



June 14, 2024

New Mexico Oil Conservation Division

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

Re: Remediation Work Plan

San Juan 29-6 Unit 86
Rio Arriba County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2401932449

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Work Plan* (Work Plan) for a release at the San Juan 29-6 Unit 86 natural gas production well (Site). The Site is located on private land in Unit N, Section 27, Township 29 North, Range 6 West, Rio Arriba County, New Mexico (Figure 1). This proposed Work Plan includes a summary of delineation activities performed at the Site and the proposed remediation of impacted soil originating from the release of condensate and produced water.

SITE BACKGROUND

On January 18, 2024, during Audio, Visual, and Olfactory (AVO) inspections, a Hilcorp operator noticed melted snow and identified a split dump line, likely cracked from freeze thaw cycles. The operator immediately bull plugged the tank and shut off the dump, stopping the release. Based on tank gauging data, it is estimated that 17 barrels (bbls) of produced water and 16 bbls of condensate were released. Fluids stayed within the secondary containment, and no fluids were able to be recovered, upon discovery of the release.

Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) within 24 hours of discovery via email and submission of a Notification of Release (NOR) both on January 19, 2024. In addition, an initial Form C-141 was submitted on January 29, 2024. NMOCD assigned the release incident number nAPP2401932449.

SITE CHARACTERIZATION

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). This information is further discussed below.

GEOLOGY AND HYDROGEOLOGY

The Site is located in Tertiary (Eocene) age San Jose Formation and is underlain by the Nacimiento Geologic Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the San Jose Formation is composed of interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about 2,700 feet. The hydrogeologic properties of the San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

POTENTIAL SENSITIVE RECEPTORS

Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, National Wetland Inventory (NWI), National Hydrography Dataset (NHD) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and Site-specific observations.

The nearest significant watercourse to the Site is an intermittent stream approximately 215 feet northeast of the wellhead and is identified by a dashed blue line on a USGS 7.5-minute quadrangle map. The Site is also less than 300 feet from the nearest wetland (Figure 1). The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake. The nearest fresh water well is USGS well 364049107271901, located 4,250 feet south of the Site with a depth to water of approximately 300 feet below ground surface (bgs). The next closest well with depth to water information is NMOSE permitted well SJ-00059-S-3 (Point of Diversion Summary included as Appendix A), located approximately 7,950 feet east of the Site. The recorded depth to water on the NMOSE database is 146 feet bgs. Based on this information, depth to groundwater at the Site is estimated to be greater than 100 feet bgs. No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile radius 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 Bureau of Land Management (BLM)). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

SITE CLOSURE CRITERIA

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 for constituents of concern (COCs) should be applied to the Site:

- Chloride: 600 milligrams per kilogram (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
- A combination of benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Benzene: 10 mg/kg

DELINEATION AND SOIL SAMPLING ACTIVITIES

Ensolum personnel conducted initial delineation potholing activities with a hand auger on January 30, 2024. Sampling location HA01 was advanced within the center of the secondary containment berm to a depth of 1.5 feet bgs. Sampling locations HA02 through HA06 were advanced to a depth of 0.5 feet bgs in all cardinal directions surrounding the berm as depicted in

Figure 2. Hand auger refusal was encountered between 0.5 feet and 1-foot bgs at all locations. During delineation activities, Ensolum field screened for the presence of volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). Soil composition consisted of medium to coarse sand interbedded with clay and fine sand.

One soil sample was collected from each hand auger location in order to laterally delineate shallow impacts at the Site. A sample was not submitted from hand auger borehole, HA02, because field screening results were similar to those of HA01 and it was assumed that this borehole contained similar concentrations from ground surface to 0.5-feet bgs. Samples were submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for analysis of TPH following United States Environmental Protection Agency (EPA) Method 8015M/D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0. Analytical results indicated concentrations of TPH in soil exceeded the applicable NMOCD Closure Criteria at depths of 1-foot to 1.5 feet bgs in sampling location HA01.

Based on the initial laboratory analytical results, Ensolum and Hilcorp returned to the Site on February 5, 2024, with a backhoe in an attempt to vertically delineate impacts. One pothole (PH01) was advanced to a depth of 17 feet bgs, which was the maximum reach of the backhoe. Two samples were collected from PH01 utilizing methods described above and submitted to Eurofins for analysis of BTEX, TPH, and chloride. Analytical results from both samples collected at PH01 exceeded the NMOCD Closure Criteria for TPH. Because vertical impacts were not delineated, Ensolum and Hilcorp returned to the Site on February 22, 2024, with a larger excavator to attempt to delineate vertically; however, refusal with the excavator was encountered at a depth of 19 feet bgs. One sample was collected from the terminus of PH02 and submitted to Eurofins for analysis of BTEX, TPH, and chloride. Laboratory analytical results from this sample also exceeded the NMOCD Closure Criteria for TPH.

Based on the initial pothole sampling results, Ensolum and Hilcorp returned to the Site from April 8 to April 10, 2024, to conduct additional delineation efforts with a hollow stem auger rig with split-spoon sampling capabilities. Additionally, based on the soil composition and TPH concentrations previously detected, soil vapor extraction (SVE) well installation was proposed contemporaneous to drilling. Six boreholes (BH01 through BH06) were advanced to depths varying between 24 feet to 35 feet bgs. During delineation drilling activities, Ensolum personnel logged lithology and field screened soil in the same manner described above. Borehole logs with soil descriptions are included in Appendix B. Several soil samples were collected from each borehole and placed directly into laboratory-provided jars and immediately placed on ice. Samples were submitted to Eurofins for analysis of BTEX, TPH, and chloride by the same methods described above.

Based on field screening results, SVE wells were installed in boreholes BH01, BH03, BH04, BH05, and BH06. Screen intervals were strategically picked based on field screening results and visual impacts. Photographs taken during delineation activities are also provided in Appendix C. Soil samples locations are presented on Figure 2. Sampling notifications provided to the NMOCD are included as Appendix D.

TPH was only detected above the NMOCD Closure Criteria at BH01 at a depth of 10 feet bgs. BTEX, TPH, and chloride were either not detected above laboratory reporting limits or was detected at concentrations below the applicable Closure Criteria in the remaining analyzed samples. Analytical results are summarized in Table 1 and presented on Figure 2. Complete laboratory reports are attached as Appendix E.

CONCLUSIONS AND REMEDIATION WORK PLAN

Based on soil sampling results described above, it is estimated that impacted soil is present at the Site between the ground surface to a depth of approximately 10 feet bgs. Of note, analytical results from potholes PH01 and PH02 indicate TPH impacted soil is present to depth up to 19 feet bgs; however, based on the extensive sampling performed during the drilling effort, sample results indicate that impacted soil is only present to depths of approximately 10 feet bgs. It is believed that during the advancement of the potholes, impacted soil from the top 10 feet sloughed into the pothole as it was advanced and this impacted soil was incidentally included in the samples collected at depth. Analytical results also indicate TPH impacted soil is likely limited to areas within the immediate vicinity of the secondary containment berm with an approximate areal extent of 1,600 square feet.

Due to the limited vertical and lateral extent of soil impacts, the SVE system will not undergo pilot testing, and the SVE wells will be abandoned. To meet NMOCD Closure Criteria, Hilcorp plans to excavate TPH-impacted soil to the approximate extent shown on Figure 2. Impacted soil will be excavated and transported off-Site for treatment at a Hilcorp registered small landfarm (to be approved by the BLM and NMOCD Permitting Group). Based on delineation results, approximately 600 cubic yards of impacted soil is present at the Site requiring excavation and treatment/disposal.

Once field screening indicates impacted soil has been removed, 5-point composite soil samples will be collected at least every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Based on previous analytical results and no prior Closure Criteria exceedances of chloride, Hilcorp is requesting soil samples only be analyzed for TPH and BTEX during confirmation sampling. Once confirmed impacted soil has been removed, the excavation will be backfilled with clean soil and recontoured to match pre-existing conditions at the Site.

Hilcorp will complete the excavation and soil sampling activities within 90 days of the date of approval of this Work Plan by the NMOCD and approval from the BLM and NMOCD Permitting group for the construction of the small landfarm. A *Closure Request* will be submitted within 60 days of receipt of final laboratory analytical results.

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 work plan to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned

Sincerely,
Ensolum, LLC



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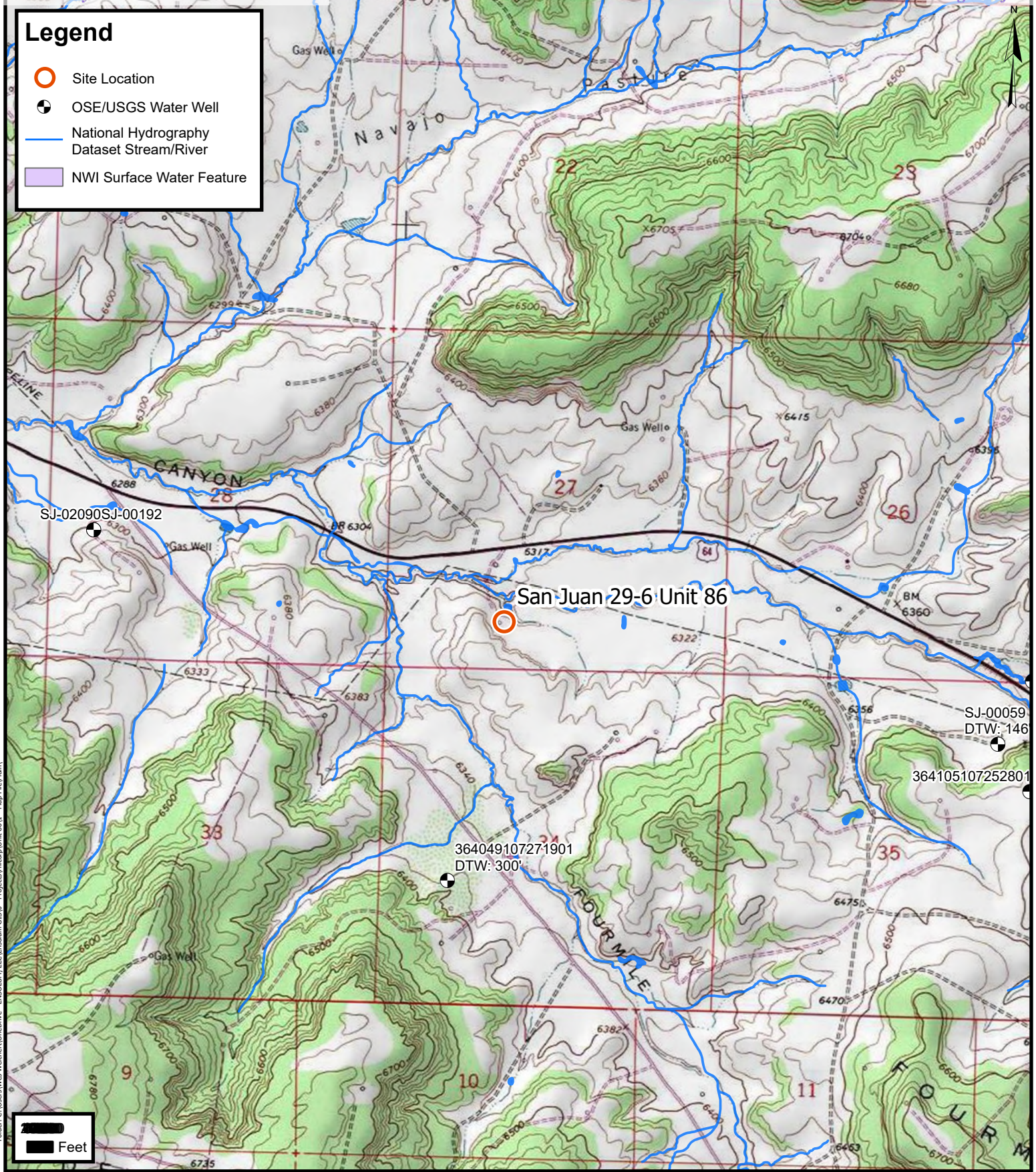


Attachments:

Figure 1:	Site Receptor Map
Figure 2:	Delineation Soil Sample Locations and Proposed Excavation Extent
Table 1:	Delineation Soil Sample Analytical Results
Appendix A:	NMOSE Point of Diversion Summary
Appendix B:	Borehole Logs
Appendix C:	Photographic Log
Appendix D:	Sampling Notifications
Appendix E:	Laboratory Analytical Reports



FIGURES



ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Receptor Map
Hilcorp Energy Company
San Juan 29-6 Unit 86
Incident Number: nAPP2401932449
Unit N, Sec 27, T29N, R6W
Rio Arriba, New Mexico, United States

FIGURE
1



Delineation Soil Sample Locations and Proposed Excavation Extent

Hilcorp Energy Company
San Juan 29-6 Unit 86
Incident Number: nAPP2401932449
Unit N, Sec 27, T29N, R6W
Rio Arriba, New Mexico, United States

