## Executive Summary – Incident #nAPP2402238689

Hilcorp operations personnel identified a release at the Howell G #2 wellsite (API 30-045-60190) on 1/7/2024. During weekly site visits, operator identified an oil stain in the gravel around the tank. Upon further investigation, it was found that the tank fire tube had frozen and failed, releasing approximately 21 bbls of oil and 12 bbls of produced water to the ground. No fluids were recovered. There was no immediate danger to the public and no fire occurred because of this release.

Samples were collected to delineate the extent of impacts on the pad. Based on delineation sample results, impacted soil was removed from the pad and transported offsite for disposal. Excavation area is shown in the field sample diagrams below.

Twenty-six 5-point composite samples were collected on February 22, February 26, March 1 and March 6, 2024. Analytical results from this sampling event were below NMOCD action criteria noted in NMAC 19.15.29 Table 1. Sample results are included at the end of this summary report.

## Scaled Site Map

Lat: 36.83539 Long: -107.71921 Howell G #2 Wellsite API: 30-045-60190



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Release Area

## Depth to groundwater determination.

BGT Siting Criteria for Howell G #2; estimated depth to groundwater is approximately 216'.

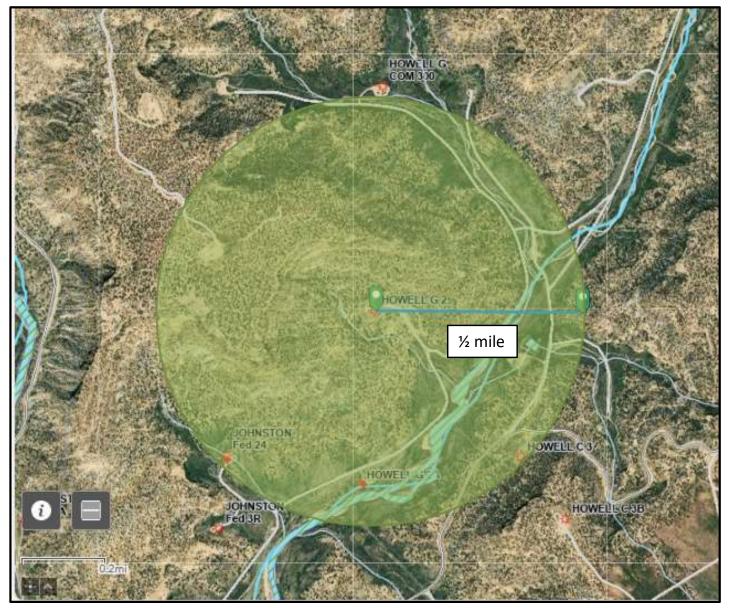
#### **HOWELL G2**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HOWELL G 2', which is located at 36.83539 degrees North latitude and 107.71921 degrees West longitude. This location is located on the Archuleta 7.5' USGS topographic quadrangle. This location is in section 6 of Township 30 North Range 9 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Turley, located 6.8 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 27.9 miles to the west (National Atlas). The nearest highway is State Highway 173, located 2.3 miles to the southeast. The location is on Private land and is 334 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1861 meters or 6104 feet above sea level and receives 13 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Grassland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 216 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 267 feet to the south and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,251 feet to the southeast. The nearest water body is 1,699 feet to the east. It is classified by the USGS as an intermittent lake and is 0.3 acres in size. The nearest spring is 15,397 feet to the northwest. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 6,433 feet to the northeast. The nearest wetland is a 109.5 acre Ravine located 1,188 feet to the southeast. The slope at this location is 7 degrees to the southeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Rock outcrop-Travessilla-Weska complex, extremely steep' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 13.1 miles to the northwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

# Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release







**Note 1:** Release point is within 300 ft of a continuously flowing watercourse or other significant water course.

**Note 2:** The lateral extents of the release point are not shown to be within 300 feet of a mapped wetland.

Distance to mapped water wells: mapped water wells are approximately 1.25 miles from the Howell G #2.



**Note:** The lateral extents of the release point are not shown to be within 500 ft of a spring or domestic freshwater well used by less than 5 households (or stock watering) or within 1,000 ft of any freshwater water well or spring.

