

February 13, 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 29-5 Unit 24 Hilcorp Energy Company

NMOCD Incident No: nAPP2330638542

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 29-5 Unit 24 natural gas production well (Site). The Site is located on private land in Rio Arriba County, New Mexico, Unit B, Section 17, Township 29 North, Range 5 West (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 crude oil (condensate) and produced water.

SITE BACKGROUND

On October 20, 2023, Hilcorp discovered a release of 4.5 barrels (bbls) of crude oil (condensate) and 3.11 bbls of produced water at the Site. Upon inspection, corrosion holes were discovered at the bottom of the condensate aboveground storage tank (AST). The released fluids pooled immediately around the AST and stayed within the secondary containment. No released fluids were recovered. Hilcorp reported the release to the New Mexico Oil Conservation Division (NMOCD) on a *Release Notification Form C-141* on November 2, 2023. The NMOCD has assigned the Site Incident Number nAPP2330638542.

SITE CHARACTERIZATION

The Site is located on private land in Rio Arriba County, New Mexico. 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 hydrologic 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.

San Juan 29-5 Unit 24

POTENTIAL SENSITIVE RECEPTORS

Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and Site-specific observations.

The nearest surface water feature is a dry stock pond 930 feet to the west southwest of the Site (Figure 2). Of note, a dashed blue line is present on the USGS 7.5-minute quadrangle maps for this area (solid blue line indicated on Figures 1 and 3). Ensolum personnel performed a Site walk during field activities to assess for the presence of a water feature or dry wash with a defined bed and bank within 300 feet of the Site that may be considered a "significant watercourse" as defined in 19.15.17.7 NMAC. Photographs 1 through 4 (presented in Appendix A) were taken along the pathway of the USGS identified water feature and show a watercourse with a defined bed and bank is not present within 300 feet of the Site. Based on the Site reconnaissance, the significant watercourse as identified by a defined bed and bank begins at the stock pond located 930 feet west of the Site.

The nearest water well to the Site is located approximately 7,781 feet southeast of the Site (NMOSE permit SJ-03592); however, depth to water information is not provided in the NMOSE database. The nearest water well to the Site with depth to water information is NMOSE well SJ-03593-POD1 (Appendix B), located approximately 9,668 feet southeast of the Site. This well indicates the groundwater is approximately 300 feet below ground surface (bgs). The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland. No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area not designated as high potential karst by the Bureau of Land Management). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site. A Site receptor map is shown on Figure 1.

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:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- GRO+DRO: 1,000 mg/kgChloride: 20,000 mg/kg

DELINEATION AND SOIL SAMPLING ACTIVITIES

Upon discovery of the release, Hilcorp personnel conducted initial delineation activities on October 25 and November 1, 2023. Sampling locations S-1 through S-4 were advanced within the secondary containment berm. Samples were submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico and analyzed for TPH following Environmental Protection Agency (EPA) Method 8015M/D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0. Analytical results indicated that concentrations of GRO+DRO and TPH exceeded



San Juan 29-5 Unit 24

the applicable NMOCD Closure Criteria at depths up to 12 feet bgs in sampling locations S-1 and S-4.

Based on the initial laboratory analytical results, Ensolum conducted additional delineation activities in December 2023 and advanced five additional potholes at the Site (PH01 through PH05). During delineation activities, Ensolum personnel logged soil lithology and field screened for the presence of volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). Soil descriptions were noted in the field book and are attached as Appendix C. Photographs taken during delineation activities are also provided in Appendix A.

During the December 2023 sampling activities, two soil samples were collected from each pothole in order to delineate the vertical impacts at the Site: one at the depth interval indicating the greatest TPH concentration based on PID field screening results and a second soil sample collected at the terminus of each pothole. Soil samples were collected 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. GRO+DRO and TPH concentrations exceeding the NMOCD Closure Criteria were encountered in one soil sample collected at a depth of 11 to 12 feet bgs from pothole PH01. BTEX, TPH, and/or chloride were either not detected above laboratory reporting limits or were not detected above the applicable Closure Criteria in any other analyzed samples. A summary of analytical results are presented on Figure 4 and summarized in Table 1. Complete laboratory reports are attached in Appendix D.

REMEDIATION WORK PLAN

Based on the soil sampling results described above, it is estimated impacted soil is present at the Site between the ground surface to a depth of approximately 15 feet bgs. Analytical results also indicate impacted soil is likely limited to areas within and immediately surrounding the secondary containment berm with an approximate areal extent of 900 square feet. Based on these estimates, approximately 500 cubic yards of impacted soil are present at the Site.

Hilcorp proposes to excavate impacted soil at the Site to achieve NMOCD Closure Criteria. Soil will be excavated and transported off-Site for disposal at the Envirotech Landfarm located in San Juan County, New Mexico. Following removal of the impacted soil, 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 BTEX or chloride, Hilcorp is requesting that soil samples only be analyzed for TPH following EPA Method 8015M/D during confirmation sampling.

Hilcorp will complete the excavation and soil sampling activities within 90 days of the date of approval of this Work Plan by the NMOCD. A *Closure Request* will be submitted within 30 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**

Stuart Hyde, PG Senior Geologist (970) 903-1607

shyde@ensolum.com

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

Attachments:

Figure 1: Site Receptor Map

Figure 2: Field Verified Site Receptors

Figure 3: Photograph Locations

Figure 4: Delineation Soil Sample Results

Table 1: Delineation Soil Sample Analytical Results

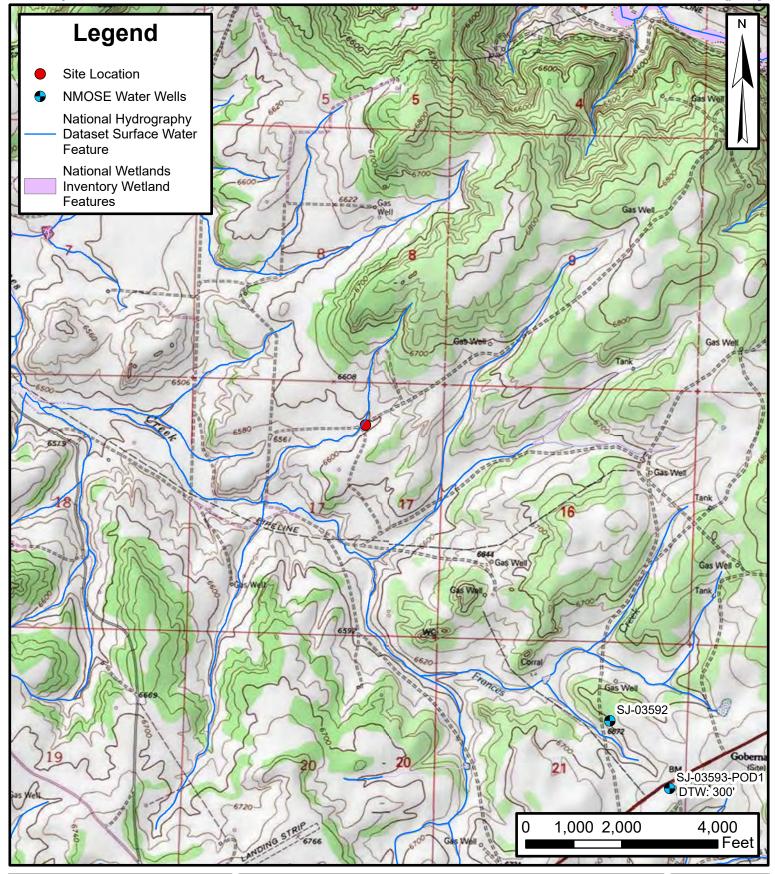
Appendix A: Photographic Log

Appendix B: NMOSE Point of Diversion Summary

Appendix C: Field Notes

Appendix D: Laboratory Analytical Reports



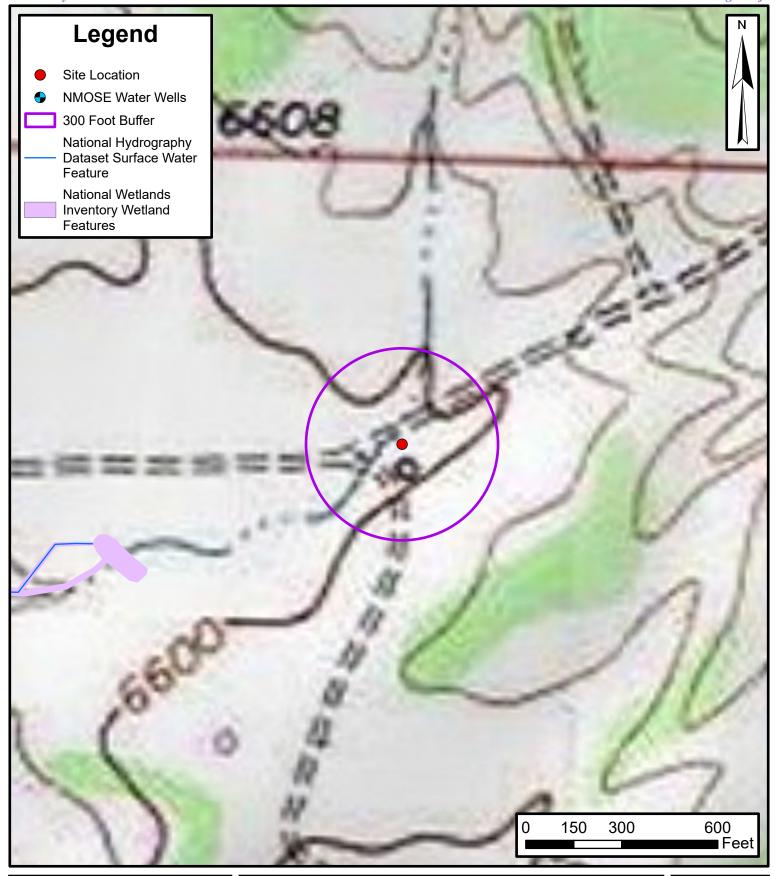




Site Receptor Map

San Juan 29-5 Unit 24 Hilcorp Energy Company

36.730450, -107.376274 Rio Arriba County, New Mexico

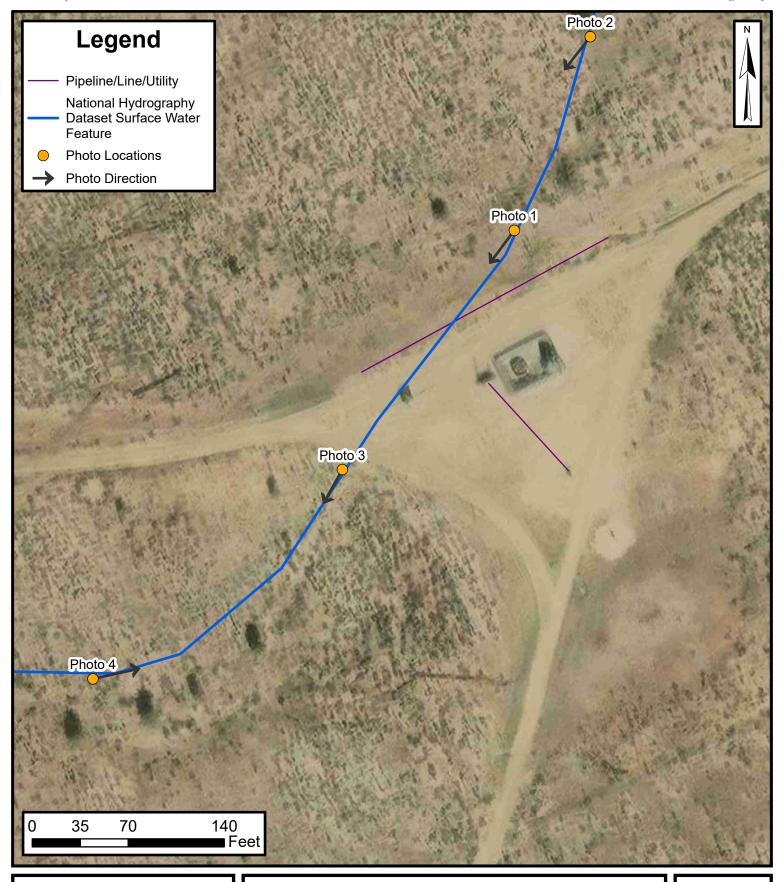




Field Verified Site Receptors

San Juan 29-5 Unit 24 Hilcorp Energy Company

36.730450, -107.376274 Rio Arriba County, New Mexico

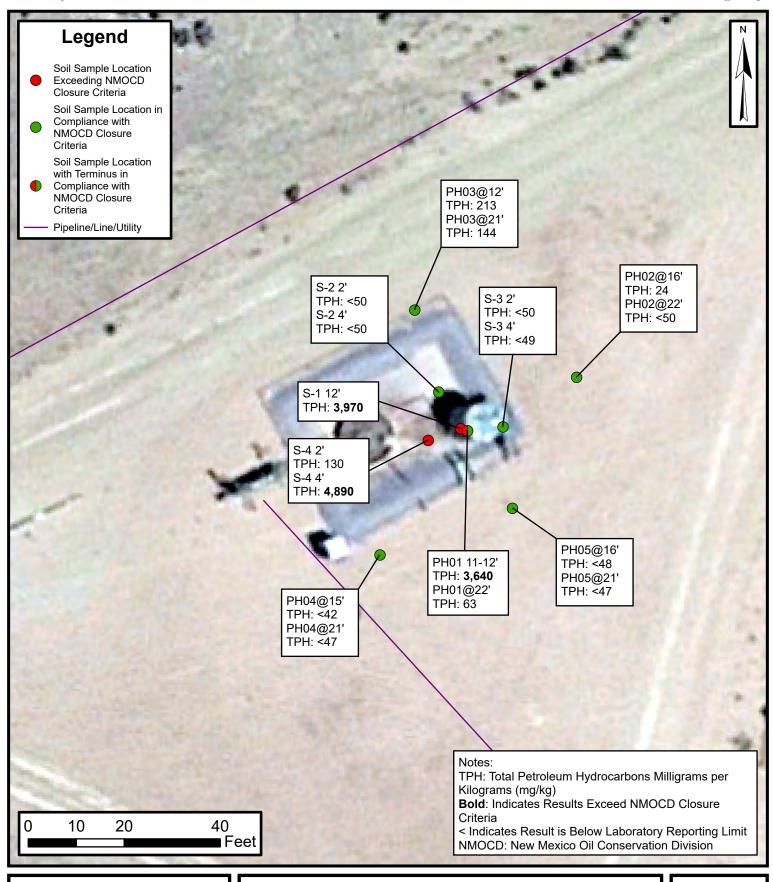




Photograph Locations

San Juan 29-5 Unit 24 Hilcorp Energy Company

36.730450, -107.376274 Rio Arriba County, New Mexico





Delineation Soil Sample Results

San Juan 29-5 Unit 24 Hilcorp Energy Company

36.730450, -107.376274 Rio Arriba County, New Mexico



TABLES



TABLE 1

DELINEATION SOIL SAMPLE ANALYTICAL RESULTS

San Juan 29-5 Unit 24 Hilcorp Energy Company Rio Arriba County, New Mexico

Kio Airiba County, New Mexico													
Sample ID	Date	Depth (feet)	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)	TPH GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure	Criteria for Soils Release	Impacted by a	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
S-1 12'	10/25/2023	12	<0.024	<0.048	0.53	20	20.53	370	3,600	<490	3,970	3,970	<60
S-2 2'	11/1/2023	2	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.9	<50	<9.9	<50	<60
S-2 4'	11/1/2023	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<10	<50	<10	<50	<59
S-3 2'	11/1/2023	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<9.9	<50	<60
S-3 4'	11/1/2023	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<49	<9.9	<49	<60
S-4 2'	11/1/2023	2	<0.024	<0.048	<0.048	< 0.095	< 0.095	<4.8	130	<49	130	130	73
S-4 4'	11/1/2023	4	<0.12	<0.25	1.1	28	29.1	790	4,100	<930	4,890	4,890	68
PH01 11-12	12/11/2023	11-12	<0.11	<0.23	0.73	16	16.73	840	2,800	<480	3,640	3,640	<61
PH01@22	12/20/2023	22	<0.023	<0.046	<0.046	<0.093	< 0.093	6.8	56	<46	63	63	<60
PH02@16	12/20/2023	16	<0.023	<0.046	<0.046	< 0.093	< 0.093	<4.6	24	<48	24	24	<60
PH02@22	12/20/2023	22	<0.024	<0.048	<0.048	<0.095	< 0.095	<4.8	<10	<50	<10	<50	<60
PH03@12	12/20/2023	12	<0.025	<0.050	<0.050	<0.099	<0.099	23	190	<47	213	213	<60
PH03@21	12/20/2023	21	<0.024	<0.047	<0.047	<0.094	<0.094	14	130	<50	144	144	<60
PH04@15	12/20/2023	15	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.4	<42	<8.4	<42	<60
PH04@21	12/20/2023	21	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.4	<47	<9.4	<47	<60
PH05@16	12/20/2023	16	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<9.7	<48	<60
PH05@21	12/20/2023	21	< 0.024	< 0.047	< 0.047	< 0.095	< 0.095	<4.7	<9.4	<47	<9.4	<47	<61

Notes:

bgs: below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

': feet

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release



APPENDIX A

Photographic Log

E ENSOLUM

Photographic Log

Hilcorp Energy Company San Juan 29-5 Unit 24 Rio Arriba County, New Mexico



Photograph: 1

Description: USGS "Blue line" north of pad

View: Southwest



Date: 1/3/2024

Photograph: 2

Date: 1/3/2024

Description: USGS "Blue line" north of pad

View: Southwest



Photograph: 3 Date: 1/3/2024

Description: USGS "Blue line" southwest of pad

View: Southwest



Photograph: 4 Date: 1/3/2024

Description: USGS "Blue line" southwest of pad

View: Northeast

E ENSOLUM

Photographic Log

Hilcorp Energy Company San Juan 29-5 Unit 24 Rio Arriba County, New Mexico



Photograph: 5
Description: Pothole

Description: Pothole PH01 View: North



Photograph: 6
Description: Pothole PH02

View: North-northwest



Photograph: 7 Description: Pothole PH04 View: West Date: 12/20/2023

Date: 12/20/2023

Photograph: 8
Description: Pothole PH05
View: North



Date: 12/20/2023

Date: 12/20/2023



APPENDIX B

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

 \mathbf{X}

SJ 03593 POD1

21 29N 05E

289638 4065294

Driller Company: WESTERN WATER WELLS

717 **Driller Name:** HOOD, TERRY (LD)

Drill Start Date: 04/12/2009

04/16/2009

Drill Finish Date:

04/14/2009

Plug Date:

Shallow

Log File Date:

Driller License:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size:

4.50

Depth Well:

