/25/2023 10:56:37 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/26/2023 12:44:00 AM
Surr: BFB	109	15-244	%Rec	1	5/26/2023 12:44:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	5/26/2023 12:44:00 AM
Toluene	ND	0.048	mg/Kg	1	5/26/2023 12:44:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/26/2023 12:44:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/26/2023 12:44:00 AM
Surr: 4-Bromofluorobenzene	86.2	39.1-146	%Rec	1	5/26/2023 12:44:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	140	60	mg/Kg	20	5/25/2023 2:13:52 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 14

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH-04(28-30ft)

 Project:
 Pipkin
 Collection Date: 5/17/2023 2:15:00 PM

 Lab ID:
 2305B01-004
 Matrix: SOIL
 Received Date: 5/20/2023 9:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/25/2023 11:07:11 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/25/2023 11:07:11 AM
Surr: DNOP	77.6	69-147	%Rec	1	5/25/2023 11:07:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/26/2023 1:05:00 AM
Surr: BFB	95.7	15-244	%Rec	1	5/26/2023 1:05:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	5/26/2023 1:05:00 AM
Toluene	0.14	0.049	mg/Kg	1	5/26/2023 1:05:00 AM
Ethylbenzene	0.059	0.049	mg/Kg	1	5/26/2023 1:05:00 AM
Xylenes, Total	0.30	0.098	mg/Kg	1	5/26/2023 1:05:00 AM
Surr: 4-Bromofluorobenzene	85.4	39.1-146	%Rec	1	5/26/2023 1:05:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	5/25/2023 2:26:16 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 14

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH-04(33-35ft)

 Project:
 Pipkin
 Collection Date: 5/17/2023 2:20:00 PM

 Lab ID:
 2305B01-005
 Matrix: SOIL
 Received Date: 5/20/2023 9:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/25/2023 11:17:48 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/25/2023 11:17:48 AM
Surr: DNOP	85.4	69-147	%Rec	1	5/25/2023 11:17:48 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/26/2023 1:27:00 AM
Surr: BFB	87.3	15-244	%Rec	1	5/26/2023 1:27:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	5/26/2023 1:27:00 AM
Toluene	ND	0.048	mg/Kg	1	5/26/2023 1:27:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/26/2023 1:27:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	5/26/2023 1:27:00 AM
Surr: 4-Bromofluorobenzene	82.5	39.1-146	%Rec	1	5/26/2023 1:27:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	5/25/2023 2:38:41 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 14

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH05 23-25'

 Project:
 Pipkin
 Collection Date: 5/18/2023 11:20:00 AM

 Lab ID:
 2305B01-006
 Matrix: SOIL
 Received Date: 5/20/2023 9:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/26/2023 12:45:30 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/26/2023 12:45:30 PM
Surr: DNOP	101	69-147	%Rec	1	5/26/2023 12:45:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/26/2023 12:07:10 AM
Surr: BFB	65.1	15-244	%Rec	1	5/26/2023 12:07:10 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	5/26/2023 12:07:10 AM
Toluene	ND	0.049	mg/Kg	1	5/26/2023 12:07:10 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/26/2023 12:07:10 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/26/2023 12:07:10 AM
Surr: 4-Bromofluorobenzene	88.0	39.1-146	%Rec	1	5/26/2023 12:07:10 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	5/26/2023 5:29:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 14

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BH05 33-35'

 Project:
 Pipkin
 Collection Date: 5/18/2023 11:40:00 AM

 Lab ID:
 2305B01-007
 Matrix: SOIL
 Received Date: 5/20/2023 9:30:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/26/2023 12:56:10 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/26/2023 12:56:10 PM
Surr: DNOP	89.2	69-147	%Rec	1	5/26/2023 12:56:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/26/2023 1:16:58 AM
Surr: BFB	75.7	15-244	%Rec	1	5/26/2023 1:16:58 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	5/26/2023 1:16:58 AM
Toluene	ND	0.049	mg/Kg	1	5/26/2023 1:16:58 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/26/2023 1:16:58 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/26/2023 1:16:58 AM
Surr: 4-Bromofluorobenzene	91.7	39.1-146	%Rec	1	5/26/2023 1:16:58 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	5/26/2023 5:41:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range Page 7 of 14

Hall Environmental Analysis Laboratory, Inc.