**FIGURE
2**



TABLES



TABLE 1 DELINEATION SOIL SAMPLE ANALYTICAL RESULTS San Juan 29-6 Unit 86 Hilcorp Energy Company Rio Arriba County, New Mexico												
Sample ID	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (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)
NMOCDC Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
HA01@1-1.5'	1/30/2024	1-1.5	<0.47	6.7	4.3	81	92.0	1,300	1,100	<460	2,400	<60
HA03@0-0.5'	1/30/2024	0-0.5	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<46	<46	<59
HA04@0-0.5'	1/30/2024	0-0.5	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.2	<46	<46	<60
HA05@0-0.5'	1/30/2024	0-0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<46	<46	<59
HA06@0-0.5'	1/30/2024	0-0.5	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.2	<46	<46	<60
PH01@7'	2/5/2024	7	0.64	34	12	220	266.64	2,800	2,100	<490	4,900	<60
PH01@17'	2/5/2024	17	<0.025	<0.049	0.11	1.4	1.51	49	83	<48	132	<60
PH02@19'	2/22/2024	19	<0.024	0.15	0.24	4.7	5.09	97	160	<42	257	<60
BH01@10	4/8/2024	10	<0.040	<1.0	1.4	22	23.4	590	990	<49	1,580	<5.0
BH01@15	4/8/2024	15	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.1	<46	<46	<5.0
BH01@20	4/8/2024	20	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	11	<47	11	<5.0
BH01@25	4/8/2024	25	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	7.4
BH01@30	4/8/2024	30	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	5.1
BH02@15	4/8/2024	15	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.2	<46	<46	11
BH02@30	4/8/2024	30	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<48	<48	<5.0
BH03@15	4/9/2024	15	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.2	<46	<46	<5.0
BH03@24	4/9/2024	24	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.8	<44	<44	18
BH04@10	4/9/2024	10	<0.024	<0.049	0.051	<0.097	0.051	20	33	<48	53	17
BH04@15	4/9/2024	15	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.6	<43	<43	5.6
BH04@20	4/9/2024	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<46	<46	5.1
BH04@25	4/9/2024	25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<46	<46	13
BH05@10	4/9/2024	10	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.2	<46	<46	<5.0
BH05@15	4/9/2024	15	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.8	<44	<44	<5.0
BH05@20	4/9/2024	20	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.0	<45	<45	<5.0
BH05@30	4/9/2024	30	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<8.7	<43	<43	<5.0
BH06@5	4/10/2024	5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.8	<44	<44	<5.1
BH06@15	4/10/2024	15	<0.025	<0.049	<0.049	<0.099	<0.099	11	18	<49	29	<5.1
BH06@30	4/10/2024	30	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<48	<48	9.4

Notes:

bgs: below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: milligrams per kilogram

NE: Not Established

NMOCDC: 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 1 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	X	Y
SJ	00059 S-3	3	2	2	35	29N	06W	283171	4062865*

Driller License: 713 **Driller Company:** MANESS, INC.
Driller Name: JAMES MANESS

Drill Start Date: 04/09/1980 **Drill Finish Date:** 05/13/1980 **Plug Date:**
Log File Date: 07/13/1982 **PCW Rcv Date:** 06/27/1984 **Source:** Shallow
Pump Type: SUBMER **Pipe Discharge Size:** 2 **Estimated Yield:** 37 GPM
Casing Size: 13.38 **Depth Well:** 561 feet **Depth Water:** 146 feet

Water Bearing Stratifications:	Top	Bottom	Description
	95	100	Shallow Alluvium/Basin Fill
	115	150	Shallow Alluvium/Basin Fill
	495	561	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	115	150
	490	558

*UTM location was derived from PLSS - see Help

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

2/8/24 9:33 AM

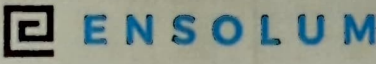
POINT OF DIVERSION SUMMARY

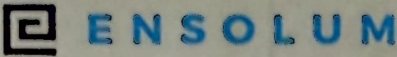
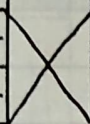
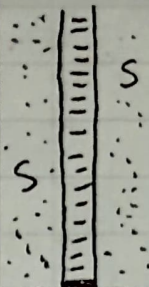
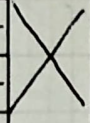
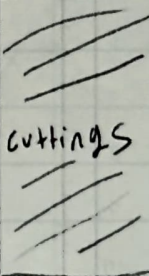
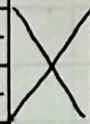


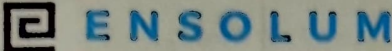
APPENDIX B

Borehole Logs

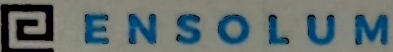
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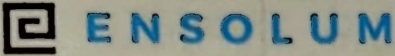
					Client: Hilcorp Project Name: San Juan 29-6 U 86 Project Location: 11 Project Manager: S. Hyde		BORING LOG NUMBER BH 02 Project No.:	
Date Sampled: 4-8-24 Drilled By: Envirodrill Driller: Ryan Logged By: AT					Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Borehole Diameter: 4" Casing Diameter: 2" Well Materials: PVC Surface Completion: Flush Boring Method: Hollow Stem	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
0								
1								
2								
3								
4								
5								
6	X	50/5	30%	>5000	SW	loose Tan, well graded sand, moist, massive, strong odor, no stain		
7	X							
8								
9								
10								
11	X	50/5	60%	SAA2 75k	SW	SAA, sharp contact @ 11'		
12	X				CL	grayish brown, lean clay, dry massive, med-plasticity, slight odor		
13								
14								
15								
16	X	22 50/6	50%	1755	CL	SAA, ^{AT} Gray, slight odor		
17	X							
18								
19								
20								
21	X	50/1	20%	258	CL	stiff, gray, lean clay, dry, massive cohesive siltstone?		
22	X							
23								
24								
25								

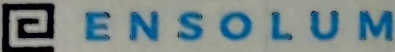
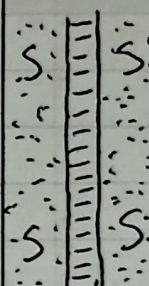
						Client: <i>Hilcorp</i> Project Name: <i>SS 29-6 Unit 86</i> Project Location: <i>"</i> Project Manager: <i>S. Hyde</i>		BORING LOG NUMBER <i>B1401</i>	
						Date Sampled: <i>4-8-24</i> Drilled By: <i>EnviroDrill</i> Driller: <i>RYN</i> Logged By: <i>Al Thomson</i>		Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION		
25		<i>50/2</i>	<i>20%</i>	<i>70</i>	<i>SW</i>	<i>tan, well graded sand, dense, moist, no odor</i>			
26									
27									
28		<i>50/1</i>	<i>20%</i>	<i>140</i>	<i>SW</i>	<i>SAA</i>			
29									
30									
31		<i>50/6</i>	<i>20%</i>	<i>33</i>	<i>SC</i>	<i>loose, well graded sand w/ clay moist, no odor</i>			
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

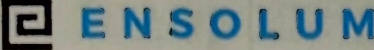
		Client: HILCORP		BORING LOG NUMBER	
		Project Name: SJ 29-6 U86		B1402	
Date Sampled: 4-8-24		Ground Surface Elevation:		Borehole Diameter: 4"	
Drilled By: Enkiredrill		Top of Casing Elevation:		Casing Diameter: 2"	
Driller: Ryan		North Coordinate:		Well Materials: PVC	
Logged By: AT		West Coordinate:		Surface Completion: Flush	
Boring Method: HSA		Project No:			

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/FID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
1							
2							
3							
4							
5							
6	X	50/6	25%	4.0	SW	loose, tan, well graded sand, moist, massive, no odor no stain	
7							
8							
9							
10							
11	X	19	30%	9	CL	grayish brown, lean clay, dry, massive, med-plasticity	
12		50/4				stiff No HC odor, No stain med-stiff	
13							
14							
15							
16	X	9, 19, 36	65%	41	CL	SAA, gray, moist, stiff	
17							
18							
19							
20							
21	X	50/1	10%	37	CL	AT stiff very stiff, SAA	
22						cohesive	
23							
24							
25							

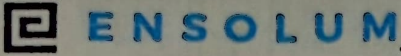
						Client: Hicorp Project Name: SJ 29-6 v 86 Project Location: " Project Manager: S. Hyde		BORING LOG NUMBER BH02	
Date Sampled: 4-8-24 Drilled By: Envirodrill Driller: Ryan Logged By: Al Thomson						Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Project No.: Borehole Diameter: 4" Casing Diameter: 2" Well Materials: PVC Surface Completion: Flush Boring Method: HSA	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION		
25	X	50/4	40%	21	CL	SAA, sharp contact @ 26' med-dense, light tan well graded S moist, no odor	NO well		
26					SW				
27									
28	X	50/3	15%	15	SW	med-dense, gray, well graded sand, moist, no odor			
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

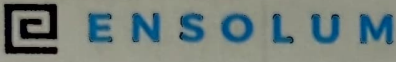
		Client: Hilcorp		BORING LOG NUMBER				
		Project Name: SJ 29-6 U86 Project Location: SJ 29-6 U86 Project Manager: S. Hyde		BH03				
Date Sampled: 4-9-24 Drilled By: Enviadrill Driller: Ryan Logged By: AT		Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Project No.: Borehole Diameter: 4" Casing Diameter: 2" Well Materials: PVC Surface Completion: Flush Boring Method: HSA				
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
0								
1								
2								
3								
4								
5								
6	X	50/2	10%	2	SW	med-dense, reddish brown well graded sand, moist, massive, few fines, No odor, some FeO ₃ No stain	G	G
7	X							
8								
9								
10								
11	X	50/5	20%	1	CL	medium, light brown/olive, lean clay, dry, massive No odor, No stain	G	G
12	X						+	+
13								
14								
15								
16	X	15, 28, 50/5	100%	3	CL	SAA, light gray No odor, No stain		
17	X							
18								
19							G	G
20								
21	X	50/3	15%	3	CL	SAA	B	B
22	X						B	B
23								
24								
25	X	50/4	15%	5	SW	Dense, gray, well graded sand, moist, No odor, No stain Revised by AT	S	S

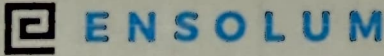
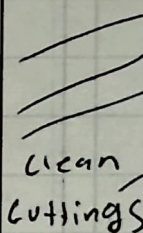
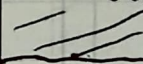
					Client: Hicorp Project Name: ST 24-6 U86 Project Location: 11 Project Manager: S. Hyde		BORING LOG NUMBER BH03	
					Project No.:		Borehole Diameter: 4" Casing Diameter: 2" Well Materials: PVC Surface Completion: Flush Boring Method: HSA	
Date Sampled: 4-9-24 Drilled By: Envirodrill Driller: Ryan Logged By: Al Thomson					Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:			
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
25						Re-drilled BH03, initially refusal @ 24'. Re-drill got all the way to 30' but no additional samples.		
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

		Client: HEC		BORING LOG NUMBER	
		Project Name: SJ 29-6 U 86		BH04	
Project Location: SJ 29-6 U 86		Project Manager: S. Hyde		Project No.:	
Date Sampled: 4-9-24		Ground Surface Elevation:		Borehole Diameter: 4"	
Drilled By: Envirodrill		Top of Casing Elevation:		Casing Diameter: 2"	
Driller: Ryan		North Coordinate:		Well Materials: PVC	
Logged By: Al Thomson		West Coordinate:		Surface Completion: Flush	
Boring Method: HSA					

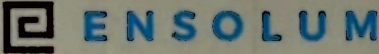
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
1							
2							
3							
4							
5							
6	X	50/5	10%	6	SW	Loose, tan/brown well graded sand, moist, massive, No odor, No stain	B
7							
8							
9							
10							
11	X	18, 50/5	20%	2550	SW	SAA, sharp contact @ 11'	
12					CL	soft, brown lean clay, moist, massive, No odor, No stain	Sand
13							
14							Bentonite
15							B
16	X	18.32, 50/5	50%	420	CL	stiff gray lean clay, dry, massive, some FeO ₃ , strong odor	
17							
18							
19							clean backfill
20							
21	X	50/6	10%	320	CL	SAA, light gray, cohesive slight odor	
22							
23							
24							
25							

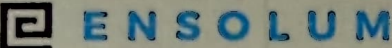
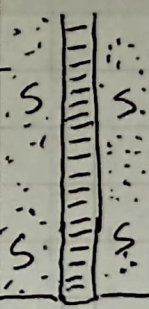
						Client: Hilcorp Project Name: ST 29-6 086 Project Location: 11 Project Manager: S. Hyde		BORING LOG NUMBER BH04 Project No.:	
Date Sampled: 4-9-24 Drilled By: Envirodrill Driller: RYan Logged By: Al Thomson						Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Borehole Diameter: 4" Casing Diameter: 2" Well Materials: PVC Surface Completion: Flush Boring Method: HSA	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION		
25	X	50/2	15%	75	SW	SAA, sharp contact @ 26' tan well graded sand, dense, moist, massive, no odor/stain	Clean Backfill		
26									
27									
28	X	50/3	20%	31	SW	Gray well graded sand, dense moist, massive, no odor/stain			
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
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41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