455 feet

Depth Water: 300 feet

Water Bearing Stratifications: **Bottom Description** Top

300

Sandstone/Gravel/Conglomerate

395

Sandstone/Gravel/Conglomerate

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

1/15/24 10:28 AM

POINT OF DIVERSION SUMMARY



APPENDIX C

Field Notes

Page 18 of 74 Received by OCD: 2/13/2024 4:08:38 PM 44 55 29-5 # 24 Date 12/11/23 Project / Client Hilas QH, Truck/tools, PID, hand Augu, Sample Kil 13:15 - RIT on Site to Simple e ~ 12' From pot hole (w/hand onser) + attempt to hand anser past 41 where Brandon was setting refusal Hand anger new " 5-4" = HA 01 0-2' - mostly silty clay w/ some sand 2-4 - Silty day mure day w/ depth 4-6 - some sand visible, oristly medium plasticity clay und some sall + some fine-only Soud visitle Hong woo e 6' = 965 e 7' = 925 -No refusal encountered, shopped @ 7 605 PH 11-12 = 254 Time: 14:05 - reddish Sil-compact silt + fine 5/t oder, no steering 14:30 R/ off site Released to Imaging: 2/20/2024 10:42:48 AM

Received by OCD: 2/13/2024 4:08/38 PM 5 Un 24 Date 12-20 Page 19 of 74 project / Client Hulcarp 2m, PID, sample kit 905 ogsite for pathoe Colhatin -) 5 A signed, tail gate meeting Boran + Ronaly hum Kaysibre O. Hel Sorne onsite wy Hitachi 250LC examenter - PID albertal of 100 mm isobetylene - Start of widening prevar pothole alunder whee AST was restimated depth before was ~1) Pest -dus down to ~17' -1,100 pm. PID reading PHOLE 17 - red/from sit ydey -> 1,100 pm PHOI@22 - rel/som solt of cley > 600 pm PHOZE5 - bown for sand/silt ->9.8 pm PHODE 10- - Soun for surel/sult -> 10.1 ppm PHOZe 13- ral/born silt w/clay -4.6 pm PHOZel6 -rel/som s. It / clay - 465 pm PHOZEIA - red bom silt of clay → 13.5 pm PHO2 @ 22-ral/born silt of clay > 4.8 pm PMO3 e6 -born knowl /olt > 2.7 pm PHOBe9 - boun the sand/s. H + 2.3pm PHOBeld - red boun sitt welry -910 ppm PHOB @16 - red - Som silt willy >451 pm PHOBEZI-red born s. H yelf ~ 5/6 pm Released to Imaging: 2/20/2024 10:42:48 AM

Received by OCD: 2/13/2024 4:08:38 PM Page 20 of 74 Location San Julin 29-5 Un 24 Date 12-20 > continued PID readm PHO4e6 - gray for and 4/51H 2.5 pm PHOHEA - Fall-brown sitt -/clay 2.7 pm PHOHE12 - red-born sittydy 15.4 pm PHO4 @15 - red-bonn rit m/ day 395 ppm PHOHe 21-ral-boun silting clay PHOSe 6 - brown to sand/sit 8.7 pm PHOSe 9' - red from sitydy 4.Spm PHOS @12' - red-bram silt of clay 1.5pm PHOSe16-red-born silt if de 17.0 pm PHOS @20- rod-brown stycly 2.8 PHOS



APPENDIX D

Laboratory Analytical Reports



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

November 09, 2023

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

FAX:

RE: SJ 29 5 Unit 24 OrderNo.: 2310C99

Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 10/27/2023 for the analyses presented in the following report.

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

Please 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,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2310C99

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-1 12'

 Project:
 SJ 29 5 Unit 24
 Collection Date: 10/25/2023 12:00:00 PM

 Lab ID:
 2310C99-001
 Matrix: SOIL
 Received Date: 10/27/2023 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: PRD
Diesel Range Organics (DRO)	3600	97		mg/Kg	10	11/2/2023 10:03:18 AM
Motor Oil Range Organics (MRO)	ND	490	D	mg/Kg	10	11/2/2023 10:03:18 AM
Surr: DNOP	0	69-147	S	%Rec	10	11/2/2023 10:03:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	370	4.8		mg/Kg	1	11/3/2023 12:03:58 AM
Surr: BFB	1950	15-244	S	%Rec	1	11/3/2023 12:03:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/3/2023 12:03:58 AM
Toluene	ND	0.048		mg/Kg	1	11/3/2023 12:03:58 AM
Ethylbenzene	0.53	0.048		mg/Kg	1	11/3/2023 12:03:58 AM
Xylenes, Total	20	0.48		mg/Kg	5	11/3/2023 9:16:18 AM
Surr: 4-Bromofluorobenzene	290	39.1-146	S	%Rec	1	11/3/2023 12:03:58 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/1/2023 7:09:18 PM

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

Qualifiers:

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

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

2310C99 09-Nov-23

WO#:

Client: HILCORP ENERGY **Project:** SJ 29 5 Unit 24

Sample ID: MB-78503 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 78503 RunNo: 100902

Prep Date: 11/1/2023 Analysis Date: 11/1/2023 SeqNo: 3702714 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-78503 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 78503 RunNo: 100902

Prep Date: 11/1/2023 Analysis Date: 11/1/2023 SeqNo: 3702715 Units: mg/Kg

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

Chloride 15.00 90.7 110

Qualifiers:

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

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

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2310C99 09-Nov-23

WO#:

Client: HILCORP ENERGY **Project:** SJ 29 5 Unit 24

Sample ID: LCS-78476 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 78476 RunNo: 100868 Units: mg/Kg Prep Date: 10/31/2023 Analysis Date: 11/1/2023 SeqNo: 3701935 PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Diesel Range Organics (DRO) 48 10 50.00 n 96.8 61.9 130 Surr: DNOP 6.0 5.000 120 69 147

Sample ID: MB-78476 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 78476 **PBS** RunNo: 100868 Prep Date: 10/31/2023 Analysis Date: 11/1/2023 SeqNo: 3701938 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

119

69

147

10.00

Qualifiers:

Surr: DNOP

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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

2310C99 09-Nov-23

WO#:

Client: HILCORP ENERGY **Project:** SJ 29 5 Unit 24

Sample ID: Ics-78470 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 78470 RunNo: 100917 Prep Date: 10/31/2023 Analysis Date: 11/2/2023 SeqNo: 3703685 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 22 5.0 25.00 n 88.6 70 130 Surr: BFB 1900 1000 195 15 244

Sample ID: mb-78470 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: 78470 **PBS** RunNo: 100917 Prep Date: 10/31/2023 Analysis Date: 11/2/2023 SeqNo: 3703686 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

920

1000

91.8

15

244

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310C99** *09-Nov-23*

Client: HILCORP ENERGY
Project: SJ 29 5 Unit 24

Sample ID: LCS-78470	•	Гуре: LC			TestCode: EPA Method 8021B: Volatiles RunNo: 100917							
Client ID: LCSS	Batch	h ID: 78 4	170	۲	RunNo: 10	00917						
Prep Date: 10/31/2023	Analysis D	Date: 11	/2/2023	8	SeqNo: 37	703716	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.84	0.025	1.000	0	83.7	70	130					
Toluene	0.88	0.050	1.000	0	87.8	70	130					
Ethylbenzene	0.89	0.050	1.000	0	88.7	70	130					
Xylenes, Total	2.7	0.10	3.000	0	89.6	70	130					
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146					

Sample ID: mb-78470	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 78 4	170	F	RunNo: 1 (00917				
Prep Date: 10/31/2023	Analysis D	ate: 11	/2/2023	SeqNo: 3703717 U			Units: mg/K			
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	0.97		1.000		97.3	39.1	146			

Sample ID: 2310c99-001ams	Samp	Type: MS	3	TestCode: EPA Method 8021B: Volatiles							
Client ID: S-1 12'	Bato	h ID: 78 4	470	F	RunNo: 10	00917					
Prep Date: 10/31/2023	Analysis I	Date: 11	/3/2023	(SeqNo: 3703719 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.74	0.024	0.9569	0	76.9	70	130				
Toluene	0.80	0.048	0.9569	0	84.1	70	130				
Ethylbenzene	1.4	0.048	0.9569	0.5252	88.1	70	130				
Xylenes, Total	22	0.096	2.871	19.52	83.9	70	130			E	
Surr: 4-Bromofluorobenzene	2.8		0.9569		288	39.1	146			S	

Sample ID: 2310c99-001amsd	e ID: 2310c99-001amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: S-1 12'	Batch	n ID: 78 4	170	F	RunNo: 10	00917				
Prep Date: 10/31/2023	Analysis D)ate: 11	/3/2023	SeqNo: 3703720			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.024	0.9569	0	76.2	70	130	0.901	20	
Toluene	0.80	0.048	0.9569	0	83.5	70	130	0.656	20	
Ethylbenzene	1.4	0.048	0.9569	0.5252	87.5	70	130	0.407	20	
Xylenes, Total	22	0.096	2.871	19.52	94.7	70	130	1.41	20	Е
Surr: 4-Bromofluorobenzene	2.8		0.9569		290	39.1	146	0	0	S

Qualifiers:

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

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 2/20/2024 10:42:48 AM

Client Name:	HILCORP ENER	GY Wor	k Order Num	ber: 2310C99		RcptNo: 1	
Received By:	: Cheyenne Caso	on 10/27/	2023 7:30:00) AM	Chenl		
Completed By	,		2023 9:51:12		Chenl		
Reviewed By:	•				Gene		
Chain of C	<u>ustody</u>						
1. Is Chain of	f Custody complete?			Yes 🗌	No 🗹	Not Present	
2. How was t	he sample delivered?			Courier			
<u>Log In</u> 3. Was an att	tempt made to cool th	e samples?		Yes 🗹	No 🗌	na 🗆	
			. t- C 0°C	v [a	No 🗌	na 🗆	
	amples received at a t		, to 6.0°C	Yes 🔽	_	NA L	
5. Sample(s)	in proper container(s)	?		Yes 🗹	No 🗌		
6. Sufficient s	ample volume for indi	cated test(s)?		Yes 🗹	No 🗌		
7. Are sample	es (except VOA and O	NG) properly preser	ved?	Yes 🗹	No 🗌		
8. Was prese	rvative added to bottle	es?		Yes 🗌	No 🗹	NA 🗆	
9. Received a	t least 1 vial with head	dspace <1/4" for AQ	VOA?	Yes 🗌	No 🗆	NA 🗹	
10. Were any	sample containers rec	eived broken?		Yes	No 🗹	# of preserved	
	rwork match bottle lab			Yes 🗹	No 🗆	bottles checked for pH: (<2 or >12 unles	ss noted)
2. Are matrice	es correctly identified	on Chain of Custody	?	Yes 🗹	No 🗌	Adjusted?	
	hat analyses were red			Yes 🗹	No 📙	15cm	Int
	olding times able to be y customer for authori			Yes 🗹	No 🗀	Checked by:	100
Special Han	ndling (if applica	ble)					
15. Was client	notified of all discrep	ancies with this orde	r?	Yes 🗌	No 🗌	NA 🗹	
Pers	on Notified:		Date				
	Vhom:		Via:	eMail	Phone Fax	☐ In Person	
8	arding:						
3		ient address or phon	e number list	ed on COC - CM	IC 10/27/23		
16. Additional	I remarks:						
17. Cooler In		une la un		المدا	0' 17		
Cooler 1	No Temp °C Co	ndition Seal Intac	t Seal No Morty	Seal Date	Signed By		
2	4.2 Good		Morty				

C	hain	of-Cu	istody Record	Turn-Around	Time:		HALL ENVIRONMENTAL														
Client:	Hilc			Standard	1		-		=											OR	
	ЩС	DYP		Project Name	e:											tal.co		=			
Mailing	Address			(T)	9-5	Unit 24		490	01 H							e, N		109			
				Project #:	- /					5-34						-345-					
Phone	#:			1			13.71		5			А	naly	/sis	Req	uest					
		randa	n. Sinclair Philorp	Project Mana	ager:																
QA/QC	Package:		.com				PCB's OSIMS OSIMS														
□ Star	ndard		☐ Level 4 (Full Validation)	Kate	Kaufn	nan	FMB's (802 / DRO / MF (082 PCB's (082 PCB's (082 PCB's (082 PCB's (082 PCB's (083 PCB's (084 PCB's														
Accred	itation:	□ Az Co	ompliance	Sampler: B		Sinclair	BTEX MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAH's by 8310 or 8270SIMS RCRA 8 Metals CI)F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) Total Coliform (Present/Absent)														
□ NEL		☐ Other	r	On Ice:	y Yes	□ No Marke	GRC GRC GRC (50 M 50														
) (Type) _.	<u> </u>	T	Cooler Temr	C C.G.	-6,2=2.4 4-0,2=4.2(°C)	RTEX MTBE / 1 TPH:8015D(GRO / 1 8081 Pesticides/8 EDB (Method 504 PAHs by 8310 or 8 RCRA 8 Metals CIDT, Br. NO., A 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Pri														
				Cooler Terrip	(including Cr): 4	9-0.2:1.0(3)	1	301	Pes	Me	by	8 4	ďΣ	\(\)	(Se	8			-		
				Container	Preservative	HEAL No.		7H:8	381	8	AHs	CR	发	260	270	otal					
Date	Time	Matrix	Sample Name	Type and #	Туре	2310099	199/	F	8	Ш	<u>a`</u>	R	(4)	80	66	Ľ	1		_		
10-25	1200	soil	5-1 12	402 jar	Cpol	001	V	$\sqrt{}$			_		V		<u> </u>			_	-	\dashv	_
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Date:	Time:	Relinquis	hed by:	Received by:	/Via:	Date Time	Rei	mark	s:	·							*****				
10/20/2	1315	1 yr	Sil	Vim	m	10/24/20 1315															
Date:	Time:	Relinquis	hed by:	Received by:	Via:	Date Time															
10/24/2	1830	No	Wall to	Time C	com lol	21123 0730								a 11			_				



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

November 15, 2023

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

FAX:

RE: SJ 29 5 Unit 24 OrderNo.: 2311089

Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 11/2/2023 for the analyses presented in the following report.

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

Please 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,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-2 2'

 Project:
 SJ 29 5 Unit 24
 Collection Date: 11/1/2023 11:30:00 AM

 Lab ID:
 2311089-001
 Matrix: SOIL
 Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/8/2023 5:32:41 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/8/2023 5:32:41 PM
Surr: DNOP	104	69-147	%Rec	1	11/8/2023 5:32:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/10/2023 4:05:00 PM
Surr: BFB	102	15-244	%Rec	1	11/10/2023 4:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	11/10/2023 4:05:00 PM
Toluene	ND	0.048	mg/Kg	1	11/10/2023 4:05:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/10/2023 4:05:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/10/2023 4:05:00 PM
Surr: 4-Bromofluorobenzene	97.5	39.1-146	%Rec	1	11/10/2023 4:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	11/8/2023 7:39:15 PM

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

Qualifiers:

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

enorting Limit Page 1 of 10

Date Reported: 11/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-2 4'

 Project:
 SJ 29 5 Unit 24
 Collection Date: 11/1/2023 12:00:00 PM

 Lab ID:
 2311089-002
 Matrix: SOIL
 Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/8/2023 5:43:14 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/8/2023 5:43:14 PM
Surr: DNOP	105	69-147	%Rec	1	11/8/2023 5:43:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2023 4:48:00 PM
Surr: BFB	103	15-244	%Rec	1	11/10/2023 4:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	11/10/2023 4:48:00 PM
Toluene	ND	0.049	mg/Kg	1	11/10/2023 4:48:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2023 4:48:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	11/10/2023 4:48:00 PM
Surr: 4-Bromofluorobenzene	97.0	39.1-146	%Rec	1	11/10/2023 4:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	59	mg/Kg	20	11/8/2023 7:51:40 PM

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

Qualifiers:

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

Page 2 of 10

Date Reported: 11/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-3 2'

Collection Date: 11/1/2023 12:30:00 PM **Project:** SJ 29 5 Unit 24 2311089-003 Lab ID: Matrix: SOIL **Received Date:** 11/2/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/8/2023 5:53:50 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/8/2023 5:53:50 PM
Surr: DNOP	103	69-147	%Rec	1	11/8/2023 5:53:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/10/2023 5:10:00 PM
Surr: BFB	103	15-244	%Rec	1	11/10/2023 5:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	11/10/2023 5:10:00 PM
Toluene	ND	0.048	mg/Kg	1	11/10/2023 5:10:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/10/2023 5:10:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	11/10/2023 5:10:00 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146	%Rec	1	11/10/2023 5:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	11/8/2023 8:04:04 PM

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

Qualifiers:

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

Reporting Limit

Page 3 of 10

Date Reported: 11/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-3 4'

 Project:
 SJ 29 5 Unit 24
 Collection Date: 11/1/2023 1:00:00 PM

 Lab ID:
 2311089-004
 Matrix: SOIL
 Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/8/2023 6:04:26 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/8/2023 6:04:26 PM
Surr: DNOP	104	69-147	%Rec	1	11/8/2023 6:04:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/10/2023 5:32:00 PM
Surr: BFB	98.4	15-244	%Rec	1	11/10/2023 5:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	11/10/2023 5:32:00 PM
Toluene	ND	0.048	mg/Kg	1	11/10/2023 5:32:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/10/2023 5:32:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	11/10/2023 5:32:00 PM
Surr: 4-Bromofluorobenzene	93.6	39.1-146	%Rec	1	11/10/2023 5:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	11/8/2023 8:16:29 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 10

Date Reported: 11/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-4 2'

 Project:
 SJ 29 5 Unit 24
 Collection Date: 11/1/2023 1:30:00 PM

 Lab ID:
 2311089-005
 Matrix: SOIL
 Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	130	9.9	mg/Kg	1	11/8/2023 6:15:04 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/8/2023 6:15:04 PM
Surr: DNOP	99.1	69-147	%Rec	1	11/8/2023 6:15:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/10/2023 5:53:00 PM
Surr: BFB	132	15-244	%Rec	1	11/10/2023 5:53:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	11/10/2023 5:53:00 PM
Toluene	ND	0.048	mg/Kg	1	11/10/2023 5:53:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/10/2023 5:53:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/10/2023 5:53:00 PM
Surr: 4-Bromofluorobenzene	100	39.1-146	%Rec	1	11/10/2023 5:53:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	73	60	mg/Kg	20	11/8/2023 8:28:54 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

orting Limit Page 5 of 10

Analytical Report Lab Order 2311089

Date Reported: 11/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-4 4'