31-May-23

2305B01

WO#:

Client: HILCORP ENERGY

Project: Pipkin

Sample ID: MB-75159 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **75159** RunNo: **96996**

Prep Date: 5/24/2023 Analysis Date: 5/24/2023 SeqNo: 3520080 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-75159 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75159 RunNo: 96996

Prep Date: 5/24/2023 Analysis Date: 5/24/2023 SeqNo: 3520082 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.8 90 110

Sample ID: MB-75213 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75213 RunNo: 97064

Prep Date: 5/26/2023 Analysis Date: 5/26/2023 SeqNo: 3522775 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-75213 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75213 RunNo: 97064

Prep Date: 5/26/2023 Analysis Date: 5/26/2023 SeqNo: 3522776 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.2 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305B01**

31-May-23

Client: HILCORP ENERGY

Project: Pipkin

Sample ID: 2305B01-005AMS	SampT	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH-04(33-35ft)	Batch	Batch ID: 75149			RunNo: 9	7035						
Prep Date: 5/24/2023	Analysis D	ate: 5/ 2	25/2023	S	SeqNo: 3	521086	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	42	9.5	47.53	0	89.1	54.2	135					
Surr: DNOP	4.5		4.753		95.7	69	147					
Sample ID: 2305B01-005AMSI	Sample ID: 2305B01-005AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics											

Campio is. 2000Bot 000Ain	oump.	, po. 1110	,,,	100	L i	Ameniou	00 10 W/D. DI	coci italig	c Organios		
Client ID: BH-04(33-35ft)	Batch	Batch ID: 75149			RunNo: 9						
Prep Date: 5/24/2023	Analysis D	Analysis Date: 5/25/2023			SeqNo: 3	521087	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	39	8.7	43.74	0	88.6	54.2	135	8.83	29.2		
Surr: DNOP	4.1		4.374		94.5	69	147	0	0		

Sample ID: LCS-75149	SampT	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 75149			F	RunNo: 9	7035							
Prep Date: 5/24/2023	Analysis D	Analysis Date: 5/25/2023			SeqNo: 3521099			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	45	10	50.00	0	89.7	61.9	130						
Surr: DNOP	4.7		5.000		94.0	69	147						

Sample ID: MB-75149	SampT	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	n ID: 75	149	F	RunNo: 9	7035							
Prep Date: 5/24/2023	Analysis D	ate: 5/	25/2023	5	SeqNo: 3	521101	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10											
Motor Oil Range Organics (MRO)	ND	50											
Surr: DNOP	13		10.00		126	69	147						

Sample ID: 2305B01-006AMS	SampT	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH05 23-25'	Batch	Batch ID: 75197			RunNo: 9							
Prep Date: 5/25/2023	Analysis D	ate: 5/	27/2023	8	SeqNo: 3	523121	Units: mg/k	ζg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	38	9.7	48.64	0	78.0	54.2	135					
Surr: DNOP	4.6		4.864		95.5	69	147					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305B01**