						Client: Hilcorp Project Name: SJ 29-6 086 Project Location: 11 Project Manager: S. Hyde		BORING LOG NUMBER BH05	
						Date Sampled: 4-9-24 Drilled By: Envirodrill Driller: Ryan Logged By: Al Thomson		Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION		
0									
1									
2									
3									
4									
5									
6	X	50/5	15%	4	SW	Tan/brown, loose, well graded sand moist, massive, few gravel, no odor, no stain	G	G	
7							r	r	
8							v	v	
9							t	t	
10									
11	X	19/22, 29	85%	685	CL	Dark brown, soft, lean clay moist, massive, med-plasticity slight odor, no stain	B	B	
12									
13							S	S	
14									
15									
16	X	22, 21, 29	80%	2040	CL	SAA, light brown, dry			
17									
18									
19									
20									
21	X	50/3	10%	37	CL	Stiff, gray lean clay, dry massive cohesive slight odor			
22									
23									
24									
25									
							Sand		
							Bentonite		
							Backfill		

				Client: Hilcorp Project Name: SJ 29-6 U86 Project Location: 11 Project Manager: S. Hyde		BORING LOG NUMBER BH05 Project No.:	
Date Sampled: 4-9-24 Drilled By: Envirodrill Driller: Ryan Logged By: Al Thomson				Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Borehole Diameter: 4" Casing Diameter: 2" Well Materials: PVC Surface Completion: FLUSH Boring Method: HSA	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25	X	50/1	5%	105	CL	stiff, gray lean clay massive, cohesive, dry slight odor	 clean cuttings
26							
27							
28	X	50/1	10%	147	SW	med-dense, gray well graded sand, moist, No odor	 clean cuttings
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

Nested

					Client: Hicorp Project Name: SJ 29-6 086 Project Location: 11 Project Manager: S. Hyde		BORING LOG NUMBER BH06 Project No.:	
Date Sampled: 4-10-24 Drilled By: Envirodrill Driller: Ryan Logged By: Al Thomson					Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Borehole Diameter: 4" Casing Diameter: 2" Well Materials: PVC Surface Completion: Flush Boring Method: HSA	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
0								
1								
2								
3								
4								
5								
6	X	50/5	15%	325	SW	red-dense, tan well graded sand, moist, massive, slight odor, no stain		
7								
8								
9								
10								
11	X	18, 50	40%	195	CL	stiff soft, brown lean clay, moist massive mod odor		
12								
13								
14								
15								
16	X	17, 22, 28	70%	2900	CL	medium, gray lean clay, moist, massive strong odor		
17								
18								
19								
20								
21	X	40, 50/4	50%	795	CL	SAA mod odor		
22								
23								
24								
25								

					Client: Hilcorp Project Name: SS 29-6 v 86 Project Location: 11 Project Manager: S. Hyde		BORING LOG NUMBER BH06 Project No:	
					Date Sampled: 4-10-24 Drilled By: EnviroDrill Driller: Ryan Logged By: Al Thomson		Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
25	X	50/2	109%	388	CL	SAA, sharp contact @26'		
26					SW	tan, well graded sand, dense, moist, mod odor		
27								
28								
29								
30	X	50/1	10%	108	SW	SAA, No odor		
31								
32								
33								
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35								
36								
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50								



APPENDIX C

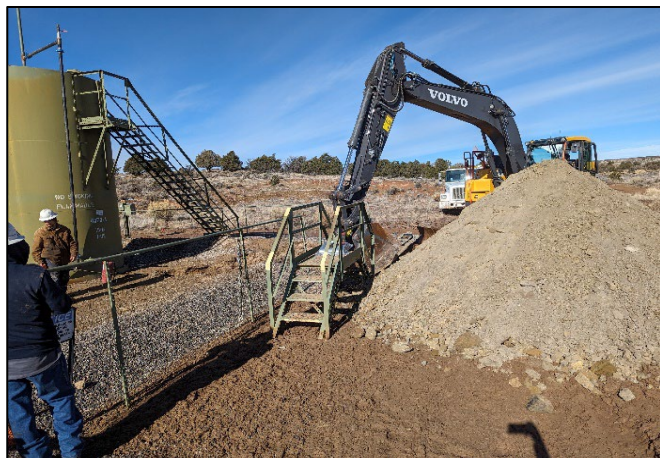
Photographic Log

**Photographic Log**

Hilcorp Energy Company

San Juan 29-6 Unit 86

Rio Arriba County, New Mexico



Photograph: 1
Description: Pothole PH01
View: West

Date: 2/5/2024



Photograph: 2
Description: Pothole PH02
View: West

Date: 2/22/2024



Photograph: 3
Description: Boring BH01 completed as SVE well
View: South

Date: 4/10/2024



Photograph: 4
Description: Borings BH01 and BH06 as SVE wells
View: Southwest

Date: 4/10/2024



APPENDIX D

Sampling Notifications

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 306958
Date: Tuesday, January 23, 2024 2:55:56 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401932449.

The sampling event is expected to take place:

When: 01/30/2024 @ 08:30

Where: N-27-29N-06W 790 FSL 1800 FWL (36.6916161,-107.4531784)

Additional Information: Stuart Hyde 970-903-1607 delineation sampling, sampling surface area not representative of release extent.

Additional Instructions: API #: 30-039-07516 (36.691501, -107.45259)

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

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

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 310112
Date: Wednesday, January 31, 2024 3:24:25 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401932449.

The sampling event is expected to take place:

When: 02/05/2024 @ 08:30

Where: N-27-29N-06W 790 FSL 1800 FWL (36.6916161,-107.4531784)

Additional Information: Stuart Hyde (970) 903-1607

Delineation sampling, the sampling surface area maybe less than 30,000 sq ft

Additional Instructions: 36.6916161,-107.4531784

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

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

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 315250
Date: Friday, February 16, 2024 1:42:11 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401932449.

The sampling event is expected to take place:

When: 02/22/2024 @ 08:30

Where: N-27-29N-06W 790 FSL 1800 FWL (36.6916161,-107.4531784)

Additional Information: Stuart Hyde
970-903-1607

Delineation sampling only. Sampling surface area and number of samples may be less than 30,000 sq ft and 20 samples.

Additional Instructions: San Juan 29-6 Unit 86 (API: 30-039-07516) in Rio Arriba County (36.6916161,-107.4531784)

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

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

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 328715
Date: Tuesday, April 2, 2024 8:12:11 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401932449.

The sampling event is expected to take place:

When: 04/08/2024 @ 08:30

Where: N-27-29N-06W 790 FSL 1800 FWL (36.6916161,-107.4531784)

Additional Information: Contact PM Stuart Hyde; 970-903-1607; delineation drilling, sampling surface area is based one call utility locate area where drilling will occur. Five boreholes proposed with 2 samples each.

Additional Instructions: San Juan 29-6 Unit 86 (API: 30-039-07516) in Rio Arriba County (36.6916161,-107.4531784).

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

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

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 328718
Date: Tuesday, April 2, 2024 8:13:26 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401932449.

The sampling event is expected to take place:

When: 04/09/2024 @ 08:30

Where: N-27-29N-06W 790 FSL 1800 FWL (36.6916161,-107.4531784)

Additional Information: Contact PM Stuart Hyde; 970-903-1607; delineation drilling, sampling surface area is based one call utility locate area where drilling will occur. Five boreholes proposed with 2 samples each.

Additional Instructions: San Juan 29-6 Unit 86 (API: 30-039-07516) in Rio Arriba County (36.6916161,-107.4531784).

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

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

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 328723
Date: Tuesday, April 2, 2024 8:14:55 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401932449.

The sampling event is expected to take place:

When: 04/10/2024 @ 08:30

Where: N-27-29N-06W 790 FSL 1800 FWL (36.6916161,-107.4531784)

Additional Information: Contact PM Stuart Hyde; 970-903-1607; delineation drilling, sampling surface area is based one call utility locate area where drilling will occur. Five boreholes proposed with 2 samples each.

Additional Instructions: San Juan 29-6 Unit 86 (API: 30-039-07516) in Rio Arriba County (36.6916161,-107.4531784).

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

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

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

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



APPENDIX E

Laboratory Analytical Reports



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 13, 2024

Samantha Grabert
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX:

RE: SJ 29 6 Unit 86

OrderNo.: 2401B92

Dear Samantha Grabert:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 1/31/2024 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2401B92

Date Reported: 2/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: HA01@1-1.5'

Project: SJ 29 6 Unit 86

Collection Date: 1/30/2024 9:18:00 AM

Lab ID: 2401B92-001

Matrix: SOIL

Received Date: 1/31/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	1100	92		mg/Kg	10	2/5/2024 11:52:00 AM
Motor Oil Range Organics (MRO)	ND	460	D	mg/Kg	10	2/5/2024 11:52:00 AM
Surr: DNOP	0	61.2-134	S	%Rec	10	2/5/2024 11:52:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	1300	94		mg/Kg	20	2/5/2024 3:25:09 PM
Surr: BFB	448	15-244	S	%Rec	20	2/5/2024 3:25:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.47		mg/Kg	20	2/5/2024 3:25:09 PM
Toluene	6.7	0.94		mg/Kg	20	2/5/2024 3:25:09 PM
Ethylbenzene	4.3	0.94		mg/Kg	20	2/5/2024 3:25:09 PM
Xylenes, Total	81	1.9		mg/Kg	20	2/5/2024 3:25:09 PM
Surr: 4-Bromofluorobenzene	109	39.1-146		%Rec	20	2/5/2024 3:25:09 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	2/3/2024 12:25:44 PM

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

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

Page 1 of 12

CLIENT: HILCORP ENERGY

Client Sample ID: HA03@0-0.5'

Project: SJ 29 6 Unit 86

Collection Date: 1/30/2024 10:07:00 AM

Lab ID: 2401B92-003

Matrix: SOIL

Received Date: 1/31/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/2/2024 5:04:26 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/2/2024 5:04:26 PM
Surr: DNOP	108	61.2-134		%Rec	1	2/2/2024 5:04:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/5/2024 1:01:15 PM
Surr: BFB	104	15-244		%Rec	1	2/5/2024 1:01:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/5/2024 1:01:15 PM
Toluene	ND	0.046		mg/Kg	1	2/5/2024 1:01:15 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/5/2024 1:01:15 PM
Xylenes, Total	ND	0.092		mg/Kg	1	2/5/2024 1:01:15 PM
Surr: 4-Bromofluorobenzene	91.4	39.1-146		%Rec	1	2/5/2024 1:01:15 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	59		mg/Kg	20	2/3/2024 12:38:37 PM

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

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

CLIENT: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Lab ID: 2401B92-004

Matrix: SOIL

Client Sample ID: HA04@0-0.5'

Collection Date: 1/30/2024 10:21:00 AM

Received Date: 1/31/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/2/2024 5:28:04 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/2/2024 5:28:04 PM
Surr: DNOP	105	61.2-134		%Rec	1	2/2/2024 5:28:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/5/2024 1:25:06 PM
Surr: BFB	106	15-244		%Rec	1	2/5/2024 1:25:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/5/2024 1:25:06 PM
Toluene	ND	0.048		mg/Kg	1	2/5/2024 1:25:06 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/5/2024 1:25:06 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/5/2024 1:25:06 PM
Surr: 4-Bromofluorobenzene	91.4	39.1-146		%Rec	1	2/5/2024 1:25:06 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	2/3/2024 1:17:14 PM

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

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

CLIENT: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Lab ID: 2401B92-005

Matrix: SOIL

Client Sample ID: HA05@0-0.5'

Collection Date: 1/30/2024 10:30:00 AM

Received Date: 1/31/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/2/2024 5:51:44 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/2/2024 5:51:44 PM
Surr: DNOP	108	61.2-134		%Rec	1	2/2/2024 5:51:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/5/2024 1:49:01 PM
Surr: BFB	106	15-244		%Rec	1	2/5/2024 1:49:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/5/2024 1:49:01 PM
Toluene	ND	0.049		mg/Kg	1	2/5/2024 1:49:01 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/5/2024 1:49:01 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/5/2024 1:49:01 PM
Surr: 4-Bromofluorobenzene	92.0	39.1-146		%Rec	1	2/5/2024 1:49:01 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	59		mg/Kg	20	2/3/2024 1:30:06 PM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: HA06@0-0.5'

Project: SJ 29 6 Unit 86

Collection Date: 1/30/2024 11:11:00 AM

Lab ID: 2401B92-006

Matrix: SOIL

Received Date: 1/31/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/2/2024 6:15:21 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/2/2024 6:15:21 PM
Surr: DNOP	108	61.2-134		%Rec	1	2/2/2024 6:15:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/5/2024 2:12:58 PM
Surr: BFB	102	15-244		%Rec	1	2/5/2024 2:12:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/5/2024 2:12:58 PM
Toluene	ND	0.047		mg/Kg	1	2/5/2024 2:12:58 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/5/2024 2:12:58 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/5/2024 2:12:58 PM
Surr: 4-Bromofluorobenzene	89.6	39.1-146		%Rec	1	2/5/2024 2:12:58 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	2/3/2024 1:42:58 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401B92

13-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: MB-80236	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 80236	RunNo: 102858
Prep Date: 2/2/2024	Analysis Date: 2/3/2024	SeqNo: 3800520 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-80236	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 80236	RunNo: 102858
Prep Date: 2/2/2024	Analysis Date: 2/3/2024	SeqNo: 3800521 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 95.3 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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2401B92
13-Feb-24

Client: HILCORP ENERGY
Project: SJ 29 6 Unit 86

Sample ID: MB-80224	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 80224	RunNo: 102843								
Prep Date: 2/1/2024	Analysis Date: 2/2/2024	SeqNo: 3800103			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		123	61.2	134			