 Project:
 SJ 29 5 Unit 24
 Collection Date: 11/1/2023 2:00:00 PM

 Lab ID:
 2311089-006
 Matrix: SOIL
 Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	4100	190		mg/Kg	20	11/9/2023 1:55:46 PM
Motor Oil Range Organics (MRO)	ND	930	D	mg/Kg	20	11/9/2023 1:55:46 PM
Surr: DNOP	0	69-147	S	%Rec	20	11/9/2023 1:55:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	790	25		mg/Kg	5	11/10/2023 6:15:00 PM
Surr: BFB	309	15-244	S	%Rec	5	11/10/2023 6:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	11/10/2023 6:15:00 PM
Toluene	ND	0.25		mg/Kg	5	11/10/2023 6:15:00 PM
Ethylbenzene	1.1	0.25		mg/Kg	5	11/10/2023 6:15:00 PM
Xylenes, Total	28	0.49		mg/Kg	5	11/10/2023 6:15:00 PM
Surr: 4-Bromofluorobenzene	137	39.1-146		%Rec	5	11/10/2023 6:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	68	60		mg/Kg	20	11/8/2023 8:41:18 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311089 15-Nov-23

Client: HILCORP ENERGY **Project:** SJ 29 5 Unit 24

Sample ID: MB-78651 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 78651 RunNo: 101036

Prep Date: 11/8/2023 Analysis Date: 11/8/2023 SeqNo: 3710197 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-78651 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 78651 RunNo: 101036

Prep Date: 11/8/2023 Analysis Date: 11/8/2023 SeqNo: 3710198 Units: mg/Kg

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

Chloride 15 15.00 97.0 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

2311089 15-Nov-23

WO#:

Client: HILCORP ENERGY **Project:** SJ 29 5 Unit 24

Sample ID: LCS-78618 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 78618 RunNo: 101067 Units: mg/Kg Prep Date: 11/7/2023 Analysis Date: 11/8/2023 SeqNo: 3710706 PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Diesel Range Organics (DRO) 52 10 50.00 n 104 61.9 130 Surr: DNOP 6.3 5.000 126 69 147

Sample ID: MB-78618 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 78618 **PBS** RunNo: 101067 Prep Date: 11/7/2023 Analysis Date: 11/8/2023 SeqNo: 3710708 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 9.8 10.00 97.8 69 147

Qualifiers:

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

Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

2311089 15-Nov-23

Client: HILCORP ENERGY **Project:** SJ 29 5 Unit 24

Sample ID: Ics-78602 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 78602 RunNo: 101095 Prep Date: 11/6/2023 Analysis Date: 11/10/2023 SeqNo: 3713006 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 22 5.0 25.00 n 87.3 70 130 Surr: BFB 2200 1000 218 15 244

Sample ID: mb-78602 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 78602 RunNo: 101095 Prep Date: Analysis Date: 11/10/2023 SeqNo: 3713007 11/6/2023 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

1100

1000

109

15

244

Qualifiers:

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

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311089**

15-Nov-23

Client: HILCORP ENERGY
Project: SJ 29 5 Unit 24

Sample ID: Ics-78602	SampType: LCS TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batcl	h ID: 786	602	F	RunNo: 10	01095						
Prep Date: 11/6/2023	Analysis [Date: 11	/10/2023	5	SeqNo: 37	713013	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.025	1.000	0	103	70	130					
Toluene	1.0	0.050	1.000	0	102	70	130					
Ethylbenzene	1.0	0.050	1.000	0	104	70	130					
Xylenes, Total	3.1	0.10	3.000	0	104	70	130					
Surr: 4-Bromofluorobenzene	0.96		1.000									

Sample ID: mb-78602	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	n ID: 78 6	602	F	RunNo: 10	01095					
Prep Date: 11/6/2023	Analysis D	Date: 11	/10/2023	5	SeqNo: 37	713014	Units: mg/K	g			
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	1.0		1.000		101	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 2/20/2024 10:42:48 AM

		weosne. www.n					
Client Name:	HILCORP ENERGY	Work Order Numbe	r: 23110	89		RcptNo: 1	
Received By:	Tracy Casarrubias	11/2/2023 6:45:00 AN	A.				
Completed By:	Tracy Casarrubias	11/2/2023 8:46:28 AM	A				
Reviewed By:	7411/2/23						
Chain of Cus	stody						
1. Is Chain of C	ustody complete?		Yes [] N	o 🔽	Not Present	
2. How was the	sample delivered?		Courie	Ţ			
Log In			_				
3. Was an atten	npt made to cool the sam	ples?	Yes 🛚	<u>∠</u> N∈	o 🗌	NA 🗌	
4. Were all sam	ples received at a temper	ature of >0° C to 6.0°C	Yes 🛚	Z) No	. 🗆	na 🗆	
5. Sample(s) in	proper container(s)?		Yes 🛭	Z No	. 🗌		
6. Sufficient san	nple volume for indicated	test(s)?	Yes 🛚	Z No			
7. Are samples	(except VOA and ONG) p	roperly preserved?	Yes 🛚	Z No			
8. Was preserva	ative added to bottles?		Yes [] No	V	NA 🗌	
9. Received at le	east 1 vial with headspace	e <1/4" for AQ VOA?	Yes [_		NA 🗹	
10. Were any sa	mple containers received	broken?	Yes [o 🗹	# of preserved	
	ork match bottle labels? ancies on chain of custod	w)	Yes 🛭	Ž No	ь П	for pH:	2 unless noted)
	correctly identified on Cha		Yes 🛚	<u> N</u>		Adjusted?	
	at analyses were requeste		Yes 🛚	Z No		1000	a uhha
	ing times able to be met?)	Yes 🛚	Z No	. 🗆	Checked by:500	1 11/4/33
	ling (if applicable)	,				,	
	otified of all discrepancies	with this order?	Yes [□ N	。	na 🗹	
Persor	Notified:	Date:					
By Wh	om:	Via:	eMail	Phone [] Fax	☐ In Person	
Regard	promote and a second	ress and phone number are n	oissing or	COC TMC	11/2/22		
16. Additional re	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ress and phone number are n	inssing or	1 COQ - TIVIC	11/2/25		
17. Cooler Info							
Cooler N	The second secon	Seal Intact Seal No	Seal Dat	e Signe	д Ву		
1	1.6 Good	Yes Yogi				PALED BETWEEN	

			stody Record	Turn-Arou	and Time:		HALL ENVIRONMENTAL														
Client:	Hilas	~~		t Standa	11	h	_		Ħ.										TC		
	11160	P		Project Na												tal.c				<i>,</i> , ,	•
Mailing	Address	:		CT	20-5 1	1 1 2 4		40	∩1 LI								он М 87	′10a			
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□ Stan	-		☐ Level 4 (Full Validation)	Kato	- Kayfn		BTEX MTBE/ TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's		8270SIMS		CI)F, Br, NO3, NO2, PO4, SO4			Total Coliform (Present/Absent)					
	tation:	□ Az Co	mpliance	Sampler:	Branden	Sindair	皇	DR	382	=	3270		5			seu	Jil			1791	
□ NEL		□ Other	-	On Ice:	□XYes	□ No yagi	1	30/)8/s	EDB (Method 504.1)	or 8	S	18		8	g					
	(Type)			# of Coole			世	(GF	cide	B	310	etal	9		<u>\</u>	E					
				Cooler Te	mp(including CF): 1.1	6-0=1.6 (°C)	≥	15E	esti	let	PAHs by 8310 or	RCRA 8 Metals	Ä,	8260 (VOA)	8270 (Semi-VOA)	¥	11 1				
				Container	Preservative	HEAL No.	(合	H:80	31 P	8	Hs	₽.	1	000	👸						
Date	Time	Matrix	Sample Name	Type and		2311089	(E)	I I	808		PA	8	ਹ	826	82	P			-		
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Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 21, 2023

Kate Kaufman
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: SJ 29 5 24 OrderNo.: 2312620

Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 12/12/2023 for the analyses presented in the following report.

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

Please 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,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2312620

Date Reported: 12/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: PH 11-12

 Project:
 SJ 29 5 24
 Collection Date: 12/11/2023 2:05:00 PM

 Lab ID:
 2312620-001
 Matrix: SOIL
 Received Date: 12/12/2023 7:25:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	2800	96		mg/Kg	10	12/12/2023 3:23:59 PM
Motor Oil Range Organics (MRO)	ND	480	D	mg/Kg	10	12/12/2023 3:23:59 PM
Surr: DNOP	0	69-147	S	%Rec	10	12/12/2023 3:23:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	840	230		mg/Kg	50	12/12/2023 3:23:31 PM
Surr: BFB	217	15-244		%Rec	50	12/12/2023 3:23:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.11		mg/Kg	5	12/12/2023 6:10:09 PM
Toluene	ND	0.23		mg/Kg	5	12/12/2023 6:10:09 PM
Ethylbenzene	0.73	0.23		mg/Kg	5	12/12/2023 6:10:09 PM
Xylenes, Total	16	0.45		mg/Kg	5	12/12/2023 6:10:09 PM
Surr: 4-Bromofluorobenzene	130	39.1-146		%Rec	5	12/12/2023 6:10:09 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	61		mg/Kg	20	12/12/2023 10:18:49 PM

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

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

Hall Environmental Analysis Laboratory, Inc.

2312620 21-Dec-23

WO#:

Client: HILCORP ENERGY

Project: SJ 29 5 24

Sample ID: MB-79333 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 79333 RunNo: 101808

Prep Date: 12/12/2023 Analysis Date: 12/12/2023 SeqNo: 3752837 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-79333 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 79333 RunNo: 101808

Prep Date: 12/12/2023 Analysis Date: 12/12/2023 SeqNo: 3752838 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.3 90 110

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

Hall Environmental Analysis Laboratory, Inc.