31-May-23

Client: HILCORP ENERGY

Project: Pipkin

Sample ID: 2305B01-006AMS	D SampTy	/pe: M \$	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: BH05 23-25'	Batch	ID: 75	197	F	tunNo: 9	7073				
Prep Date: 5/25/2023	Analysis Da	ate: 5/	27/2023	SeqNo: 3523122			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.6	48.12	0	87.5	54.2	135	10.4	29.2	
Surr: DNOP	4.3		4.812		89.9	69	147	0	0	
Sample ID: LCS-75186	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rango	e Organics	
Client ID: LCSS	Batch	ID: 75	186	F	tunNo: 9	7073				
Prep Date: 5/25/2023	Analysis Da	ate: 5/	26/2023	5	SeqNo: 3	523198	Units: %Re	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.4	69	147			
Sample ID: LCS-75197	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 75	197	F	tunNo: 9	7073				
Prep Date: 5/25/2023	Analysis Da	ate: 5/	26/2023	S	SeqNo: 3	523201	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.4	61.9	130			
Surr: DNOP	4.5		5.000		89.5	69	147			
Sample ID: MB-75186	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	

Sample ID: MB-75186	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 75186	RunNo: 97073							
Prep Date: 5/25/2023	Analysis Date: 5/26/2023	SeqNo: 3523202	Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual						
Surr: DNOP	9.0 10.00	89.5 69	147						

Sample ID: MB-75197	SampT	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	Batch ID: 75197			RunNo: 97							
Prep Date: 5/25/2023	Analysis D	oate: 5/ 2	26/2023	8	SeqNo: 3	523205	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	11		10.00		112	69	147					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305B01**

31-May-23

Client: HILCORP ENERGY

Project: Pipkin

Sample ID: mb-75132 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **75132** RunNo: **97020**

Prep Date: 5/23/2023 Analysis Date: 5/25/2023 SeqNo: 3521524 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 900 1000 90.2 15 244

Sample ID: Ics-75132 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 75132 RunNo: 97020

Prep Date: 5/23/2023 Analysis Date: 5/25/2023 SeqNo: 3521525 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 5.0 25.00 81.5 70 130

Surr: BFB 1900 1000 190 15 244

Sample ID: Ics-75150 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 75150 RunNo: 97018

Prep Date: 5/24/2023 Analysis Date: 5/25/2023 SeqNo: 3521588 Units: mg/Kg

Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 21 5.0 25.00 85.6 70 130 Surr: BFB S 4700 1000 472 15 244

Sample ID: mb-75150 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 75150 RunNo: 97018

Prep Date: 5/24/2023 Analysis Date: 5/25/2023 SeqNo: 3521589 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Gasoline Range Organics (GRO) ND 5.0
Surr: BFB 640

Surr: BFB 640 1000 64.4 15 244

Client ID: BH05 23-25' Batch ID: 75150 RunNo: 97018

SampType: MS

Prep Date: 5/24/2023 Analysis Date: 5/26/2023 SeqNo: 3521599 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 21 4.9 0 70 24.41 86.1 130 Surr: BFB 4600 976.6 475 15 244 S

Sample ID: 2305B01-006AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH05 23-25'** Batch ID: **75150** RunNo: **97018**

Prep Date: 5/24/2023 Analysis Date: 5/26/2023 SeqNo: 3521600 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Sample ID: 2305B01-006AMS

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

TestCode: EPA Method 8015D: Gasoline Range

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305B01** *31-May-23*

Client: HILCORP ENERGY

Project: Pipkin

Sample ID: 2305B01-006AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH05 23-25' Batch ID: 75150 RunNo: 97018

Prep Date: 5/24/2023 Analysis Date: 5/26/2023 SeqNo: 3521600 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.27	0	83.6	70	130	3.60	20	
Surr: BFB	4500		970.9		468	15	244	0	0	S

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305B01

31-May-23

Client: HILCORP ENERGY

Project: Pipkin

Sample ID: mb-75132 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 75132 RunNo: 97020 Analysis Date: 5/25/2023 SeqNo: 3521548 Prep Date: 5/23/2023 Units: mq/Kq SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND

Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.86 1.000 86.2 39.1 146

Sample ID: Ics-75132 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 75132 RunNo: 97020 Analysis Date: 5/25/2023 SeqNo: 3521549 Prep Date: 5/23/2023 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 70 0.87 0.025 n 86.9 130 Benzene Toluene 0.87 0.050 1.000 0 87.1 70 130 0 85.6 70 0.86 0.050 1.000 130 Ethylbenzene 0 85.1 Xylenes, Total 2.6 0.10 3.000 70 130 Surr: 4-Bromofluorobenzene 0.87 1.000 86.8 39.1 146