## Data table of soil contaminant concentrations

|                     |                |                     |                          |                          |                          | Howell G #2          | Laboratory F       | Results            |                         |                            |                       |
|---------------------|----------------|---------------------|--------------------------|--------------------------|--------------------------|----------------------|--------------------|--------------------|-------------------------|----------------------------|-----------------------|
| Sample Name         | Sample Date    | Chloride<br>(mg/kg) | TPH as<br>DRO<br>(mg/kg) | TPH as<br>GRO<br>(mg/kg) | TPH as<br>MRO<br>(mg/kg) | Total TPH<br>(mg/kg) | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethylbenzene<br>(mg/kg) | Total<br>Xylene<br>(mg/kg) | Total BTEX<br>(mg/kg) |
| 19.15.29 Table 1 Cl | osure Criteria | 600                 | -                        | -                        | -                        | 100                  | 10                 | -                  |                         | -                          | 50                    |
| FS01                | 2/22/2024      | ND                  | 36                       | ND                       | ND                       | 36                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS02                | 2/22/2024      | ND                  | 18                       | ND                       | ND                       | 18                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS03                | 2/22/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FSO4                | 2/22/2024      | ND                  | 14                       | ND                       | ND                       | 14                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS05                | 2/22/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS06                | 2/22/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS07                | 2/22/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS08                | 2/26/2024      | ND                  | 17                       | ND                       | ND                       | 17                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FSO9                | 2/26/2024      | ND                  | 23                       | ND                       | ND                       | 23                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS10                | 2/26/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS11                | 2/26/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS12                | 2/26/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW1                 | 2/22/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW2                 | 2/22/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW3                 | 2/22/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW4                 | 2/22/2024      | ND                  | 17                       | ND                       | ND                       | 17                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW5                 | 2/22/2024      | ND                  | 260                      | ND                       | 660                      | 920                  | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW6                 | 2/22/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW7                 | 2/23/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW8                 | 2/23/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW9                 | 2/26/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW10                | 2/26/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW11                | 2/26/2024      | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| SW12                | 3/1/2024       | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS13                | 3/1/2024       | ND                  | 97                       | ND                       | 250                      | 347                  | ND                 | ND                 | ND                      | ND                         | ND                    |
| FS13a               | 3/6/2024       | ND                  | ND                       | ND                       | ND                       | ND                   | ND                 | ND                 | ND                      | ND                         | ND                    |