Sample ID: LCS-80224	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80224	RunNo: 102843								
Prep Date: 2/1/2024	Analysis Date: 2/2/2024	SeqNo: 3800104			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.4		5.000		127	69	147			

Sample ID: MB-80220	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 80220	RunNo: 102843								
Prep Date: 2/1/2024	Analysis Date: 2/2/2024	SeqNo: 3800108			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		110	61.2	134			

Sample ID: LCS-80220	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80220	RunNo: 102843								
Prep Date: 2/1/2024	Analysis Date: 2/2/2024	SeqNo: 3800109			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	117	61.9	130			
Surr: DNOP	5.9		5.000		119	69	147			

Sample ID: MB-80223	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 80223	RunNo: 102856								
Prep Date: 2/1/2024	Analysis Date: 2/2/2024	SeqNo: 3800484			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		107	61.2	134			

Sample ID: LCS-80223	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80223	RunNo: 102856								
Prep Date: 2/1/2024	Analysis Date: 2/2/2024	SeqNo: 3800485			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
- 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401B92

13-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: LCS-80223	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80223	RunNo: 102856								
Prep Date: 2/1/2024	Analysis Date: 2/2/2024	SeqNo: 3800485		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	90.3	59.7	135			
Surr: DNOP	5.1		5.000		102	61.2	134			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401B92

13-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: ics-80192	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 80192				RunNo: 102837					
Prep Date: 1/31/2024	Analysis Date: 2/2/2024				SeqNo: 3799767	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	70	130			
Surr: BFB	2200		1000		222	15	244			

Sample ID: mb-80192	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 80192				RunNo: 102837					
Prep Date: 1/31/2024	Analysis Date: 2/2/2024				SeqNo: 3799768	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	244			

Sample ID: ics-80203	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 80203				RunNo: 102873					
Prep Date: 2/1/2024	Analysis Date: 2/5/2024				SeqNo: 3800986	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	70	130			
Surr: BFB	2100		1000		206	15	244			

Sample ID: mb-80203	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 80203				RunNo: 102873					
Prep Date: 2/1/2024	Analysis Date: 2/5/2024				SeqNo: 3800987	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.1	15	244			

Sample ID: 2401b92-003ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: HA03@0-0.5'	Batch ID: 80203				RunNo: 102873					
Prep Date: 2/1/2024	Analysis Date: 2/5/2024				SeqNo: 3801432	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.6	23.06	0	96.8	70	130			
Surr: BFB	1900		922.5		208	15	244			

Sample ID: 2401b92-003amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: HA03@0-0.5'	Batch ID: 80203				RunNo: 102873					
Prep Date: 2/1/2024	Analysis Date: 2/5/2024				SeqNo: 3801433	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.6	23.06	0	96.8	70	130			
Surr: BFB	1900		922.5		208	15	244			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401B92

13-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: 2401b92-003amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: HA03@0-0.5'	Batch ID: 80203			RunNo: 102873						
Prep Date: 2/1/2024	Analysis Date: 2/5/2024			SeqNo: 3801433			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.6	23.17	0	97.5	70	130	1.20	20	
Surr: BFB	1900		926.8		210	15	244	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401B92

13-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: LCS-80192	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 80192			RunNo: 102837						
Prep Date: 1/31/2024	Analysis Date: 2/2/2024			SeqNo: 3799772			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	70	130			
Toluene	0.89	0.050	1.000	0	88.8	70	130			
Ethylbenzene	0.89	0.050	1.000	0	88.8	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.2	70	130			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.6	39.1	146			

Sample ID: mb-80192	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 80192			RunNo: 102837						
Prep Date: 1/31/2024	Analysis Date: 2/2/2024			SeqNo: 3799773			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	0.88		1.000		88.0	39.1	146			

Sample ID: LCS-80203	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 80203			RunNo: 102873						
Prep Date: 2/1/2024	Analysis Date: 2/5/2024			SeqNo: 3800993			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.4	70	130			
Toluene	0.84	0.050	1.000	0	84.2	70	130			
Ethylbenzene	0.85	0.050	1.000	0	85.4	70	130			
Xylenes, Total	2.6	0.10	3.000	0	85.8	70	130			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	39.1	146			

Sample ID: mb-80203	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 80203			RunNo: 102873						
Prep Date: 2/1/2024	Analysis Date: 2/5/2024			SeqNo: 3800994			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	0.89		1.000		88.6	39.1	146			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401B92

13-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: 2401b92-004ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: HA04@0-0.5'	Batch ID: 80203		RunNo: 102873							
Prep Date: 2/1/2024	Analysis Date: 2/5/2024		SeqNo: 3801492		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.024	0.9634	0	77.1	70	130			
Toluene	0.76	0.048	0.9634	0	78.5	70	130			
Ethylbenzene	0.77	0.048	0.9634	0.01027	78.9	70	130			
Xylenes, Total	2.4	0.096	2.890	0.06783	80.4	70	130			
Surr: 4-Bromofluorobenzene	0.87		0.9634		90.5	39.1	146			

Sample ID: 2401b92-004amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: HA04@0-0.5'	Batch ID: 80203	RunNo: 102873								
Prep Date: 2/1/2024	Analysis Date: 2/6/2024	SeqNo: 3801494			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.024	0.9653	0	74.0	70	130	3.89	20	
Toluene	0.74	0.048	0.9653	0	76.2	70	130	2.74	20	
Ethylbenzene	0.74	0.048	0.9653	0.01027	76.0	70	130	3.48	20	
Xylenes, Total	2.3	0.097	2.896	0.06783	78.5	70	130	2.14	20	
Surr: 4-Bromofluorobenzene	0.88		0.9653		91.4	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 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 12 of 12

Page 49 of 123
Received by OCD: 7/30/2024 10:19:58 AM
Released to Imaging: 8/5/2024 2:58:17 PM



Environment Testin

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HILCORP ENERGY

Work Order Number: 2401B92

RcptNo: 1

Received By: Tracy Casarrubias

1/31/2024 7:00:00 AM

Completed By: Tracy Casarrubias

1/31/2024 7:57:08 AM

Reviewed By:

SCM 1/31/24

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: JM 1/31/24

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

Mailing address is missing on COC- TMC 1/31/24

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Hilcorp Energy Company

Attn: Samantha Grabert

Mailing Address:

Phone #: 337-781-9630

email or Fax#: Samantha.Gabett@hillslope.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5-day

☒ **Standard** ☐ **Rush**

Project Name:

SJ 29-6 Unit 86

Project #:

Project Manager:

S. Hyde

Sampler: Al Thomson

On Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): $4.7 - 0.1 = 4.6$ ($^{\circ}\text{C}$)

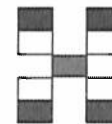
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1-30	9:18	Soil	HA01@ 1-1.5'	1x 4oz	Cool	2401B92 001
	9:50		HA02@ 0-0.5'			002
	10:07		HA03@ 0-0.5'			003
	1021		HA04@ 0-0.5'			004
	1030		HA05@ 0-0.5'			005
	11:11		HA06@ 0-0.5'			006

Date:	Time:	Relinquished by:
1-30	1506	Al Thomson 

Date: 1/25/24	Time: 1728	Relinquished by: Mark W. Galt
------------------	---------------	----------------------------------

Received by:	Via:	Date	Time
<i>Chia Hwa</i>		1/30/24	1500

Received by: _____ Via: runner Date: _____ Time: 7:00



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks: Please CC: shyde@ensolum.com
WWeichert@ensolum.com



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 15, 2024

Samantha Grabert
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX:

RE: San Juan 29 6 Unit 86

OrderNo.: 2402216

Dear Samantha Grabert:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 2/6/2024 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

CLIENT: HILCORP ENERGY

Client Sample ID: PH01@7'

Project: San Juan 29 6 Unit 86

Collection Date: 2/5/2024 9:40:00 AM

Lab ID: 2402216-001

Matrix: SOIL

Received Date: 2/6/2024 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	2100	97		mg/Kg	10	2/9/2024 12:19:47 PM
Motor Oil Range Organics (MRO)	ND	490	D	mg/Kg	10	2/9/2024 12:19:47 PM
Surr: DNOP	0	61.2-134	S	%Rec	10	2/9/2024 12:19:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	2800	49		mg/Kg	10	2/11/2024 8:59:55 PM
Surr: BFB	1120	15-244	S	%Rec	10	2/11/2024 8:59:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	0.64	0.25		mg/Kg	10	2/11/2024 8:59:55 PM
Toluene	34	0.49		mg/Kg	10	2/11/2024 8:59:55 PM
Ethylbenzene	12	0.49		mg/Kg	10	2/11/2024 8:59:55 PM
Xylenes, Total	220	9.9		mg/Kg	100	2/12/2024 1:07:41 PM
Surr: 4-Bromofluorobenzene	134	39.1-146		%Rec	10	2/11/2024 8:59:55 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	2/9/2024 1:24:49 PM

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

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

Analytical Report

Lab Order 2402216

Date Reported: 2/15/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: PH01@17'

Project: San Juan 29 6 Unit 86

Collection Date: 2/5/2024 10:00:00 AM

Lab ID: 2402216-002

Matrix: SOIL

Received Date: 2/6/2024 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	83	9.5		mg/Kg	1	2/9/2024 12:07:57 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/9/2024 12:07:57 PM
Surr: DNOP	88.7	61.2-134		%Rec	1	2/9/2024 12:07:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	49	4.9		mg/Kg	1	2/12/2024 1:31:22 PM
Surr: BFB	367	15-244	S	%Rec	1	2/12/2024 1:31:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/12/2024 1:31:22 PM
Toluene	ND	0.049		mg/Kg	1	2/12/2024 1:31:22 PM
Ethylbenzene	0.11	0.049		mg/Kg	1	2/12/2024 1:31:22 PM
Xylenes, Total	1.4	0.099		mg/Kg	1	2/12/2024 1:31:22 PM
Surr: 4-Bromofluorobenzene	98.2	39.1-146		%Rec	1	2/12/2024 1:31:22 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	2/9/2024 1:37:10 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402216

15-Feb-24

Client: HILCORP ENERGY

Project: San Juan 29 6 Unit 86

Sample ID: MB-80358	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 80358	RunNo: 103010								
Prep Date: 2/9/2024	Analysis Date: 2/9/2024	SeqNo: 3807709		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-80358	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 80358	RunNo: 103010								
Prep Date: 2/9/2024	Analysis Date: 2/9/2024	SeqNo: 3807710		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402216

15-Feb-24

Client: HILCORP ENERGY

Project: San Juan 29 6 Unit 86

Sample ID: MB-80330	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 80330	RunNo: 102994								
Prep Date: 2/7/2024	Analysis Date: 2/8/2024	SeqNo: 3806975		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	61.2	134			

Sample ID: LCS-80330	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80330	RunNo: 102994								
Prep Date: 2/7/2024	Analysis Date: 2/8/2024	SeqNo: 3806976		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	10	50.00	0	123	59.7	135			
Surr: DNOP	5.3		5.000		105	61.2	134			

- 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402216

15-Feb-24

Client: HILCORP ENERGY

Project: San Juan 29 6 Unit 86

Sample ID: ics-80289	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 80289	RunNo: 103014								
Prep Date: 2/7/2024	Analysis Date: 2/11/2024	SeqNo: 3807952	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB	2000		1000		203	15	244			

Sample ID: mb-80289	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 80289	RunNo: 103014								
Prep Date: 2/7/2024	Analysis Date: 2/11/2024	SeqNo: 3807953	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		97.7	15	244			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402216

15-Feb-24

Client: HILCORP ENERGY

Project: San Juan 29 6 Unit 86

Sample ID: LCS-80289	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 80289	RunNo: 103014								
Prep Date: 2/7/2024	Analysis Date: 2/11/2024	SeqNo: 3807961	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.1	70	130			
Toluene	0.87	0.050	1.000	0	87.0	70	130			
Ethylbenzene	0.88	0.050	1.000	0	87.7	70	130			
Xylenes, Total	2.6	0.10	3.000	0	87.9	70	130			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.8	39.1	146			

Sample ID: mb-80289	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 80289	RunNo: 103014								
Prep Date: 2/7/2024	Analysis Date: 2/11/2024	SeqNo: 3807962	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	0.87		1.000		87.0	39.1	146			

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



Environment Testin

Eurofins Environment Testing South

Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Hilcorp Energy

Work Order Number: 2402216

RcptNo: 1

Received By: Tracy Casarrubias 2/6/2024 6:40:00 AM

Completed By: Tracy Casarrubias 2/6/2024 7:39:21 AM

Reviewed By:  2/6/24Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

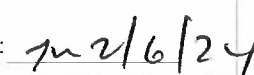
Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

Mailing address and phone number are missing on COC- TMC 2/6/24

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Hilcorp Energy Company

Attn: Samantha Grabert

Mailing Address:

Phone #:

email or Fax#: Samantha.Glabert@hilcorp.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

5-day

☒ Standard ☐ Rush

Project Name:

San Juan 29-6 unit 86

Project #:

Project Manager:

Stuart Hyde

Sampler: Al Thomson

On Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): $1.4 \pm 0 = 1.4$ ($^{\circ}\text{C}$)Container
Type and #Preservative
Type

HEAL No.