Sample ID: LCS-75150 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 75150 RunNo: 97018 Prep Date: 5/24/2023 Analysis Date: 5/25/2023 SeqNo: 3521629 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 80.6 70 0.81 1.000 130 Benzene O 0.83 0.050 1.000 0 83.4 70 130 Toluene 0.050 0 84.7 70 Ethylbenzene 0.85 1.000 130 Xylenes, Total 2.5 0.10 3.000 0 84.6 70 130

TestCode: EPA Method 8021B: Volatiles Sample ID: mb-75150 SampType: MBLK Client ID: PBS Batch ID: 75150 RunNo: 97018 Prep Date: 5/24/2023 Analysis Date: 5/25/2023 SeqNo: 3521630 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result PQL HighLimit %RPD Qual ND 0.025 Benzene

Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.88

0.93

1.000 88.0 39.1 146

1.000

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank

92.6

39.1

146

- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limi

Page 13 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305B01**

31-May-23

Client: HILCORP ENERGY

Project: Pipkin

Sample ID: 2305B01-007AMS SampType: MS TestCode: EPA Method 8021B: Volatiles BH05 33-35' Client ID: RunNo: 97018 Batch ID: 75150 Prep Date: 5/24/2023 Analysis Date: 5/26/2023 SeqNo: 3521633 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene 0.81 0.025 0.9862 0 82.1 70 130 Toluene 0.85 0.049 0.9862 0.01591 84.6 70 130 88.0 70 Ethylbenzene 0.87 0.049 0.9862 0 130 Xylenes, Total 2.6 0.099 2.959 0 87.3 70 130 0.9862 93.4 Surr: 4-Bromofluorobenzene 0.92 39.1 146

Sample ID: 2305B01-007AN	TestCode: EPA Method 8021B: Volatiles										
Client ID: BH05 33-35'	Batch	Batch ID: 75150			RunNo: 9						
Prep Date: 5/24/2023	Analysis D	Analysis Date: 5/26/2023			SeqNo: 3	521634	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.76	0.025	0.9872	0	76.9	70	130	6.36	20		
Toluene	0.79	0.049	0.9872	0.01591	78.6	70	130	7.08	20		
Ethylbenzene	0.80	0.049	0.9872	0	81.4	70	130	7.61	20		
Xylenes, Total	2.4	0.099	2.962	0	82.4	70	130	5.68	20		
Surr: 4-Bromofluorobenzene	0.90		0.9872		91.0	39.1	146	0	0		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 14