2312620 21-Dec-23

WO#:

Client: HILCORP ENERGY

Project: SJ 29 5 24

Sample ID: MB-79307	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79307	RunNo: 101773	
Prep Date: 12/12/2023	Analysis Date: 12/12/2023	SeqNo: 3751175	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	10 10.00	103 69	147
Sample ID: LCS-79307	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79307	RunNo: 101773	
Prep Date: 12/12/2023	Analysis Date: 12/12/2023	SeqNo: 3751176	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	49 10 50.00	0 98.9 61.9	130
Surr: DNOP	4.7 5.000	93.8 69	147
Sample ID: MB-79325	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79325	RunNo: 101773	
Prep Date: 12/12/2023	Analysis Date: 12/12/2023	SeqNo: 3752191	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.00	99.8 69	147
Sample ID: LCS-79325	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79325	RunNo: 101773	
Prep Date: 12/12/2023	Analysis Date: 12/12/2023	SeqNo: 3752192	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.9 5.000	97.1 69	147

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

Hall Environmental Analysis Laboratory, Inc.

2312620 21-Dec-23

WO#:

Client: HILCORP ENERGY

Project: SJ 29 5 24

Froject: SJ 29 3	7 24	
Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: GS101772	RunNo: 101772
Prep Date:	Analysis Date: 12/12/2023	SeqNo: 3751172 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 92.9 70 130
Surr: BFB	2000 1000	201 15 244
Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: GS101772	RunNo: 101772
Prep Date:	Analysis Date: 12/12/2023	SeqNo: 3751231 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	104 15 244
Sample ID: Ics-79289	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 79289	RunNo: 101772
Prep Date: 12/11/2023	Analysis Date: 12/12/2023	SeqNo: 3751754 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	2000 1000	202 15 244
Sample ID: mb-79289	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 79289	RunNo: 101772
Prep Date: 12/11/2023	Analysis Date: 12/12/2023	SeqNo: 3751755 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	1000 1000	101 15 244

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

Hall Environmental Analysis Laboratory, Inc.

2312620 21-Dec-23

WO#:

Client: HILCORP ENERGY

Project: SJ 29 5 24

Sample ID: 100ng btex Ics	SampType: LCS TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batc	h ID: BS	101772	F	unNo: 10	1772					
Prep Date:	Analysis [Date: 12	/12/2023	S	SeqNo: 37	751174	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.025	1.000	0	93.1	70	130				
Toluene	0.94	0.050	1.000	0	94.3	70	130				
Ethylbenzene	0.95	0.050	1.000	0	95.4	70	130				
Xylenes, Total	2.9	0.10	3.000	0	96.7	70	130				
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146				
Sample ID: mb	Samp ⁻	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les			
Client ID: PBS	Batc	h ID: BS	101772	F	tunNo: 10	1772					
Prep Date:	Analysis [Date: 12	/12/2023	S	SeqNo: 37	751232	Units: mg/K	g			
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	1.0		1.000		103	39.1	146				
Sample ID: LCS-79289	Samp ⁻	Type: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	les			
Client ID: LCSS	Batc	h ID: 79 2	289	F	tunNo: 10	1772					
Prep Date: 12/11/2023	Analysis [Date: 12	/12/2023	S	SeqNo: 37	751806	Units: %Rec	:			
						Laurel insit	I limb Limbit	0/ 000	RPDLimit	Qual	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	IXI DEIIIII	-,	
Analyte Surr: 4-Bromofluorobenzene	Result 1.0	PQL	SPK value 1.000	SPK Ref Val	%REC 102	39.1	HighLimit 146	%RPD	I DEIIII		
<u>, </u>	1.0	PQL Type: ME	1.000		102	39.1			IXI DEIIIII		
Surr: 4-Bromofluorobenzene	1.0 Samp		1.000	Tes	102	39.1 PA Method	146		NI BEIIIII		
Surr: 4-Bromofluorobenzene Sample ID: mb-79289	1.0 Samp	Гуре: МЕ h ID: 792	1.000 BLK 289	Tes	102 tCode: EF	39.1 PA Method 01772	146	les	TX DEITH		
Surr: 4-Bromofluorobenzene Sample ID: mb-79289 Client ID: PBS	1.0 Samp	Гуре: МЕ h ID: 792	1.000 BLK 289	Tes	102 tCode: EF	39.1 PA Method 01772	146 8021B: Volati	les	RPDLimit	Qual	

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

Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

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

Sample Log-In Check List

Released to Imaging: 2/20/2024 10:42:48 AM

Albuquerque, NM 87109

			W	ebsite: www.	hallenvironment	al.com		
Client Name: I-	IILCORP EN	NERGY	Work (Order Numb	er: 2312620		RoptNo	c 1
Received By:	Juan Rojas		12/12/20	23 7:25:00	АМ	Hoursay		
Completed By:	Juan 1201	e _t (,2/12	23				
Reviewed By:	12-12		•					
	70.0							
Chain of Custo	ody							
1. Is Chain of Cus		te?			Yes	No 🗹	Not Present	
2. How was the sa	ample delive	red?			Courier			
Log In								
3. Was an attemp	t made to co	ol the sample	es?		Yes 🗸	No 🗌	NA 🗆	
					_	\Box		
4. Were all sample	es received a	at a temperat	ure of >0°C to	o 6.0°C	Yes 🗸	No 🗀	NA 🗔	
5. Sample(s) in pr	oper contain	er(s)?			Yes 🗹	No 🗆		
					FT3	\Box		
Sufficient samp					Yes 🗹	No 🗆		
7. Are samples (ex			perly preserve	d?	Yes 🔽	No ∐ No 🗹	NA 🗆	
Was preservative	e added to	bottles?			Yes 📙	NO 💌	NA L	
9. Received at lea	st 1 vial with	headspace <	1/4" for AQ V	OA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sam	ole containe	rs received br	oken?		Yes	No 🗹	# of preserved	
						No 🗆	bottles checked for pH:	
11. Does paperwork (Note discrepar					Yes 🗹	No 🗔	•	or >12 unless noted)
2. Are matrices co					Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what	analyses we	re requested	?		Yes 🗸	No 🗌		ا ما ما
14. Were all holding					Yes 🗸	No 🗌	Checked by:	10/12/12/
(If no, notify cus	stomer for au	uthorization.)				•		
Special Handli	ng (if app	<u>licable)</u>						
15. Was client not	fied of all dis	screpancies v	vith this order?		Yes 🗌	No 🗌	NA 🗹	
Person N	lotified:			Date				
By Whor	n: ʃ			Via:	☐ eMail	Phone 🗌 Fax	In Person	
Regardir							-	
Client In:	structions:		30-11					
16. Additional rem	narks:							
Client m	issing mailin	g address an	d phone numb	er on COC.	JR 12/12/23			
17. Cooler Inform		1			0.10	Cinned D.	I	
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By		
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□ Stan	dard		☐ Level 4 (Full Validation)				B's	윖	2 P		20		7.1	l		ent					
	itation:		ompliance	Sampler: 7		750A	¦₹	TPH:8015D(GRO/DRO/MRO)	8081 Pesticides/8082		or 82	Line.	Cl. F. Br, NO3, NO2, PO4, SO4		a	Total Coliform (Present/Absent)					
□ NEL		☐ Other	•	On Ice: # of Coolers:		□ No Y09?	真	GR	des	d 50	9	tals	4		8270 (Semi-VOA)) E					
	(Type)					3-620.3 (°C)	l∰	5D(stici	욅	PAHs by 8310	RCRA 8 Metals	7.	8260 (VOA)	Ë	lifor					
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Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 03, 2024

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

FAX:

RE: San Juan 29 5 Unit 24 OrderNo.: 2312C15

Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 9 sample(s) on 12/21/2023 for the analyses presented in the following report.

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

Please 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,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2312C15 Date Reported: 1/3/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH01@22

20

Project: San Juan 29 5 Unit 24 Collection Date: 12/20/2023 9:30:00 AM Lab ID: 2312C15-001 Matrix: SOIL Received Date: 12/21/2023 6:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 56 9.3 mg/Kg 1 12/28/2023 10:12:28 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 12/28/2023 10:12:28 AM Surr: DNOP 92.8 69-147 %Rec 1 12/28/2023 10:12:28 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) 6.8 12/24/2023 10:31:31 PM 4.6 mg/Kg 1 Surr: BFB 134 15-244 %Rec 1 12/24/2023 10:31:31 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 12/24/2023 10:31:31 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 12/24/2023 10:31:31 PM Ethylbenzene ND 0.046 mg/Kg 1 12/24/2023 10:31:31 PM Xylenes, Total ND 0.093 mg/Kg 12/24/2023 10:31:31 PM 1 Surr: 4-Bromofluorobenzene 95.0 39.1-146 %Rec 1 12/24/2023 10:31:31 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC mg/Kg Chloride 12/28/2023 1:57:44 PM

ND

60

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

Qualifiers:

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

Page 1 of 13

Analytical Report Lab Order 2312C15

Date Reported: 1/3/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: PH02@16

Project: San Juan 29 5 Unit 24 Collection Date: 12/20/2023 9:35:00 AM 2312C15-002 Lab ID: Matrix: SOIL Received Date: 12/21/2023 6:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	24	9.7	mg/Kg	1	12/28/2023 10:22:59 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/28/2023 10:22:59 AM
Surr: DNOP	93.9	69-147	%Rec	1	12/28/2023 10:22:59 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/24/2023 10:55:28 PM
Surr: BFB	108	15-244	%Rec	1	12/24/2023 10:55:28 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	12/24/2023 10:55:28 PM
Toluene	ND	0.046	mg/Kg	1	12/24/2023 10:55:28 PM
Ethylbenzene	ND	0.046	mg/Kg	1	12/24/2023 10:55:28 PM
Xylenes, Total	ND	0.093	mg/Kg	1	12/24/2023 10:55:28 PM
Surr: 4-Bromofluorobenzene	94.6	39.1-146	%Rec	1	12/24/2023 10:55:28 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	12/28/2023 2:12:53 PM