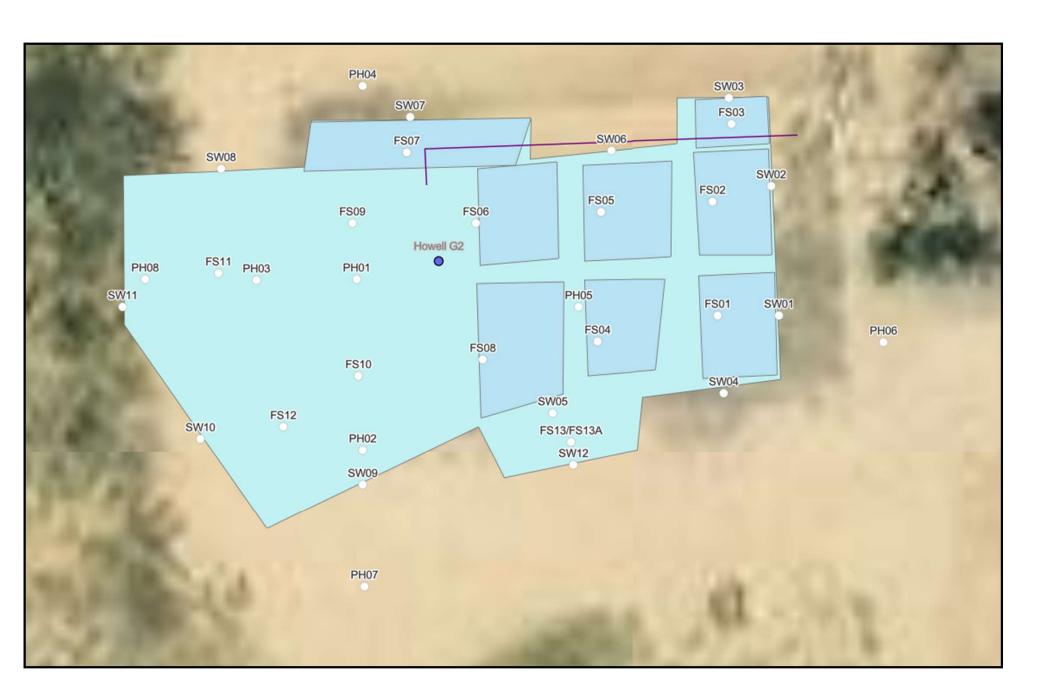
FS = Floor Sample

SW = Sidewall

Confirmation samples were collected on 2/22, 2/26, 3/1 and 3/6 by Ensolum personnel. Sidewall sample #5 was further excavated and shown to be clean at SW #12, as shown on the following site diagram. FS 13 and FS 13a are in the same location, 13a collected after impacted material was removed.

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## Howell G #2 Field Sample Diagram



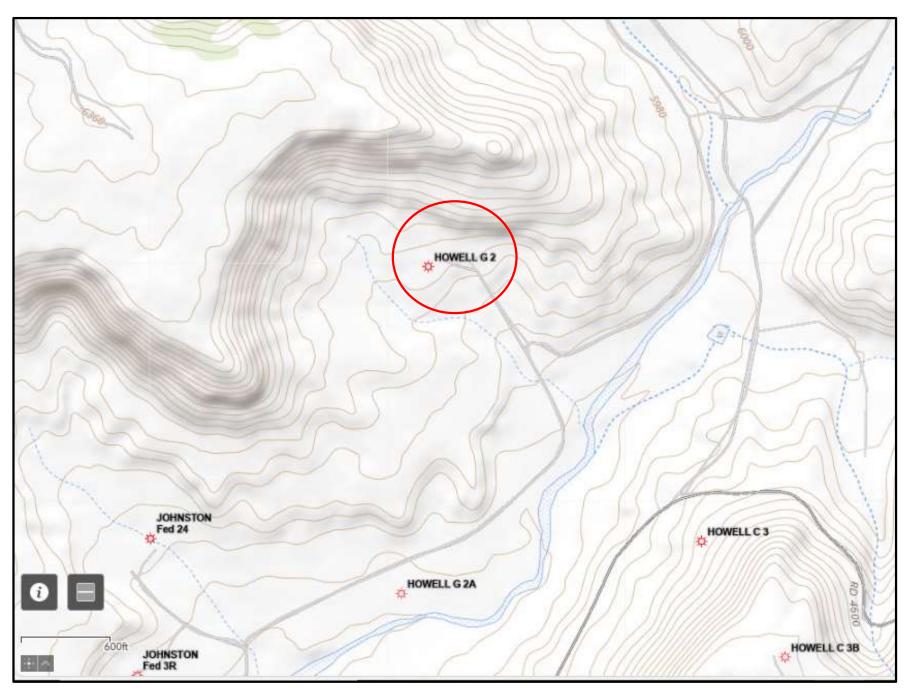








## Topographic Map



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Analytical Data.

See attached Lab 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

March 01, 2024

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

FAX

RE: Howell G2 OrderNo.: 2402C28

#### Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 7 sample(s) on 2/24/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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: 3/1/2024

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS01

 Project:
 Howell G2
 Collection Date: 2/22/2024 10:29:00 AM

 Lab ID:
 2402C28-001
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed        |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS |          |          |    | Analyst: <b>JKU</b>  |
| Diesel Range Organics (DRO)          | 36     | 9.3      | mg/Kg    | 1  | 2/26/2024 1:23:01 PM |
| Motor Oil Range Organics (MRO)       | ND     | 47       | mg/Kg    | 1  | 2/26/2024 1:23:01 PM |
| Surr: DNOP                           | 89.8   | 61.2-134 | %Rec     | 1  | 2/26/2024 1:23:01 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)        | ND     | 4.2      | mg/Kg    | 1  | 2/26/2024 4:15:00 PM |
| Surr: BFB                            | 107    | 15-244   | %Rec     | 1  | 2/26/2024 4:15:00 PM |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: RAA         |
| Benzene                              | ND     | 0.021    | mg/Kg    | 1  | 2/26/2024 4:15:00 PM |
| Toluene                              | ND     | 0.042    | mg/Kg    | 1  | 2/26/2024 4:15:00 PM |
| Ethylbenzene                         | ND     | 0.042    | mg/Kg    | 1  | 2/26/2024 4:15:00 PM |
| Xylenes, Total                       | ND     | 0.084    | mg/Kg    | 1  | 2/26/2024 4:15:00 PM |
| Surr: 4-Bromofluorobenzene           | 101    | 39.1-146 | %Rec     | 1  | 2/26/2024 4:15:00 PM |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: KCB         |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/26/2024 7:56:17 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
- 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