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 11/28/2023 10:45:13 AM

Client Name:	Hilcorp Ene	rgy	Work	Order Numbe	er: 230	B01			RcptNo	o: 1
Received By:	Tracy Cas	arrubias	5/20/20	23 9:30:00 Ai	M					
Completed By:	Tracy Cas	arrubias	5/20/20	23 1:15:05 Pi	vi					
Reviewed By:	m 5/2	2/23								
Chain of Cust	od <u>y</u>								_	
1. Is Chain of Cus	stody comp	ete?			Yes	✓	No		Not Present	
2. How was the s	ample deliv	ered?			Cou	<u>ier</u>				
<u>Log In</u> 3. Was an attemp	t made to c	ool the sampl	es?		Yes	V	No		na 🗆	
4. Were all sample	es received	at a temperat	ure of >0° C	to 6.0°C	Yes	Y	No	Ш	na 🗆	
5. Sample(s) in pr	oper contai	ner(s)?			Yes	V	No			
ე. Sufficient samp	le volume f	or indicated te	st(s)?		Yes	✓	No [
7. Are samples (e:	xcept VOA	and ONG) pro	perly preserve	ed?	Yes	V	No [
8. Was preservati	ve added to	bottles?			Yes		No [Y	NA 🗌	
9. Received at lea	st 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No (NA 🗹	
0. Were any sam	ole containe	ers received bi	oken?		Yes		No	V	# of preserved	/
1. Does paperwork (Note discrepan					Yes	V	No [or >12 unless note
2. Are matrices co	rrectly iden	tified on Chair	of Custody?		Yes	V	No [Adjusted?	
3, Is it clear what			?		Yes	V	No [
4. Were all holding (If no, notify cus	-				Yes	V	No		Checked by:	5/22/23
pecial Handlii	ng (if app	licable)							010	sice of
15. Was client noti			vith this order?	?	Yes		No		NA 🗹	
Person N	lotified:			Date:				otomory		
By Whon	n:			Via:	□ еМ	ail 📋	Phone	Fax	☐ In Person	
Regardin	g:			***************************************						
Client Ins	structions:	Email is misir	ng on COC -Ti	MC 5/20/23						
16. Additional rem	arks:									
17. <u>Cooler Inform</u>	nation									
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed B	Ву		
1	2.3	Good	Yes	Yogi						

Turn-Around Time:	HALL ENVIRONMENTAL
Standard □ Rush	ANALYSIS LABORATORY
Project Name: Pip Kin	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109
Project #:	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request
Project Manager:	(S)
Stuart Hyde	0 / MF 0 / MF 0 SIMS 0 SIMS
Sampler: On Ice: Yes I No yes:	MTBE / TMB's (5D(GRO / DRO) sticides/8082 PC ethod 504.1) / 8310 or 8270S Metals if, NO3, NO2, P OA) emi-VOA)
Container Preservative HEAL No.	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F. Br, NO3, NO2, PO4, SO4 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)
Type and # Type 23080	
91055/1 Nane 001	
002	
003	
004	
4) \$ 005	4 4
	XX
	XX
Received by: Via: Date Time January Janua	Remarks: this possibility. Any sub-contracted data will be clearly notated on the analytical report.
1	Standard Rush Project Name: Project Manager: Sampler: On Ice: # of Coolers: Cooler Temp(including cp): 2.4-0.1-2.3 (°C) Container Type and # Type Oo 1 Oo 2 Oo 3 Received by: Via: Received by: Via: Counier Date Time 9:30 Stacks



APPENDIX C

Agency Sampling Notifications

From: Burdine, Jaclyn, EMNRD

To: Stuart Hyde

Cc: <u>Kate Kaufman; Devin Hencmann; Danny Burns</u>

Subject: RE: [EXTERNAL] Pipkin Gas Com A1E - Drilling and Sampling Notification

Date: Thursday, April 6, 2023 9:47:33 AM

Attachments: imaqe001.pnq imaqe002.pnq

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Thank you for the notice, it has been received and noted.

Jackie Burdine● Environmental Specialist-Advanced – Administrative Permitting Program EMNRD - Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
505.469.6769_Jaclyn.Burdine1@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Stuart Hyde <shyde@ensolum.com>

Sent: Monday, April 3, 2023 5:05 PM

To: Burdine, Jaclyn, EMNRD < Jaclyn.Burdine1@emnrd.nm.gov>

Cc: Kate Kaufman <kkaufman@hilcorp.com>; Devin Hencmann <dhencmann@ensolum.com>;

Danny Burns <dburns@ensolum.com>

Subject: [EXTERNAL] Pipkin Gas Com A1E - Drilling and Sampling Notification

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

On behalf of Hilcorp Energy Company, Ensolum is submitting this delineation sampling notification for the Pipkin Gas Com A1E site located in San Juan County, NM (coordinates 36.593965, -107.940397). Drilling and sampling work will begin at 10 AM on Thursday April 13, 2023 to assess potential impacts related to the removal of an onsite below-grade tank. Please reach out with any questions or comments at this time. Thank you.