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

Qualifiers:

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

Reporting Limit

Page 2 of 13

Analytical Report

Lab Order **2312C15**Date Reported: **1/3/2024**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH02@22

 Project:
 San Juan 29 5 Unit 24
 Collection Date: 12/20/2023 10:00:00 AM

 Lab ID:
 2312C15-003
 Matrix: SOIL
 Received Date: 12/21/2023 6:40:00 AM

Analyses	Result RL Qual U			DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/28/2023 10:33:27 AM				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/28/2023 10:33:27 AM				
Surr: DNOP	95.6	69-147	%Rec	1	12/28/2023 10:33:27 AM				
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/24/2023 11:19:13 PM				
Surr: BFB	95.3	15-244	%Rec	1	12/24/2023 11:19:13 PM				
EPA METHOD 8021B: VOLATILES					Analyst: JJP				
Benzene	ND	0.024	mg/Kg	1	12/24/2023 11:19:13 PM				
Toluene	ND	0.048	mg/Kg	1	12/24/2023 11:19:13 PM				
Ethylbenzene	ND	0.048	mg/Kg	1	12/24/2023 11:19:13 PM				
Xylenes, Total	ND	0.095	mg/Kg	1	12/24/2023 11:19:13 PM				
Surr: 4-Bromofluorobenzene	94.4	39.1-146	%Rec	1	12/24/2023 11:19:13 PM				
EPA METHOD 300.0: ANIONS					Analyst: RBC				
Chloride	ND	60	mg/Kg	20	12/28/2023 3:59:00 PM				

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

Qualifiers:

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

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2312C15-004

San Juan 29 5 Unit 24

Project:

Lab ID:

Analytical Report

Lab Order **2312C15**Date Reported: **1/3/2024**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH03@12

Collection Date: 12/20/2023 10:30:00 AM

Received Date: 12/21/2023 6:40:00 AM

EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					· · · · · · · · · · · · · · · · · · ·
						Analyst: DGH
Diesel Range Organics (DRO)	190	9.3		mg/Kg	1	12/28/2023 10:44:02 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/28/2023 10:44:02 AM
Surr: DNOP	110	69-147		%Rec	1	12/28/2023 10:44:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	23	5.0		mg/Kg	1	12/24/2023 11:42:54 PM
Surr: BFB	248	15-244	S	%Rec	1	12/24/2023 11:42:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/24/2023 11:42:54 PM
Toluene	ND	0.050		mg/Kg	1	12/24/2023 11:42:54 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/24/2023 11:42:54 PM
Xylenes, Total	0.23	0.099		mg/Kg	1	12/24/2023 11:42:54 PM
Surr: 4-Bromofluorobenzene	99.2	39.1-146		%Rec	1	12/24/2023 11:42:54 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	12/28/2023 4:14:10 PM

Matrix: SOIL

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

Qualifiers:

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

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Analytical Report

Lab Order **2312C15**Date Reported: **1/3/2024**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH03@21

 Project:
 San Juan 29 5 Unit 24
 Collection Date: 12/20/2023 10:35:00 AM

 Lab ID:
 2312C15-005
 Matrix: SOIL
 Received Date: 12/21/2023 6:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	130	9.9	mg/Kg	1	12/28/2023 10:54:32 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/28/2023 10:54:32 AM
Surr: DNOP	94.5	69-147	%Rec	1	12/28/2023 10:54:32 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	14	4.7	mg/Kg	1	12/25/2023 12:06:29 AM
Surr: BFB	184	15-244	%Rec	1	12/25/2023 12:06:29 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/25/2023 12:06:29 AM
Toluene	ND	0.047	mg/Kg	1	12/25/2023 12:06:29 AM
Ethylbenzene	ND	0.047	mg/Kg	1	12/25/2023 12:06:29 AM
Xylenes, Total	0.16	0.094	mg/Kg	1	12/25/2023 12:06:29 AM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	12/25/2023 12:06:29 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	12/28/2023 4:29:19 PM

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

Qualifiers:

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

ple pH Not In Range Page 5 of 13

Analytical Report Lab Order 2312C15

Date Reported: 1/3/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH04@15

 Project:
 San Juan 29 5 Unit 24
 Collection Date: 12/20/2023 11:15:00 AM

 Lab ID:
 2312C15-006
 Matrix: SOIL
 Received Date: 12/21/2023 6:40:00 AM

Analyses	Result RL Qual			DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	12/28/2023 11:05:06 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	12/28/2023 11:05:06 AM
Surr: DNOP	97.2	69-147	%Rec	1	12/28/2023 11:05:06 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/25/2023 12:53:54 AM
Surr: BFB	101	15-244	%Rec	1	12/25/2023 12:53:54 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/25/2023 12:53:54 AM
Toluene	ND	0.048	mg/Kg	1	12/25/2023 12:53:54 AM
Ethylbenzene	ND	0.048	mg/Kg	1	12/25/2023 12:53:54 AM
Xylenes, Total	ND	0.097	mg/Kg	1	12/25/2023 12:53:54 AM
Surr: 4-Bromofluorobenzene	93.8	39.1-146	%Rec	1	12/25/2023 12:53:54 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	12/28/2023 4:44:29 PM

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

Qualifiers:

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

ple pH Not In Range
Orting Limit Page 6 of 13

Analytical Report

Lab Order 2312C15 Date Reported: 1/3/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH04@21

Project: San Juan 29 5 Unit 24 Collection Date: 12/20/2023 11:20:00 AM 2312C15-007 Lab ID: Matrix: SOIL Received Date: 12/21/2023 6:40:00 AM

Analyses	Result	Result RL Qual U		DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/28/2023 11:26:16 AM				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/28/2023 11:26:16 AM				
Surr: DNOP	94.8	69-147	%Rec	1	12/28/2023 11:26:16 AM				
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP				
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/25/2023 1:18:04 AM				
Surr: BFB	103	15-244	%Rec	1	12/25/2023 1:18:04 AM				
EPA METHOD 8021B: VOLATILES					Analyst: JJP				
Benzene	ND	0.023	mg/Kg	1	12/25/2023 1:18:04 AM				
Toluene	ND	0.046	mg/Kg	1	12/25/2023 1:18:04 AM				
Ethylbenzene	ND	0.046	mg/Kg	1	12/25/2023 1:18:04 AM				
Xylenes, Total	ND	0.093	mg/Kg	1	12/25/2023 1:18:04 AM				
Surr: 4-Bromofluorobenzene	92.1	39.1-146	%Rec	1	12/25/2023 1:18:04 AM				
EPA METHOD 300.0: ANIONS					Analyst: RBC				
Chloride	ND	60	mg/Kg	20	12/28/2023 4:59:39 PM				

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

Qualifiers:

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

Reporting Limit

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Analytical Report Lab Order 2312C15

Date Reported: 1/3/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: PH05@16

 Project:
 San Juan 29 5 Unit 24
 Collection Date: 12/20/2023 11:40:00 AM

 Lab ID:
 2312C15-008
 Matrix: SOIL
 Received Date: 12/21/2023 6:40:00 AM

Analyses	Result RL Qual			DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/28/2023 11:36:53 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/28/2023 11:36:53 AM
Surr: DNOP	92.6	69-147	%Rec	1	12/28/2023 11:36:53 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/25/2023 1:42:07 AM
Surr: BFB	94.6	15-244	%Rec	1	12/25/2023 1:42:07 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/25/2023 1:42:07 AM
Toluene	ND	0.048	mg/Kg	1	12/25/2023 1:42:07 AM
Ethylbenzene	ND	0.048	mg/Kg	1	12/25/2023 1:42:07 AM
Xylenes, Total	ND	0.096	mg/Kg	1	12/25/2023 1:42:07 AM
Surr: 4-Bromofluorobenzene	93.4	39.1-146	%Rec	1	12/25/2023 1:42:07 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	12/28/2023 5:14:48 PM

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

Qualifiers:

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

Page 8 of 13

Analytical Report Lab Order 2312C15

Date Reported: 1/3/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: PH05@21

 Project:
 San Juan 29 5 Unit 24
 Collection Date: 12/20/2023 11:45:00 AM

 Lab ID:
 2312C15-009
 Matrix: SOIL
 Received Date: 12/21/2023 6:40:00 AM

Analyses	Result RL Qual U		l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/28/2023 11:47:28 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/28/2023 11:47:28 AM
Surr: DNOP	90.9	69-147	%Rec	1	12/28/2023 11:47:28 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/25/2023 2:06:00 AM
Surr: BFB	94.0	15-244	%Rec	1	12/25/2023 2:06:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/25/2023 2:06:00 AM
Toluene	ND	0.047	mg/Kg	1	12/25/2023 2:06:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	12/25/2023 2:06:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	12/25/2023 2:06:00 AM
Surr: 4-Bromofluorobenzene	92.1	39.1-146	%Rec	1	12/25/2023 2:06:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	61	mg/Kg	20	12/28/2023 6:00:16 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2312C15

WO#:

03-Jan-24

Client: HILCORP ENERGY
Project: San Juan 29 5 Unit 24

Sample ID: MB-79647 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **79647** RunNo: **102121**

Prep Date: 12/28/2023 Analysis Date: 12/28/2023 SeqNo: 3771754 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-79647 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 79647 RunNo: 102121

Prep Date: 12/28/2023 Analysis Date: 12/28/2023 SeqNo: 3771755 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.0 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

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Hall Environmental Analysis Laboratory, Inc.