7407216

Date	Time	Matrix	Sample Name
------	------	--------	-------------

2-5	9:40	Soil	PH01@7'
-----	------	------	---------

↓	10:00	↓	PH01@17'
---	-------	---	----------

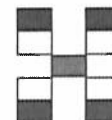
Date:	Time:	Relinquished by:
2-5	1235	AI Thomson

Date:	Time:	Relinquished by:
2/5/24	1742	Christopher Walle

Received by:	Via:	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	2/5/4	1235

Received by: Via courier Date 2/6/24 Time 6:46

Remarks: please CC:
shyde@ensolvum.com
wweichert@ensolvum.com



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 06, 2024

Samantha Grabert
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX

RE: SJ 29 6 Unit 86

OrderNo.: 2402B40

Dear Samantha Grabert:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 2/23/2024 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **2402B40**

Date Reported: 3/6/2024

CLIENT: HILCORP ENERGY

Client Sample ID: PH02@19'

Project: SJ 29 6 Unit 86

Collection Date: 2/22/2024 12:02:00 PM

Lab ID: 2402B40-001

Matrix: SOIL

Received Date: 2/23/2024 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	160	8.4		mg/Kg	1	2/28/2024 12:15:43 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	2/28/2024 12:15:43 PM
Surr: DNOP	93.0	61.2-134		%Rec	1	2/28/2024 12:15:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	97	4.8		mg/Kg	1	2/29/2024 5:00:42 PM
Surr: BFB	320	15-244	S	%Rec	1	2/29/2024 5:00:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/29/2024 5:00:42 PM
Toluene	0.15	0.048		mg/Kg	1	2/29/2024 5:00:42 PM
Ethylbenzene	0.24	0.048		mg/Kg	1	2/29/2024 5:00:42 PM
Xylenes, Total	4.7	0.096		mg/Kg	1	2/29/2024 5:00:42 PM
Surr: 4-Bromofluorobenzene	123	39.1-146		%Rec	1	2/29/2024 5:00:42 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	2/28/2024 4:56:11 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402B40

06-Mar-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: LCS-80683	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 80683			RunNo: 103398						
Prep Date: 2/28/2024	Analysis Date: 2/28/2024			SeqNo: 3825355		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402B40

06-Mar-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: MB-80670	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 80670			RunNo: 103382						
Prep Date: 2/27/2024	Analysis Date: 2/28/2024			SeqNo: 3824505	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	12		10.00		120	61.2	134			

Sample ID: LCS-80670	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 80670			RunNo: 103382						
Prep Date: 2/27/2024	Analysis Date: 2/28/2024			SeqNo: 3824506	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	59.7	135			
Surr: DNOP	6.1		5.000		122	61.2	134			

Sample ID: MB-80688	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 80688			RunNo: 103382						
Prep Date: 2/28/2024	Analysis Date: 2/28/2024			SeqNo: 3824817	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.2	61.2	134			

Sample ID: LCS-80688	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 80688			RunNo: 103382						
Prep Date: 2/28/2024	Analysis Date: 2/28/2024			SeqNo: 3824818	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.2	61.2	134			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402B40

06-Mar-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: lcs-80637	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 80637			RunNo: 103380						
Prep Date: 2/26/2024	Analysis Date: 2/28/2024			SeqNo: 3824465		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	70	130			
Surr: BFB	2000		1000		199	15	244			

Sample ID: mb-80637	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 80637			RunNo: 103380						
Prep Date: 2/26/2024	Analysis Date: 2/28/2024			SeqNo: 3824466		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	15	244			

Sample ID: lcs-80684	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 80684			RunNo: 103426						
Prep Date: 2/28/2024	Analysis Date: 2/29/2024			SeqNo: 3826793		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		204	15	244			

Sample ID: mb-80684	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 80684			RunNo: 103426						
Prep Date: 2/28/2024	Analysis Date: 2/29/2024			SeqNo: 3826794		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	15	244			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402B40

06-Mar-24

Client: HILCORP ENERGY

Project: SJ 29 6 Unit 86

Sample ID: LCS-80637	SampType: LCS			TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 80637			RunNo: 103380							
Prep Date: 2/26/2024	Analysis Date: 2/28/2024			SeqNo: 3824470				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.90	0.025	1.000	0	90.5	70	130				
Toluene	0.93	0.050	1.000	0	93.5	70	130				
Ethylbenzene	0.95	0.050	1.000	0	95.0	70	130				
Xylenes, Total	2.9	0.10	3.000	0	96.4	70	130				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146				

Sample ID: mb-80637	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 80637			RunNo: 103380							
Prep Date: 2/26/2024	Analysis Date: 2/28/2024			SeqNo: 3824471				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		99.4	39.1	146				

Sample ID: LCS-80684	SampType: LCS			TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 80684			RunNo: 103426							
Prep Date: 2/28/2024	Analysis Date: 2/29/2024			SeqNo: 3826808				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.1		1.000		107	39.1	146				

Sample ID: mb-80684	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 80684			RunNo: 103426							
Prep Date: 2/28/2024	Analysis Date: 2/29/2024			SeqNo: 3826809				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.0		1.000		105	39.1	146				

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



Environment Testin

Eurofins Environment Testing South
Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HILCORP ENERGY

Work Order Number: 2402B40

RcptNo: 1

Received By: Juan Rojas

2/23/2024 7:35:00 AM

Completed By: Desiree Dominguez

2/23/2024 8:02:15 AM

Reviewed By: SCM 2/23/24

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

7/2/23/24

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes	Yogi		

Chain-of-Custody Record		Turn-Around Time: <u>5 day</u>
Client: <u>HEC</u>	☒ Standard	☐ Rush
Attn: <u>Samantha Grabert</u>	Project Name: <u>SJ 29-6 Unit 86</u>	
Mailing Address:	Project #:	
Phone #:	Project Manager: <u>S. Hyde</u>	
email or Fax#: <u>SGrabert@Hilecorp.com</u>	QA/QC Package:	
☐ Standard	☐ Level 4 (Full Validation)	
Accreditation: ☐ Az Compliance	Sampler: <u>Peter Anderson</u>	
☐ NELAC	☐ Other	
☐ EDD (Type)	On Ice: ☐ Yes ☐ No	
	# of Coolers: <u>1</u>	

☒ **Standard** ☐ **Rush**

ST 29-6 Unit 86

Project #:

S. Hyde

Sampler: Peter Anderson

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): $1.9 - 0 = 1.9$ ($^{\circ}\text{C}$)

Container Type and #	Preservative Type
-------------------------	----------------------

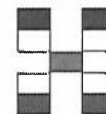
HEAL No.

2402B40

[illegible]

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/22/24	1540				2/22/24	1540

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/22/24	1737	Christine Deters		in person	2/23/24	7:15



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:
CC: Shyde
Wweichert @ Ensolum.com
Panderson

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Environment Testing

- 1
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ANALYTICAL REPORT

PREPARED FOR

Attn: Samantha Grabert
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499
Generated 4/28/2024 8:04:17 PM

JOB DESCRIPTION

San Juan 29-6 Unit 86

JOB NUMBER

885-2774-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Generated
4/28/2024 8:04:17 PM

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Laboratory Job ID: 885-2774-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hilcorp Energy
Project: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Job ID: 885-2774-1

Eurofins Albuquerque

Job Narrative 885-2774-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/12/2024 6:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-78410 and analytical batch 880-78517 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

BH01@10 (885-2774-2), BH01@15 (885-2774-3), BH01@20 (885-2774-4), BH01@25 (885-2774-5), BH01@30 (885-2774-6), BH02@15 (885-2774-8), BH02@30 (885-2774-9) and BH05@10 (885-2774-11)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH01@10

Lab Sample ID: 885-2774-2

Date Collected: 04/08/24 12:50

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	590		100	mg/Kg		04/12/24 13:27	04/16/24 17:01	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	319	S1+	15 - 244			04/12/24 13:27	04/16/24 17:01	20

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.040	mg/Kg		04/12/24 13:27	04/16/24 17:01	20
Ethylbenzene	1.4		1.0	mg/Kg		04/12/24 13:27	04/16/24 17:01	20
Toluene	ND		1.0	mg/Kg		04/12/24 13:27	04/16/24 17:01	20
Xylenes, Total	22		2.0	mg/Kg		04/12/24 13:27	04/16/24 17:01	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135		39 - 146			04/12/24 13:27	04/16/24 17:01	20

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	990		9.9	mg/Kg		04/12/24 16:06	04/15/24 14:30	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/12/24 16:06	04/15/24 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			04/12/24 16:06	04/15/24 14:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/17/24 17:28	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH01@15

Lab Sample ID: 885-2774-3

Date Collected: 04/08/24 13:10

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/12/24 13:27	04/16/24 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		15 - 244	04/12/24 13:27	04/16/24 17:23	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/12/24 13:27	04/16/24 17:23	1
Ethylbenzene	ND		0.047	mg/Kg		04/12/24 13:27	04/16/24 17:23	1
Toluene	ND		0.047	mg/Kg		04/12/24 13:27	04/16/24 17:23	1
Xylenes, Total	ND		0.094	mg/Kg		04/12/24 13:27	04/16/24 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		39 - 146	04/12/24 13:27	04/16/24 17:23	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/12/24 16:06	04/15/24 16:35	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/12/24 16:06	04/15/24 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134	04/12/24 16:06	04/15/24 16:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/17/24 17:42	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH01@20
Date Collected: 04/08/24 13:20
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-4
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/12/24 13:27	04/16/24 17:45		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	105		15 - 244			04/12/24 13:27	04/16/24 17:45		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.023	mg/Kg		04/12/24 13:27	04/16/24 17:45		1
Ethylbenzene	ND		0.046	mg/Kg		04/12/24 13:27	04/16/24 17:45		1
Toluene	ND		0.046	mg/Kg		04/12/24 13:27	04/16/24 17:45		1
Xylenes, Total	ND		0.093	mg/Kg		04/12/24 13:27	04/16/24 17:45		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		39 - 146			04/12/24 13:27	04/16/24 17:45		1
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	11		9.5	mg/Kg		04/12/24 16:06	04/15/24 16:48		1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/12/24 16:06	04/15/24 16:48		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	100		62 - 134			04/12/24 16:06	04/15/24 16:48		1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		5.0	mg/Kg			04/17/24 17:47		1

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH01@25

Lab Sample ID: 885-2774-5

Date Collected: 04/08/24 13:30

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/12/24 13:27	04/16/24 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 244	04/12/24 13:27	04/16/24 18:08	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/12/24 13:27	04/16/24 18:08	1
Ethylbenzene	ND		0.049	mg/Kg		04/12/24 13:27	04/16/24 18:08	1
Toluene	ND		0.049	mg/Kg		04/12/24 13:27	04/16/24 18:08	1
Xylenes, Total	ND		0.098	mg/Kg		04/12/24 13:27	04/16/24 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146	04/12/24 13:27	04/16/24 18:08	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/12/24 16:06	04/15/24 17:00	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/12/24 16:06	04/15/24 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134	04/12/24 16:06	04/15/24 17:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		5.0	mg/Kg			04/17/24 17:52	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH01@30

Lab Sample ID: 885-2774-6

Date Collected: 04/08/24 13:50

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/12/24 13:27	04/16/24 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 244			04/12/24 13:27	04/16/24 18:30	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/12/24 13:27	04/16/24 18:30	1
Ethylbenzene	ND		0.049	mg/Kg		04/12/24 13:27	04/16/24 18:30	1
Toluene	ND		0.049	mg/Kg		04/12/24 13:27	04/16/24 18:30	1
Xylenes, Total	ND		0.098	mg/Kg		04/12/24 13:27	04/16/24 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		39 - 146			04/12/24 13:27	04/16/24 18:30	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/12/24 16:06	04/15/24 17:12	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/12/24 16:06	04/15/24 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			04/12/24 16:06	04/15/24 17:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		5.0	mg/Kg			04/17/24 17:57	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH02@15

Lab Sample ID: 885-2774-8

Date Collected: 04/08/24 14:50

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/12/24 13:27	04/16/24 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244	04/12/24 13:27	04/16/24 18:52	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/12/24 13:27	04/16/24 18:52	1
Ethylbenzene	ND		0.047	mg/Kg		04/12/24 13:27	04/16/24 18:52	1
Toluene	ND		0.047	mg/Kg		04/12/24 13:27	04/16/24 18:52	1
Xylenes, Total	ND		0.094	mg/Kg		04/12/24 13:27	04/16/24 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146	04/12/24 13:27	04/16/24 18:52	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/12/24 16:06	04/15/24 17:25	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/12/24 16:06	04/15/24 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134	04/12/24 16:06	04/15/24 17:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		5.0	mg/Kg			04/17/24 18:02	1

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Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH02@30
Date Collected: 04/08/24 15:10
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-9
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/12/24 13:27	04/16/24 19:15		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	107		15 - 244			04/12/24 13:27	04/16/24 19:15		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		04/12/24 13:27	04/16/24 19:15		1
Ethylbenzene	ND		0.048	mg/Kg		04/12/24 13:27	04/16/24 19:15		1
Toluene	ND		0.048	mg/Kg		04/12/24 13:27	04/16/24 19:15		1
Xylenes, Total	ND		0.096	mg/Kg		04/12/24 13:27	04/16/24 19:15		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		39 - 146			04/12/24 13:27	04/16/24 19:15		1
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		04/12/24 16:06	04/15/24 17:37		1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/12/24 16:06	04/15/24 17:37		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	99		62 - 134			04/12/24 16:06	04/15/24 17:37		1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		5.0	mg/Kg			04/17/24 18:07		1