Stuart Hyde, LG Senior Geologist 970-903-1607 Ensolum, LLC Attachments:

Wells, Shelly, EMNRD From:

To: Stuart Hyde

Cc: Kate Kaufman; Devin Hencmann

RE: [EXTERNAL] Pipkin Gas Com A1E - Drilling and Sampling Notification Subject:

Date: Tuesday, May 16, 2023 9:40:57 AM image001.png

> image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Good morning Stuart,

Thank you for letting me know!

Shelly

From: Stuart Hyde <shyde@ensolum.com> **Sent:** Tuesday, May 16, 2023 9:38 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Cc: Kate Kaufman < kkaufman@hilcorp.com>; Devin Hencmann < dhencmann@ensolum.com>

Subject: RE: [EXTERNAL] Pipkin Gas Com A1E - Drilling and Sampling Notification

Shelly,

Due to delays in other drilling projects, we have had to push back the Pipkin drilling and sampling work to Thursday and Friday May 18th and 19th. Please reach out with any questions. Thanks.



Stuart Hyde, LG Senior Geologist 970-903-1607 Ensolum, LLC in f 🔰

From: Stuart Hyde

Sent: Tuesday, May 9, 2023 3:45 PM

To: Burdine, Jaclyn, EMNRD < <u>Jaclyn.Burdine1@emnrd.nm.gov</u>>

Cc: Kate Kaufman < kkaufman@hilcorp.com >; Devin Hencmann < dhencmann@ensolum.com >;

Danny Burns < dburns@ensolum.com; Eric Carroll < ecarroll@ensolum.com>

Subject: RE: [EXTERNAL] Pipkin Gas Com A1E - Drilling and Sampling Notification

All,

On behalf of Hilcorp Energy Company, Ensolum is submitting this additional delineation sampling notification for the Pipkin Gas Com A1E site located in San Juan County, NM (coordinates 36.593965, -107.940397). Drilling and sampling work will begin at 9 AM on May 15 and 16, 2023 to assess potential impacts related to the removal of an onsite below-grade tank. Please reach out with any questions or comments at this time. Thank you.



From: Burdine, Jaclyn, EMNRD < <u>Jaclyn.Burdine1@emnrd.nm.gov</u>>

Sent: Thursday, April 6, 2023 9:47 AM **To:** Stuart Hyde <shyde@ensolum.com>

Cc: Kate Kaufman@hilcorp.com>; Devin Hencmann < dhencmann@ensolum.com>;

Danny Burns < dburns@ensolum.com>

Subject: RE: [EXTERNAL] Pipkin Gas Com A1E - Drilling and Sampling Notification

[**EXTERNAL EMAIL**]

Thank you for the notice, it has been received and noted.

Jackie Burdine● Environmental Specialist-Advanced – Administrative Permitting Program EMNRD - Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
505.469.6769_Jaclyn.Burdine1@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Stuart Hyde <<u>shyde@ensolum.com</u>> Sent: Monday, April 3, 2023 5:05 PM

To: Burdine, Jaclyn, EMNRD < <u>Jaclyn.Burdine1@emnrd.nm.gov</u>>

Cc: Kate Kaufman < <u>kkaufman@hilcorp.com</u>>; Devin Hencmann < <u>dhencmann@ensolum.com</u>>;

Danny Burns < dburns@ensolum.com>

Subject: [EXTERNAL] Pipkin Gas Com A1E - Drilling and Sampling Notification

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On behalf of Hilcorp Energy Company, Ensolum is submitting this delineation sampling notification for the Pipkin Gas Com A1E site located in San Juan County, NM (coordinates 36.593965, -107.940397). Drilling and sampling work will begin at 10 AM on Thursday April 13, 2023 to assess potential impacts related to the removal of an onsite below-grade tank. Please reach out with any questions or comments at this time. Thank you.