2312C15 03-Jan-24

WO#:

Client: HILCORP ENERGY
Project: San Juan 29 5 Unit 24

Project: San Juai	n 29 5 Unit 24	
Sample ID: LCS-79630	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79630	RunNo: 102126
Prep Date: 12/28/2023	Analysis Date: 12/28/2023	SeqNo: 3769422 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	43 10 50.00	0 0 86.4 61.9 130
Surr: DNOP	4.6 5.000	0 92.8 69 147
Sample ID: MB-79630	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79630	RunNo: 102126
Prep Date: 12/28/2023	Analysis Date: 12/28/2023	SeqNo: 3769423 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	10 10.00	0 102 69 147
Sample ID: LCS-79656	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79656	RunNo: 102126
Prep Date: 12/28/2023	Analysis Date: 12/28/2023	SeqNo: 3770400 Units: %Rec
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.4 5.000	0 108 69 147
Sample ID: MB-79656	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79656	RunNo: 102126
Prep Date: 12/28/2023	Analysis Date: 12/28/2023	SeqNo: 3770402 Units: %Rec
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.6 10.00	0 86.3 69 147

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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

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Hall Environmental Analysis Laboratory, Inc.

970

WO#: 2312C15 03-Jan-24

Client: HILCORP ENERGY **Project:** San Juan 29 5 Unit 24

Sample ID: Ics-79573 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 79573 RunNo: 102079 Prep Date: 12/22/2023 Analysis Date: 12/24/2023 SeqNo: 3767289 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 n 97.1 70 130 Surr: BFB 2000 1000 204 15 244

Sample ID: mb-79573 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: 79573 **PBS** RunNo: 102079 Prep Date: Analysis Date: 12/24/2023 12/22/2023 SeqNo: 3767290 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

97.3

15

244

1000

Qualifiers:

Surr: BFB

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

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Hall Environmental Analysis Laboratory, Inc.

2312C15 03-Jan-24

WO#:

Client: HILCORP ENERGY
Project: San Juan 29 5 Unit 24

Sample ID: LCS-79573 Client ID: LCSS	SampType: LCS TestCode: EPA Method 80 Batch ID: 79573 RunNo: 102079					8021B: Volati	les			
Prep Date: 12/22/2023	Analysis D		/24/2023				Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	70	130			
Toluene	0.90	0.050	1.000	0	89.8	70	130			
Ethylbenzene	0.91	0.050	1.000	0	90.7	70	130			
Xylenes, Total	2.7	0.10	3.000	0	91.5	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	39.1	146			

Sample ID: mb-79573	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les				
Client ID: PBS	Batcl	h ID: 79	573	F	RunNo: 10	02079						
Prep Date: 12/22/2023	Analysis [Date: 12	2/24/2023	SeqNo: 3767317			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	0.97		1.000		96.7	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 Quanitative Limit
- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Environment Testin

Eurofins Environment Testing South Central, LLC

4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

Released to Imaging: 2/20/2024 10:42:48 AM

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: HILCORP ENERGY	Work Order Numb	ber: 2312C15		RcptNo:	1
Received By: Tracy Casarrubias	12/21/2023 6:40:00	AM			
Completed By: Tracy Casarrubias	12/21/2023 7:24:30	AM			
Reviewed By: # 12.21.23					
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 sam	ples?	Yes 🗹	No 🗌	NA 📙	
4. Were all samples received at a temper	rature of >0° C to 6.0°C	Yes 🗹	No 🗌	na \square	
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) p	roperly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace	e <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received	broken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels?		Yes 🗸	No 🗆	bottles checked for pH:	
(Note discrepancies on chain of custoo		F-7	🗖	(<2 or Adjusted?	>12 unless noted)
12. Are matrices correctly identified on Cha		Yes 🗹	No L	/ tajuotou.	
13. Is it clear what analyses were requeste		Yes ✓ Yes ✓	No □ No □	Checked by:	1412/21/2
14. Were all holding times able to be met? (If no, notify customer for authorization		Yes <u>▼</u>	NO L	100000 59.	1001010
Special Handling (if applicable)		7			
15. Was client notified of all discrepancies	with this order?	Yes 🔽	No 🗆	NA VI	1/21/23
Person Notified:	Walter Date:	12/21/23			
	asarubias Via:	eMail P	hone 🗌 Fax	n Person	
	discrepancy.				
Client Instructions: Mailing add	iress phone number and Em	nail/Fax are missin	a on COC-TMC	12/21/23	
16. Additional remarks: Email 3	sent. Let c.w. ke me if we dont	now we c	Noutel W	we furward	with
17. Cooler Information					
Cooler No Temp °C Condition	n Seal Intact Seal No	Seal Date	Signed By		
1 0.3 Good	Yes Yogi	300. 200	g _		

	Chain-of-Custody Record			Turn-Around	Time: 3-8	2000					IAI		E	NI V	TE		NIN	IEI	uT.	A I	
Client:	Hilcor	p: K man (ate Kaufman 2 marshiloop.com	☐ Standard	X Rush		HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109														
	Addiese	•		Project #:																	
Phone	4.			1				Te	el. 50	5-34	5-39	11.00	1000	100000000000000000000000000000000000000	200 0 0 0 0 0	345- uest	4107	1000		1100	
email o				Project Manager:				5						0.0						T	
	Package:		☐ Level 4 (Full Validation)	Project Manager: Stuart Hyde shyde ensolum.com				O/MRC	PCB's		8270SIMS	A	PO4, SO4	n h		t/Abser	- 1-4				
□ NEL		☐ Az Co	mpliance	Sampler: Zuh Myer On Ice: Yes No yes			MIBE / TMB's (8021)	RO / DR	es/8082	504.1)	5	<u>s</u>	3, NO2,		OA)	(Preser	21				
	(Type)							TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	CI) F, Br, NO3, NO2, PO4,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2312C15	(2)	TPH:	8081	EDB	PAHs	RCR		8260	8270	Total	9	100	100		
12.20	430	sol	PHO1022	402 Jar	100	001	X	X					$\widetilde{\mathbb{X}}$					may y	g Maria	2012	
	935		PH02@16			002					a (j.)	angvi galan		eriver 3 Ladius	Y (mg)	de Cor Less me	pl over				
	(000)		PH02022		per a la mesa	003	Ш	Ш		$ \bot $	1115.17				7.98			100	CC.		
	1030		PH03@12			004		Ш			ann	1276			SON A	3.400			Pagare 10 rg	\bot	
	1035		PH03@21			065	\coprod	Ш		11 1	- 11	1170111	e i e la	o estilori	erri (2)	2000 167	Nh = N		# h		
	1115		PH04@15		Ly in I	006	11							leg (6)	ist day.	466		200	405	\bot	4
	1120		PH 04621			F00	1			_			4					_		_	\perp
	1140		PH 05016		W	00%	1	4		_	10 10			1 100			60 A 1	A17	9111 1111	_	+
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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 314072

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	314072
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2330638542
Incident Name	NAPP2330638542 SAN JUAN 29-5 UNIT 24 @ 30-039-07637
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Well	[30-039-07637] SAN JUAN 29 5 UNIT #024

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAN JUAN 29-5 UNIT 24
Date Release Discovered	10/20/2023
Surface Owner	Private

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Corrosion Production Tank Crude Oil Released: 5 BBL Recovered: 0 BBL Lost 5 BBL.	
Produced Water Released (bbls) Details	Cause: Corrosion Production Tank Produced Water Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	4.5 bbl oil & 3.11 bbl produced water release	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

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

QUESTIONS, Page 2

Action 314072

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 e, NIVI 07 303
QUESTI	ONS (continued)
Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID:
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a second content of the con	safety hazard that would result in injury
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist

Email: shyde@ensolum.com Date: 02/13/2024

District I
1625 N. French Dr., Hobbs, NM 88240
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Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 314072

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	314072
	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 an	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (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 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 500 and 1000 (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 1000 (ft.) and ½ (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information	n 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	s 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 a	area No
Soil Contamination Sampling: (Provide the highest observable va	alue for each, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 CI B)	73
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4890
GRO+DRO (EPA SW-846 Method 8015M)	4890
BTEX (EPA SW-846 Method 8021B c	or 8260B) 29.1
Benzene (EPA SW-846 Method 8021B	or 8260B) 0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization repo which includes the anticipated timelines for beginning and completing the re	ort includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, emediation.
On what estimated date will the remediation commence	03/15/2024
On what date will (or did) the final sampling or liner inspection of	occur 04/01/2024
On what date will (or was) the remediation complete(d)	03/20/2024
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 reclai	imed 0
What is the estimated surface area (in square feet) that will be	remediated 900
What is the estimated volume (in cubic yards) that will be remed	diated 500
These estimated dates and measurements are recognized to be the best gue	ess 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 m	ninimally 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.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II**

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 314072

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	314072
	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.)	Yes	
Which OCD approved facility will be used for off-site disposal	ENVIROTECH LANDFARM #2 [fEEM0112336756]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 02/13/2024

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

QUESTIONS, Page 5

Action 314072

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	314072
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 314072

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Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	314072	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Sampling Event Information		
Last sampling notification (C-141N) recorded	{Unavailable.}	
Remediation Closure Request		

No

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

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CONDITIONS

Action 314072

CONDITIONS

Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	314072	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

CONDITIONS

Created	Condition	Condition
Ву		Date
nvelez	Remediation plan is approved as written. Hilcorp has until May 20, 2024 to submit to OCD its appropriate or final remediation closure report.	2/20/2024