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH05@10

Lab Sample ID: 885-2774-11

Date Collected: 04/09/24 10:10

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/12/24 17:15	04/17/24 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244	04/12/24 17:15	04/17/24 00:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/12/24 17:15	04/17/24 00:48	1
Ethylbenzene	ND		0.048	mg/Kg		04/12/24 17:15	04/17/24 00:48	1
Toluene	ND		0.048	mg/Kg		04/12/24 17:15	04/17/24 00:48	1
Xylenes, Total	ND		0.095	mg/Kg		04/12/24 17:15	04/17/24 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146	04/12/24 17:15	04/17/24 00:48	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/15/24 13:24	04/15/24 20:18	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/15/24 13:24	04/15/24 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134	04/15/24 13:24	04/15/24 20:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/17/24 18:12	1

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Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH05@15

Lab Sample ID: 885-2774-12

Date Collected: 04/09/24 10:20

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/12/24 17:15	04/17/24 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		15 - 244	04/12/24 17:15	04/17/24 01:10	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/12/24 17:15	04/17/24 01:10	1
Ethylbenzene	ND		0.050	mg/Kg		04/12/24 17:15	04/17/24 01:10	1
Toluene	ND		0.050	mg/Kg		04/12/24 17:15	04/17/24 01:10	1
Xylenes, Total	ND		0.10	mg/Kg		04/12/24 17:15	04/17/24 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146	04/12/24 17:15	04/17/24 01:10	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		04/15/24 13:24	04/15/24 20:31	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/15/24 13:24	04/15/24 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134	04/15/24 13:24	04/15/24 20:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/17/24 18:50	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH05@20

Lab Sample ID: 885-2774-13

Date Collected: 04/09/24 10:30

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/12/24 17:15	04/17/24 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244	04/12/24 17:15	04/17/24 01:32	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/12/24 17:15	04/17/24 01:32	1
Ethylbenzene	ND		0.047	mg/Kg		04/12/24 17:15	04/17/24 01:32	1
Toluene	ND		0.047	mg/Kg		04/12/24 17:15	04/17/24 01:32	1
Xylenes, Total	ND		0.094	mg/Kg		04/12/24 17:15	04/17/24 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146	04/12/24 17:15	04/17/24 01:32	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		04/15/24 13:24	04/15/24 20:55	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/15/24 13:24	04/15/24 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134	04/15/24 13:24	04/15/24 20:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/17/24 19:05	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH05@30

Lab Sample ID: 885-2774-15

Date Collected: 04/09/24 10:50

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/12/24 17:15	04/17/24 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244	04/12/24 17:15	04/17/24 01:54	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/12/24 17:15	04/17/24 01:54	1
Ethylbenzene	ND		0.047	mg/Kg		04/12/24 17:15	04/17/24 01:54	1
Toluene	ND		0.047	mg/Kg		04/12/24 17:15	04/17/24 01:54	1
Xylenes, Total	ND		0.095	mg/Kg		04/12/24 17:15	04/17/24 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146	04/12/24 17:15	04/17/24 01:54	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		04/15/24 13:24	04/15/24 21:08	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		04/15/24 13:24	04/15/24 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134	04/15/24 13:24	04/15/24 21:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/17/24 19:10	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH04@10

Lab Sample ID: 885-2774-17

Date Collected: 04/09/24 12:40

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	20		4.9	mg/Kg		04/12/24 17:15	04/17/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	235		15 - 244			04/12/24 17:15	04/17/24 02:16	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/12/24 17:15	04/17/24 02:16	1
Ethylbenzene	0.051		0.049	mg/Kg		04/12/24 17:15	04/17/24 02:16	1
Toluene	ND		0.049	mg/Kg		04/12/24 17:15	04/17/24 02:16	1
Xylenes, Total	ND		0.097	mg/Kg		04/12/24 17:15	04/17/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		39 - 146			04/12/24 17:15	04/17/24 02:16	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	33		9.6	mg/Kg		04/15/24 13:24	04/15/24 21:20	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/15/24 13:24	04/15/24 21:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			04/15/24 13:24	04/15/24 21:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		5.0	mg/Kg			04/17/24 19:15	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH04@15

Lab Sample ID: 885-2774-18

Date Collected: 04/09/24 12:50

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/12/24 17:15	04/17/24 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244	04/12/24 17:15	04/17/24 03:00	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/12/24 17:15	04/17/24 03:00	1
Ethylbenzene	ND		0.049	mg/Kg		04/12/24 17:15	04/17/24 03:00	1
Toluene	ND		0.049	mg/Kg		04/12/24 17:15	04/17/24 03:00	1
Xylenes, Total	ND		0.099	mg/Kg		04/12/24 17:15	04/17/24 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146	04/12/24 17:15	04/17/24 03:00	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		04/15/24 13:24	04/15/24 21:32	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		04/15/24 13:24	04/15/24 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134	04/15/24 13:24	04/15/24 21:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		5.0	mg/Kg			04/17/24 19:19	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH04@20

Lab Sample ID: 885-2774-19

Date Collected: 04/09/24 13:00

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/12/24 17:15	04/17/24 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244	04/12/24 17:15	04/17/24 03:22	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/12/24 17:15	04/17/24 03:22	1
Ethylbenzene	ND		0.048	mg/Kg		04/12/24 17:15	04/17/24 03:22	1
Toluene	ND		0.048	mg/Kg		04/12/24 17:15	04/17/24 03:22	1
Xylenes, Total	ND		0.096	mg/Kg		04/12/24 17:15	04/17/24 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146	04/12/24 17:15	04/17/24 03:22	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/15/24 13:24	04/15/24 21:44	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/15/24 13:24	04/15/24 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134	04/15/24 13:24	04/15/24 21:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		5.0	mg/Kg			04/17/24 19:34	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH04@25

Lab Sample ID: 885-2774-20

Date Collected: 04/09/24 13:10

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/12/24 17:15	04/17/24 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 244	04/12/24 17:15	04/17/24 03:44	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/12/24 17:15	04/17/24 03:44	1
Ethylbenzene	ND		0.050	mg/Kg		04/12/24 17:15	04/17/24 03:44	1
Toluene	ND		0.050	mg/Kg		04/12/24 17:15	04/17/24 03:44	1
Xylenes, Total	ND		0.10	mg/Kg		04/12/24 17:15	04/17/24 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146	04/12/24 17:15	04/17/24 03:44	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		04/15/24 13:24	04/15/24 21:57	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/15/24 13:24	04/15/24 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134	04/15/24 13:24	04/15/24 21:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		5.0	mg/Kg			04/17/24 19:39	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH03@15

Lab Sample ID: 885-2774-22

Date Collected: 04/09/24 14:00

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/12/24 17:15	04/17/24 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244	04/12/24 17:15	04/17/24 04:06	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/12/24 17:15	04/17/24 04:06	1
Ethylbenzene	ND		0.047	mg/Kg		04/12/24 17:15	04/17/24 04:06	1
Toluene	ND		0.047	mg/Kg		04/12/24 17:15	04/17/24 04:06	1
Xylenes, Total	ND		0.094	mg/Kg		04/12/24 17:15	04/17/24 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146	04/12/24 17:15	04/17/24 04:06	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/15/24 13:24	04/15/24 22:09	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/15/24 13:24	04/15/24 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134	04/15/24 13:24	04/15/24 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/17/24 19:44	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH03@24

Lab Sample ID: 885-2774-23

Date Collected: 04/09/24 14:20

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/12/24 17:15	04/17/24 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244	04/12/24 17:15	04/17/24 04:28	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/12/24 17:15	04/17/24 04:28	1
Ethylbenzene	ND		0.049	mg/Kg		04/12/24 17:15	04/17/24 04:28	1
Toluene	ND		0.049	mg/Kg		04/12/24 17:15	04/17/24 04:28	1
Xylenes, Total	ND		0.098	mg/Kg		04/12/24 17:15	04/17/24 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146	04/12/24 17:15	04/17/24 04:28	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		04/15/24 13:24	04/15/24 22:21	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/15/24 13:24	04/15/24 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134	04/15/24 13:24	04/15/24 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		5.1	mg/Kg			04/17/24 19:48	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH06@5

Lab Sample ID: 885-2774-24

Date Collected: 04/10/24 10:30

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/12/24 17:15	04/17/24 04:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/12/24 17:15	04/17/24 04:50	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/12/24 17:15	04/17/24 04:50	1
Ethylbenzene	ND		0.049	mg/Kg		04/12/24 17:15	04/17/24 04:50	1
Toluene	ND		0.049	mg/Kg		04/12/24 17:15	04/17/24 04:50	1
Xylenes, Total	ND		0.099	mg/Kg		04/12/24 17:15	04/17/24 04:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/12/24 17:15	04/17/24 04:50	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		04/15/24 13:24	04/15/24 22:33	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/15/24 13:24	04/15/24 22:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			04/15/24 13:24	04/15/24 22:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.1	mg/Kg			04/17/24 19:53	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH06@15

Lab Sample ID: 885-2774-26

Date Collected: 04/10/24 10:50

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	11		4.9	mg/Kg		04/12/24 17:15	04/17/24 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166		15 - 244			04/12/24 17:15	04/17/24 05:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/12/24 17:15	04/17/24 05:12	1
Ethylbenzene	ND		0.049	mg/Kg		04/12/24 17:15	04/17/24 05:12	1
Toluene	ND		0.049	mg/Kg		04/12/24 17:15	04/17/24 05:12	1
Xylenes, Total	ND		0.099	mg/Kg		04/12/24 17:15	04/17/24 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		39 - 146			04/12/24 17:15	04/17/24 05:12	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	18		9.8	mg/Kg		04/16/24 11:49	04/17/24 12:17	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/16/24 11:49	04/17/24 12:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			04/16/24 11:49	04/17/24 12:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.1	mg/Kg			04/17/24 19:58	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH06@30

Lab Sample ID: 885-2774-29

Date Collected: 04/10/24 11:20

Matrix: Solid

Date Received: 04/12/24 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/12/24 17:15	04/17/24 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244	04/12/24 17:15	04/17/24 05:34	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/12/24 17:15	04/17/24 05:34	1
Ethylbenzene	ND		0.047	mg/Kg		04/12/24 17:15	04/17/24 05:34	1
Toluene	ND		0.047	mg/Kg		04/12/24 17:15	04/17/24 05:34	1
Xylenes, Total	ND		0.094	mg/Kg		04/12/24 17:15	04/17/24 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		39 - 146	04/12/24 17:15	04/17/24 05:34	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		04/16/24 11:49	04/17/24 12:29	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/16/24 11:49	04/17/24 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134	04/16/24 11:49	04/17/24 12:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		5.0	mg/Kg			04/17/24 20:13	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-3206/1-A

Matrix: Solid

Analysis Batch: 3430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3206

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/12/24 13:27	04/16/24 10:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		15 - 244			04/12/24 13:27	04/16/24 10:07	1

Lab Sample ID: LCS 885-3206/2-A

Matrix: Solid

Analysis Batch: 3430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics [C6 - C10]	25.0	26.3		mg/Kg		105	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	229		15 - 244					

Lab Sample ID: MB 885-3240/1-A

Matrix: Solid

Analysis Batch: 3430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3240

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/12/24 17:15	04/16/24 21:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/12/24 17:15	04/16/24 21:06	1

Lab Sample ID: LCS 885-3240/2-A

Matrix: Solid

Analysis Batch: 3430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics [C6 - C10]	25.0	26.9		mg/Kg		108	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	226		15 - 244					

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-3206/1-A

Matrix: Solid

Analysis Batch: 3432

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3206

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/12/24 13:27	04/16/24 10:07	1
Ethylbenzene	ND		0.050	mg/Kg		04/12/24 13:27	04/16/24 10:07	1
Toluene	ND		0.050	mg/Kg		04/12/24 13:27	04/16/24 10:07	1
Xylenes, Total	ND		0.10	mg/Kg		04/12/24 13:27	04/16/24 10:07	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-3206/1-A

Matrix: Solid

Analysis Batch: 3432

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3206

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146	04/12/24 13:27	04/16/24 10:07	1

Lab Sample ID: LCS 885-3206/3-A

Matrix: Solid

Analysis Batch: 3432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.968		mg/Kg		97	70 - 130
Ethylbenzene	1.00	0.969		mg/Kg		97	70 - 130
m&p-Xylene	2.00	1.94		mg/Kg		97	70 - 130
o-Xylene	1.00	0.973		mg/Kg		97	70 - 130
Toluene	1.00	0.963		mg/Kg		96	70 - 130
Xylenes, Total	3.00	2.91		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		39 - 146

Lab Sample ID: MB 885-3240/1-A

Matrix: Solid

Analysis Batch: 3432

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3240

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/12/24 17:15	04/16/24 21:06	1
Ethylbenzene	ND		0.050	mg/Kg		04/12/24 17:15	04/16/24 21:06	1
Toluene	ND		0.050	mg/Kg		04/12/24 17:15	04/16/24 21:06	1
Xylenes, Total	ND		0.10	mg/Kg		04/12/24 17:15	04/16/24 21:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146	04/12/24 17:15	04/16/24 21:06	1