Stuart Hyde, LG Senior Geologist 970-903-1607 Ensolum, LLC in f



APPENDIX D

Photographic Log



Photographic Log

Hilcorp Energy Company
Pipkin Gas Com A #1E
San Juan County, New Mexico





Photograph: 1 Date: 4/14/2023 Description: View of Site and former BGT location

View: West

Photograph: 2 Date: 4/15/2023 Description: View of pothole advanced on 10/28/2022

View: South





Photograph: 3 Date: 4/14/2023

Description: Drilling boring BH01

View: West

Photograph: 4 Date: 4/15/2023

Description: Drilling boring BH03

View: Southwest



APPENDIX E

Boring Logs

	Date Samp Drilled By Driller: 3 Logged By	pled: 4-1 : Enviso	4-23 - Dri 11	LU	М	Project Na Project Lo Project M Ground S		BORING LOG NUMBER BHO Project No.: 07A1988057 Borehole Diameter: B' Casing Diameter: Well Materials: Surface Completion: Boring Method: HSA	
	DEPTH (FEET)	SAMPLE	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING/WELL COMPLETION
50-5"	2 4		25%	2.4		5W	(5	nlodor slo)	
50-4"	8 1		25%	0.8		SW	Lt. Brown, med-med for Dry, No s/o	. Sand	
50-4"	12 14 16		257.	٥.2		sw	Same As Above. Dry No S/O		
50-4"	18 20		25%	2.1		sw	SAA, Dry, No Sto		
43 50 -2"	22 24 26	TIME 1050	50%	38.1		sw	SAA, Dry, No stain, V tlC odor, degraded. Lt. Brown/tan med-me	ery slight	
42 50-2"	28	1100	75%	44.2		SW -SM	cand W/ IK. SILT Dry.	No stain Jor	
28 50-2"	32 34 36	(110	100 %.	0.8		5M	Lt. bluish gray, fn-sa Dry, dense, compact. N	os/o.	
	38 40						No well set, borehole let		
	42						open. Buck placed over	et	
	46 48 50								

Y I	Drilled By Driller:	oled: H-11 : Envir	1-23 Worll	LU	М	Project Nam Project Loca Project Man Ground Sur		BORING LOG NUMBER BHO2 Project No.: 07A1988057 Borehole Diameter: 811 Casing Diameter: Well Materials: Surface Completion: Boring Method: HSA	
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO	N .	BORING/WELL COMPLETION
50-5"	0]		25%.	2,3		1 1	H. Brown/tan med- Dry, 100%, No S/C		
50-4"	8		25.1.	0.0			H. Brown med-med sand. Dry, No s/o		
50-5"	12 14 16	- -	25%.	0.0		sw	Tour, ut. Brown, med. Dry. No slo.	sand.	
50-5"	18 .		10%.	0.0		sw	SAA, NO 3/0.		
50-6"	22 24 26		25.1.	0.0		sw	SAA. No slo.		
28/50-5"	28	12:40	50%	8.7		sw	siy, souse, io	10	
32/50-5	32 34 36	12:60	75%.	0.1		5M	Gray, Lt. Blue-gray, silt + bense silts Dry. No S/o	fn.sardy Hone.	
	40						No well s	et.	
	44 46 48 50	+							

	Driller: T	led: 4-1	150 150 150 150 150 150 150		М	Project Nat Project Loc Project Ma Ground Su	ing Elevation: rdinate: dinate:	BH	ameter: crials: ompletion:	
	рертн (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	·	BORING/WELL COMPLETION	
50 -5 ''	0 2 4 6 8		257,	0.0		sw				
50-5 ¹¹	10		25%	0.0		5W	Tan med-fn. sand Dry No 9/0. Lt. Brown/tan med Dry No 5/0.	l. sond		
50-5"	14 16 18	-	25%.	0.0		SW	SAA, Dry, No 5/0.			
30/50-3"	22 24 26	14:00	50%	7.8		5W	Brown, med-coarse Dry, No S/o. Lt. gray, med-coarse w) silt. No S/o.	_sand		
19/38/50-3"	28 30 32	14:20	100%	2.1		SW -SM	w) silt No so.	Dry.		
22/50-4"	34 36 38	1430	100 7.	0.1		5M	Gray, It blue, for. Say Dunse, Dry, NO 5)	0		
	40 42 44						No well set	ī.		
	46 48 50									