Lab Sample ID: LCS 885-3240/3-A

Matrix: Solid

Analysis Batch: 3432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.962		mg/Kg		96	70 - 130
Ethylbenzene	1.00	0.971		mg/Kg		97	70 - 130
m&p-Xylene	2.00	1.95		mg/Kg		98	70 - 130
o-Xylene	1.00	0.988		mg/Kg		99	70 - 130
Toluene	1.00	0.956		mg/Kg		96	70 - 130
Xylenes, Total	3.00	2.94		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		39 - 146

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-3233/1-A

Matrix: Solid

Analysis Batch: 3332

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3233

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/12/24 16:06	04/15/24 11:00	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/12/24 16:06	04/15/24 11:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			04/12/24 16:06	04/15/24 11:00	1

Lab Sample ID: LCS 885-3233/2-A

Matrix: Solid

Analysis Batch: 3332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	49.0		mg/Kg		98	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	109		62 - 134				

Lab Sample ID: MB 885-3301/1-A

Matrix: Solid

Analysis Batch: 3332

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3301

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/15/24 13:24	04/15/24 18:02	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/15/24 13:24	04/15/24 18:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			04/15/24 13:24	04/15/24 18:02	1

Lab Sample ID: LCS 885-3301/2-A

Matrix: Solid

Analysis Batch: 3332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	47.4		mg/Kg		95	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	101		62 - 134				

Lab Sample ID: 885-2774-24 MS

Matrix: Solid

Analysis Batch: 3332

Client Sample ID: BH06@5

Prep Type: Total/NA

Prep Batch: 3301

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		46.9	43.5		mg/Kg		93	44 - 136

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-2774-24 MS

Matrix: Solid

Analysis Batch: 3332

Client Sample ID: BH06@5

Prep Type: Total/NA

Prep Batch: 3301

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	105		62 - 134

Lab Sample ID: 885-2774-24 MSD

Matrix: Solid

Analysis Batch: 3332

Client Sample ID: BH06@5

Prep Type: Total/NA

Prep Batch: 3301

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		45.4	43.4		mg/Kg		96	44 - 136	0	32

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	104		62 - 134

Lab Sample ID: MB 885-3340/1-A

Matrix: Solid

Analysis Batch: 3484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3340

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/16/24 11:49	04/17/24 16:58	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/16/24 11:49	04/17/24 16:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	129		62 - 134	04/16/24 11:49	04/17/24 16:58	1

Lab Sample ID: LCS 885-3340/2-A

Matrix: Solid

Analysis Batch: 3484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	63.7		mg/Kg		127	60 - 135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	127		62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-78410/1-A

Matrix: Solid

Analysis Batch: 78517

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/17/24 15:46	1

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QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-78410/2-A

Matrix: Solid

Analysis Batch: 78517

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-78410/3-A

Matrix: Solid

Analysis Batch: 78517

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256		mg/Kg		102	90 - 110	3	20

Lab Sample ID: MB 880-78411/1-A

Matrix: Solid

Analysis Batch: 78519

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/17/24 18:36	1

Lab Sample ID: LCS 880-78411/2-A

Matrix: Solid

Analysis Batch: 78519

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-78411/3-A

Matrix: Solid

Analysis Batch: 78519

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 885-2774-12 MS

Matrix: Solid

Analysis Batch: 78519

Client Sample ID: BH05@15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		252	251		mg/Kg		98	90 - 110

Lab Sample ID: 885-2774-12 MSD

Matrix: Solid

Analysis Batch: 78519

Client Sample ID: BH05@15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		252	250		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 885-2774-26 MS

Matrix: Solid

Analysis Batch: 78519

Client Sample ID: BH06@15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		253	252		mg/Kg		98	90 - 110

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QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-2774-26 MSD							Client Sample ID: BH06@15					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 78519												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	ND		253	251		mg/Kg		98	90 - 110	0	20	

- 1
- 2
- 3
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- 6
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- 8
- 9
- 10
- 11

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

GC VOA

Prep Batch: 3206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-2	BH01@10	Total/NA	Solid	5030C	
885-2774-3	BH01@15	Total/NA	Solid	5030C	
885-2774-4	BH01@20	Total/NA	Solid	5030C	
885-2774-5	BH01@25	Total/NA	Solid	5030C	
885-2774-6	BH01@30	Total/NA	Solid	5030C	
885-2774-8	BH02@15	Total/NA	Solid	5030C	
885-2774-9	BH02@30	Total/NA	Solid	5030C	
MB 885-3206/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3206/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3206/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 3240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-11	BH05@10	Total/NA	Solid	5030C	
885-2774-12	BH05@15	Total/NA	Solid	5030C	
885-2774-13	BH05@20	Total/NA	Solid	5030C	
885-2774-15	BH05@30	Total/NA	Solid	5030C	
885-2774-17	BH04@10	Total/NA	Solid	5030C	
885-2774-18	BH04@15	Total/NA	Solid	5030C	
885-2774-19	BH04@20	Total/NA	Solid	5030C	
885-2774-20	BH04@25	Total/NA	Solid	5030C	
885-2774-22	BH03@15	Total/NA	Solid	5030C	
885-2774-23	BH03@24	Total/NA	Solid	5030C	
885-2774-24	BH06@5	Total/NA	Solid	5030C	
885-2774-26	BH06@15	Total/NA	Solid	5030C	
885-2774-29	BH06@30	Total/NA	Solid	5030C	
MB 885-3240/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3240/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3240/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 3430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-2	BH01@10	Total/NA	Solid	8015D	3206
885-2774-3	BH01@15	Total/NA	Solid	8015D	3206
885-2774-4	BH01@20	Total/NA	Solid	8015D	3206
885-2774-5	BH01@25	Total/NA	Solid	8015D	3206
885-2774-6	BH01@30	Total/NA	Solid	8015D	3206
885-2774-8	BH02@15	Total/NA	Solid	8015D	3206
885-2774-9	BH02@30	Total/NA	Solid	8015D	3206
885-2774-11	BH05@10	Total/NA	Solid	8015D	3240
885-2774-12	BH05@15	Total/NA	Solid	8015D	3240
885-2774-13	BH05@20	Total/NA	Solid	8015D	3240
885-2774-15	BH05@30	Total/NA	Solid	8015D	3240
885-2774-17	BH04@10	Total/NA	Solid	8015D	3240
885-2774-18	BH04@15	Total/NA	Solid	8015D	3240
885-2774-19	BH04@20	Total/NA	Solid	8015D	3240
885-2774-20	BH04@25	Total/NA	Solid	8015D	3240
885-2774-22	BH03@15	Total/NA	Solid	8015D	3240
885-2774-23	BH03@24	Total/NA	Solid	8015D	3240
885-2774-24	BH06@5	Total/NA	Solid	8015D	3240
885-2774-26	BH06@15	Total/NA	Solid	8015D	3240

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QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

GC VOA (Continued)

Analysis Batch: 3430 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-29	BH06@30	Total/NA	Solid	8015D	3240
MB 885-3206/1-A	Method Blank	Total/NA	Solid	8015D	3206
MB 885-3240/1-A	Method Blank	Total/NA	Solid	8015D	3240
LCS 885-3206/2-A	Lab Control Sample	Total/NA	Solid	8015D	3206
LCS 885-3240/2-A	Lab Control Sample	Total/NA	Solid	8015D	3240

Analysis Batch: 3432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-2	BH01@10	Total/NA	Solid	8021B	3206
885-2774-3	BH01@15	Total/NA	Solid	8021B	3206
885-2774-4	BH01@20	Total/NA	Solid	8021B	3206
885-2774-5	BH01@25	Total/NA	Solid	8021B	3206
885-2774-6	BH01@30	Total/NA	Solid	8021B	3206
885-2774-8	BH02@15	Total/NA	Solid	8021B	3206
885-2774-9	BH02@30	Total/NA	Solid	8021B	3206
885-2774-11	BH05@10	Total/NA	Solid	8021B	3240
885-2774-12	BH05@15	Total/NA	Solid	8021B	3240
885-2774-13	BH05@20	Total/NA	Solid	8021B	3240
885-2774-15	BH05@30	Total/NA	Solid	8021B	3240
885-2774-17	BH04@10	Total/NA	Solid	8021B	3240
885-2774-18	BH04@15	Total/NA	Solid	8021B	3240
885-2774-19	BH04@20	Total/NA	Solid	8021B	3240
885-2774-20	BH04@25	Total/NA	Solid	8021B	3240
885-2774-22	BH03@15	Total/NA	Solid	8021B	3240
885-2774-23	BH03@24	Total/NA	Solid	8021B	3240
885-2774-24	BH06@5	Total/NA	Solid	8021B	3240
885-2774-26	BH06@15	Total/NA	Solid	8021B	3240
885-2774-29	BH06@30	Total/NA	Solid	8021B	3240
MB 885-3206/1-A	Method Blank	Total/NA	Solid	8021B	3206
MB 885-3240/1-A	Method Blank	Total/NA	Solid	8021B	3240
LCS 885-3206/3-A	Lab Control Sample	Total/NA	Solid	8021B	3206
LCS 885-3240/3-A	Lab Control Sample	Total/NA	Solid	8021B	3240

GC Semi VOA

Prep Batch: 3233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-2	BH01@10	Total/NA	Solid	SHAKE	
885-2774-3	BH01@15	Total/NA	Solid	SHAKE	
885-2774-4	BH01@20	Total/NA	Solid	SHAKE	
885-2774-5	BH01@25	Total/NA	Solid	SHAKE	
885-2774-6	BH01@30	Total/NA	Solid	SHAKE	
885-2774-8	BH02@15	Total/NA	Solid	SHAKE	
885-2774-9	BH02@30	Total/NA	Solid	SHAKE	
MB 885-3233/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3233/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 3301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-11	BH05@10	Total/NA	Solid	SHAKE	
885-2774-12	BH05@15	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

GC Semi VOA (Continued)

Prep Batch: 3301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-13	BH05@20	Total/NA	Solid	SHAKE	
885-2774-15	BH05@30	Total/NA	Solid	SHAKE	
885-2774-17	BH04@10	Total/NA	Solid	SHAKE	
885-2774-18	BH04@15	Total/NA	Solid	SHAKE	
885-2774-19	BH04@20	Total/NA	Solid	SHAKE	
885-2774-20	BH04@25	Total/NA	Solid	SHAKE	
885-2774-22	BH03@15	Total/NA	Solid	SHAKE	
885-2774-23	BH03@24	Total/NA	Solid	SHAKE	
885-2774-24	BH06@5	Total/NA	Solid	SHAKE	
MB 885-3301/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3301/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2774-24 MS	BH06@5	Total/NA	Solid	SHAKE	
885-2774-24 MSD	BH06@5	Total/NA	Solid	SHAKE	

Analysis Batch: 3332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-2	BH01@10	Total/NA	Solid	8015D	3233
885-2774-3	BH01@15	Total/NA	Solid	8015D	3233
885-2774-4	BH01@20	Total/NA	Solid	8015D	3233
885-2774-5	BH01@25	Total/NA	Solid	8015D	3233
885-2774-6	BH01@30	Total/NA	Solid	8015D	3233
885-2774-8	BH02@15	Total/NA	Solid	8015D	3233
885-2774-9	BH02@30	Total/NA	Solid	8015D	3233
885-2774-11	BH05@10	Total/NA	Solid	8015D	3301
885-2774-12	BH05@15	Total/NA	Solid	8015D	3301
885-2774-13	BH05@20	Total/NA	Solid	8015D	3301
885-2774-15	BH05@30	Total/NA	Solid	8015D	3301
885-2774-17	BH04@10	Total/NA	Solid	8015D	3301
885-2774-18	BH04@15	Total/NA	Solid	8015D	3301
885-2774-19	BH04@20	Total/NA	Solid	8015D	3301
885-2774-20	BH04@25	Total/NA	Solid	8015D	3301
885-2774-22	BH03@15	Total/NA	Solid	8015D	3301
885-2774-23	BH03@24	Total/NA	Solid	8015D	3301
885-2774-24	BH06@5	Total/NA	Solid	8015D	3301
MB 885-3233/1-A	Method Blank	Total/NA	Solid	8015D	3233
MB 885-3301/1-A	Method Blank	Total/NA	Solid	8015D	3301
LCS 885-3233/2-A	Lab Control Sample	Total/NA	Solid	8015D	3233
LCS 885-3301/2-A	Lab Control Sample	Total/NA	Solid	8015D	3301
885-2774-24 MS	BH06@5	Total/NA	Solid	8015D	3301
885-2774-24 MSD	BH06@5	Total/NA	Solid	8015D	3301

Prep Batch: 3340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-26	BH06@15	Total/NA	Solid	SHAKE	
885-2774-29	BH06@30	Total/NA	Solid	SHAKE	
MB 885-3340/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3340/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 3463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-26	BH06@15	Total/NA	Solid	8015D	3340

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QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

GC Semi VOA (Continued)

Analysis Batch: 3463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-29	BH06@30	Total/NA	Solid	8015D	3340

Analysis Batch: 3484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-3340/1-A	Method Blank	Total/NA	Solid	8015D	3340
LCS 885-3340/2-A	Lab Control Sample	Total/NA	Solid	8015D	3340

HPLC/IC

Leach Batch: 78410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-2	BH01@10	Soluble	Solid	DI Leach	
885-2774-3	BH01@15	Soluble	Solid	DI Leach	
885-2774-4	BH01@20	Soluble	Solid	DI Leach	
885-2774-5	BH01@25	Soluble	Solid	DI Leach	
885-2774-6	BH01@30	Soluble	Solid	DI Leach	
885-2774-8	BH02@15	Soluble	Solid	DI Leach	
885-2774-9	BH02@30	Soluble	Solid	DI Leach	
885-2774-11	BH05@10	Soluble	Solid	DI Leach	
MB 880-78410/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78410/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78410/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 78411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-12	BH05@15	Soluble	Solid	DI Leach	
885-2774-13	BH05@20	Soluble	Solid	DI Leach	
885-2774-15	BH05@30	Soluble	Solid	DI Leach	
885-2774-17	BH04@10	Soluble	Solid	DI Leach	
885-2774-18	BH04@15	Soluble	Solid	DI Leach	
885-2774-19	BH04@20	Soluble	Solid	DI Leach	
885-2774-20	BH04@25	Soluble	Solid	DI Leach	
885-2774-22	BH03@15	Soluble	Solid	DI Leach	
885-2774-23	BH03@24	Soluble	Solid	DI Leach	
885-2774-24	BH06@5	Soluble	Solid	DI Leach	
885-2774-26	BH06@15	Soluble	Solid	DI Leach	
885-2774-29	BH06@30	Soluble	Solid	DI Leach	
MB 880-78411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-2774-12 MS	BH05@15	Soluble	Solid	DI Leach	
885-2774-12 MSD	BH05@15	Soluble	Solid	DI Leach	
885-2774-26 MS	BH06@15	Soluble	Solid	DI Leach	
885-2774-26 MSD	BH06@15	Soluble	Solid	DI Leach	

Analysis Batch: 78517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-2	BH01@10	Soluble	Solid	300.0	78410
885-2774-3	BH01@15	Soluble	Solid	300.0	78410
885-2774-4	BH01@20	Soluble	Solid	300.0	78410
885-2774-5	BH01@25	Soluble	Solid	300.0	78410

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QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

HPLC/IC (Continued)

Analysis Batch: 78517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-6	BH01@30	Soluble	Solid	300.0	78410
885-2774-8	BH02@15	Soluble	Solid	300.0	78410
885-2774-9	BH02@30	Soluble	Solid	300.0	78410
885-2774-11	BH05@10	Soluble	Solid	300.0	78410
MB 880-78410/1-A	Method Blank	Soluble	Solid	300.0	78410
LCS 880-78410/2-A	Lab Control Sample	Soluble	Solid	300.0	78410
LCSD 880-78410/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78410

Analysis Batch: 78519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2774-12	BH05@15	Soluble	Solid	300.0	78411
885-2774-13	BH05@20	Soluble	Solid	300.0	78411
885-2774-15	BH05@30	Soluble	Solid	300.0	78411
885-2774-17	BH04@10	Soluble	Solid	300.0	78411
885-2774-18	BH04@15	Soluble	Solid	300.0	78411
885-2774-19	BH04@20	Soluble	Solid	300.0	78411
885-2774-20	BH04@25	Soluble	Solid	300.0	78411
885-2774-22	BH03@15	Soluble	Solid	300.0	78411
885-2774-23	BH03@24	Soluble	Solid	300.0	78411
885-2774-24	BH06@5	Soluble	Solid	300.0	78411
885-2774-26	BH06@15	Soluble	Solid	300.0	78411
885-2774-29	BH06@30	Soluble	Solid	300.0	78411
MB 880-78411/1-A	Method Blank	Soluble	Solid	300.0	78411
LCS 880-78411/2-A	Lab Control Sample	Soluble	Solid	300.0	78411
LCSD 880-78411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78411
885-2774-12 MS	BH05@15	Soluble	Solid	300.0	78411
885-2774-12 MSD	BH05@15	Soluble	Solid	300.0	78411
885-2774-26 MS	BH06@15	Soluble	Solid	300.0	78411
885-2774-26 MSD	BH06@15	Soluble	Solid	300.0	78411

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Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH01@10
Date Collected: 04/08/24 12:50
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8015D		20	3430	RA	EET ALB	04/16/24 17:01
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8021B		20	3432	RA	EET ALB	04/16/24 17:01
Total/NA	Prep	SHAKE			3233	SB	EET ALB	04/12/24 16:06
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 14:30
Soluble	Leach	DI Leach			78410	SA	EET MID	04/16/24 14:48
Soluble	Analysis	300.0		1	78517	SMC	EET MID	04/17/24 17:28

Client Sample ID: BH01@15
Date Collected: 04/08/24 13:10
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/16/24 17:23
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/16/24 17:23
Total/NA	Prep	SHAKE			3233	SB	EET ALB	04/12/24 16:06
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 16:35
Soluble	Leach	DI Leach			78410	SA	EET MID	04/16/24 14:48
Soluble	Analysis	300.0		1	78517	SMC	EET MID	04/17/24 17:42

Client Sample ID: BH01@20
Date Collected: 04/08/24 13:20
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/16/24 17:45
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/16/24 17:45
Total/NA	Prep	SHAKE			3233	SB	EET ALB	04/12/24 16:06
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 16:48
Soluble	Leach	DI Leach			78410	SA	EET MID	04/16/24 14:48
Soluble	Analysis	300.0		1	78517	SMC	EET MID	04/17/24 17:47

Client Sample ID: BH01@25
Date Collected: 04/08/24 13:30
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/16/24 18:08

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Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH01@25

Lab Sample ID: 885-2774-5

Date Collected: 04/08/24 13:30

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/16/24 18:08
Total/NA	Prep	SHAKE			3233	SB	EET ALB	04/12/24 16:06
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 17:00
Soluble	Leach	DI Leach			78410	SA	EET MID	04/16/24 14:48
Soluble	Analysis	300.0		1	78517	SMC	EET MID	04/17/24 17:52

Client Sample ID: BH01@30

Lab Sample ID: 885-2774-6

Date Collected: 04/08/24 13:50

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/16/24 18:30
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/16/24 18:30
Total/NA	Prep	SHAKE			3233	SB	EET ALB	04/12/24 16:06
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 17:12
Soluble	Leach	DI Leach			78410	SA	EET MID	04/16/24 14:48
Soluble	Analysis	300.0		1	78517	SMC	EET MID	04/17/24 17:57

Client Sample ID: BH02@15

Lab Sample ID: 885-2774-8

Date Collected: 04/08/24 14:50

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/16/24 18:52
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/16/24 18:52
Total/NA	Prep	SHAKE			3233	SB	EET ALB	04/12/24 16:06
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 17:25
Soluble	Leach	DI Leach			78410	SA	EET MID	04/16/24 14:48
Soluble	Analysis	300.0		1	78517	SMC	EET MID	04/17/24 18:02

Client Sample ID: BH02@30

Lab Sample ID: 885-2774-9

Date Collected: 04/08/24 15:10

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/16/24 19:15
Total/NA	Prep	5030C			3206	JP	EET ALB	04/12/24 13:27
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/16/24 19:15

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Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH02@30

Lab Sample ID: 885-2774-9

Date Collected: 04/08/24 15:10

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			3233	SB	EET ALB	04/12/24 16:06
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 17:37
Soluble	Leach	DI Leach			78410	SA	EET MID	04/16/24 14:48
Soluble	Analysis	300.0		1	78517	SMC	EET MID	04/17/24 18:07

Client Sample ID: BH05@10

Lab Sample ID: 885-2774-11

Date Collected: 04/09/24 10:10

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 00:48
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 00:48
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 20:18
Soluble	Leach	DI Leach			78410	SA	EET MID	04/16/24 14:48
Soluble	Analysis	300.0		1	78517	SMC	EET MID	04/17/24 18:12

Client Sample ID: BH05@15

Lab Sample ID: 885-2774-12

Date Collected: 04/09/24 10:20

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 01:10
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 01:10
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 20:31
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 18:50

Client Sample ID: BH05@20

Lab Sample ID: 885-2774-13

Date Collected: 04/09/24 10:30

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 01:32
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 01:32
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 20:55

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Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH05@20
Date Collected: 04/09/24 10:30
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:05

Client Sample ID: BH05@30
Date Collected: 04/09/24 10:50
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 01:54
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 01:54
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 21:08
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:10

Client Sample ID: BH04@10
Date Collected: 04/09/24 12:40
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 02:16
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 02:16
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 21:20
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:15

Client Sample ID: BH04@15
Date Collected: 04/09/24 12:50
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 03:00
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 03:00
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 21:32
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:19

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH04@20
Date Collected: 04/09/24 13:00
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 03:22
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 03:22
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 21:44
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:34

Client Sample ID: BH04@25
Date Collected: 04/09/24 13:10
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 03:44
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 03:44
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 21:57
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:39

Client Sample ID: BH03@15
Date Collected: 04/09/24 14:00
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 04:06
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 04:06
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 22:09
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:44

Client Sample ID: BH03@24
Date Collected: 04/09/24 14:20
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 04:28

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH03@24

Lab Sample ID: 885-2774-23

Date Collected: 04/09/24 14:20

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 04:28
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 22:21
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:48

Client Sample ID: BH06@5

Lab Sample ID: 885-2774-24

Date Collected: 04/10/24 10:30

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 04:50
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 04:50
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 22:33
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:53

Client Sample ID: BH06@15

Lab Sample ID: 885-2774-26

Date Collected: 04/10/24 10:50

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 05:12
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 05:12
Total/NA	Prep	SHAKE			3340	DH	EET ALB	04/16/24 11:49
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 12:17
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 19:58

Client Sample ID: BH06@30

Lab Sample ID: 885-2774-29

Date Collected: 04/10/24 11:20

Matrix: Solid

Date Received: 04/12/24 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8015D		1	3430	RA	EET ALB	04/17/24 05:34
Total/NA	Prep	5030C			3240	JP	EET ALB	04/12/24 17:15
Total/NA	Analysis	8021B		1	3432	RA	EET ALB	04/17/24 05:34

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Client Sample ID: BH06@30
Date Collected: 04/10/24 11:20
Date Received: 04/12/24 06:50

Lab Sample ID: 885-2774-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			3340	DH	EET ALB	04/16/24 11:49
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 12:29
Soluble	Leach	DI Leach			78411	SA	EET MID	04/16/24 14:50
Soluble	Analysis	300.0		1	78519	SMC	EET MID	04/17/24 20:13

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 Unit 86

Job ID: 885-2774-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

885-2774 COC



5-day

Remarks:
cc: shyde@ensolum.com
athomson@ensolum.com

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

☒ EDD (Type) _____

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Container	Preservative	HEAL No.
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Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Cooler Temp(Including CF): $3.9 \pm 0 = 3.3$ (°C)		
				Container Type and #	Preservative Type	HEAL No.
4-9	1400	Soil	BH03@15	1x 4oz	Cool	22
4-9	1420	Soil	BH03@24			23
4-10	1030		BH06@5			24
	1040		BH06@10			25
	1050		BH06@15			26
	1100		BH06@20			27
	1110		BH06@25			28
	1120		BH06@30			29

Received by: Via: Courier Date 4/12/24 Time 6:50

Remarks: Please CC:
shyde@ensolvm.com
athomson@ensolvm.com

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-2774-1

Login Number: 2774

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Sample splitting required for subcontract purposes.
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-2774-1

Login Number: 2774
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 04/17/24 12:03 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 368318

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID:
	372171
	Action Number:
	368318
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401932449
Incident Name	NAPP2401932449 SAN JUAN 29-6 UNIT 86 @ 30-039-07516
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-039-07516] SAN JUAN 29 6 UNIT #086

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAN JUAN 29-6 UNIT 86
Date Release Discovered	01/18/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Dump Line Produced Water Released: 17 BBL Recovered: 0 BBL Lost: 17 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Equipment Failure Dump Line Condensate Released: 16 BBL Recovered: 0 BBL Lost: 16 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 368318

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID:	372171
	Action Number:	368318
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/30/2024
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QUESTIONS, Page 3

Action 368318

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID:
	372171
	Action Number:
	368318
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 200 and 300 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 200 and 300 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 100 and 200 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	18
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	4900
GRO+DRO	(EPA SW-846 Method 8015M)	4900
BTEX	(EPA SW-846 Method 8021B or 8260B)	267
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.6

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

On what estimated date will the remediation commence	09/01/2024
On what date will (or did) the final sampling or liner inspection occur	09/30/2024
On what date will (or was) the remediation complete(d)	09/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1600
What is the estimated volume (in cubic yards) that will be remediated	600

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

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

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QUESTIONS, Page 4

Action 368318

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 368318
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Yes
Which OCD approved facility will be used for on-site disposal	Not answered.
OR which OCD approved well (API) will be used for on-site disposal	30-039-24995 SAN JUAN 28 6 UNIT #436
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/30/2024
--	--

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

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QUESTIONS, Page 5

Action 368318

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 368318
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 368318

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 368318
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	328723
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/10/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	20000

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

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CONDITIONS

Action 368318

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 368318
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	The remediation plan is approved as written. Hilcorp has 90-days (November 4, 2024) to submit to OCD its appropriate or final remediation closure report.	8/5/2024