Drilled By Driller:	pled: 5. :: Envir	150 -17-23 -0- Dril	1	М	Project Loc Project Ma Ground Su		Project No.: Borehole Diameter Casing Diameter	eter: 8" er: 2" :SCH 40 PVC etion: SVE
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	ON	BORING/WELL COMPLETION
0]		50%	1,3 PPM		SW	SILTY SAND W/C light brown, Fine w/ grane, Moderate Sorted, Unconsolio Dry, No Odor, Fill?	GRAVEL - Coarse, 2 - Poorly Mkd,	TBD
6 _ 7 _ 8 _ 9 _ 10	X	60%	1.6 PPM		5W	AS Above Fill?	- gray	
11 _ 12 _ 13 _ 14 _ 15		700%	2.7 pp/		SP	M-C, Moderate-v Consolidated but Comented, Dry, n * Slow Drilling +	Vellsorld Weakly o Odor	
16 17 18 19 20 21		70%	7.2 Sin	eventure and the collections.	5P	SANDSTONE- F-M, Well South Frighte + Weakly Dry, No odor	gray gray di Cemented	
22 23 24 25		60%	559.2 ppn			AS Above, M-C Slight Petro od	,	

Date Sam Drilled By Driller:	oled: 5. : Envi	13-23 10-Dri Jeicher	()	М	Project Loc Project Ma Ground Su	ne: Pitkin ation: MM nager: Stuart Hyde rface Elevation: ing Elevation: dinate:	Project No.: Borehole Diam Casing Diamet Well Materials Surface Compl Boring Method	eter: er: : etion:
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
25] 26		70°F				SANDSTONE-GI black, F-M, Sorded, Consolid Weakly counted Organic rich will Woody Materia O SOT STALE-gray-blant 1:44 silt, Consol Dry No odor		TBD

Date Sam Drilled by Driller: Logged by Sampler:	/:		23 2- Dr		M	Project Project Project Project Ground Top of t North C West C Bench I	t: HEC Name: Pipkin Location: NM Manager: 5. Hyd Surface Elevation: Casing Elevation: Coordinate: coordinate: Oordinate: Mark Elevation: Completien Well Stabilization	Borehole I Casing Di Well Mate Surface Co	BORING LOG NUMBER BHOS roject No. Diameter: 8" ameter: 4A crials: WA completion: WA ethod: HSA
D EPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
20	10-5 25-10 30-15 4-50 5-30-25		100 100	0.2		5P 5P 5P	BHOS West of BHOI It. brown, Dry, Coarse sond No Stain/odor It brown, dry, coarse, Sand, weathered Sand Stone No Stain/odor It. gray brown, coarse, Sano NO Stain/odor SAA NO Stain/odor SAA NO Stain/odor	l cemen be	NO Well installed

STED

		N S		7		Project 1 Project 1	Name:	BORING LOG NUMBER Project No		
Date Samp Drilled by: Driller: Logged by Sampler:	=				_	Top of C North Co West Co Bench N	Surface Elevation:	Casing Dia Well Mate Surface Co	Diameter:	
D EPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)	
26 — — — — — — — — — — — — — — — — — — —	30			0.0			It brown, dry, med-courses			
25 —										

District I
1625 N. French Dr., Hobbs, NM 88240
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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 255416

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	255416
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition Date
Ву		
nvelez	Remediation plan is approved with the following conditions; 1. Soil Vapor Extraction Pilot Test to be completed by 02/26/2024. 2. Report of Pilot Test to be completed and submitted to OCD by 03/26/2024.	11/28/2023