Date Reported: 3/1/2024

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS02

 Project:
 Howell G2
 Collection Date: 2/22/2024 10:32:00 AM

 Lab ID:
 2402C28-002
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed        |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS |          |          |    | Analyst: <b>JKU</b>  |
| Diesel Range Organics (DRO)          | 18     | 9.5      | mg/Kg    | 1  | 2/26/2024 1:35:16 PM |
| Motor Oil Range Organics (MRO)       | ND     | 48       | mg/Kg    | 1  | 2/26/2024 1:35:16 PM |
| Surr: DNOP                           | 86.9   | 61.2-134 | %Rec     | 1  | 2/26/2024 1:35:16 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)        | ND     | 3.4      | mg/Kg    | 1  | 2/26/2024 4:37:00 PM |
| Surr: BFB                            | 114    | 15-244   | %Rec     | 1  | 2/26/2024 4:37:00 PM |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: RAA         |
| Benzene                              | ND     | 0.017    | mg/Kg    | 1  | 2/26/2024 4:37:00 PM |
| Toluene                              | ND     | 0.034    | mg/Kg    | 1  | 2/26/2024 4:37:00 PM |
| Ethylbenzene                         | ND     | 0.034    | mg/Kg    | 1  | 2/26/2024 4:37:00 PM |
| Xylenes, Total                       | ND     | 0.068    | mg/Kg    | 1  | 2/26/2024 4:37:00 PM |
| Surr: 4-Bromofluorobenzene           | 100    | 39.1-146 | %Rec     | 1  | 2/26/2024 4:37:00 PM |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: KCB         |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/26/2024 8:09:09 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
- 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/1/2024

CLIENT: HILCORP ENERGY Client Sample ID: FS03

 Project:
 Howell G2
 Collection Date: 2/22/2024 10:36:00 AM

 Lab ID:
 2402C28-003
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                           | Result  | RL Qu    | al Units | DF | Date Analyzed        |
|------------------------------------|---------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE O | RGANICS |          |          |    | Analyst: <b>JKU</b>  |
| Diesel Range Organics (DRO)        | ND      | 9.2      | mg/Kg    | 1  | 2/26/2024 1:47:30 PM |
| Motor Oil Range Organics (MRO)     | ND      | 46       | mg/Kg    | 1  | 2/26/2024 1:47:30 PM |
| Surr: DNOP                         | 85.5    | 61.2-134 | %Rec     | 1  | 2/26/2024 1:47:30 PM |
| EPA METHOD 8015D: GASOLINE RANGE   |         |          |          |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)      | ND      | 4.4      | mg/Kg    | 1  | 2/26/2024 5:21:00 PM |
| Surr: BFB                          | 107     | 15-244   | %Rec     | 1  | 2/26/2024 5:21:00 PM |
| EPA METHOD 8021B: VOLATILES        |         |          |          |    | Analyst: RAA         |
| Benzene                            | ND      | 0.022    | mg/Kg    | 1  | 2/26/2024 5:21:00 PM |
| Toluene                            | ND      | 0.044    | mg/Kg    | 1  | 2/26/2024 5:21:00 PM |
| Ethylbenzene                       | ND      | 0.044    | mg/Kg    | 1  | 2/26/2024 5:21:00 PM |
| Xylenes, Total                     | ND      | 0.089    | mg/Kg    | 1  | 2/26/2024 5:21:00 PM |
| Surr: 4-Bromofluorobenzene         | 99.2    | 39.1-146 | %Rec     | 1  | 2/26/2024 5:21:00 PM |
| EPA METHOD 300.0: ANIONS           |         |          |          |    | Analyst: KCB         |
| Chloride                           | ND      | 60       | mg/Kg    | 20 | 2/26/2024 8:22:01 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
- 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

Date Reported: 3/1/2024

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS04

 Project:
 Howell G2
 Collection Date: 2/22/2024 1:01:00 PM

 Lab ID:
 2402C28-004
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                            | Result  | RL Qu    | al Units | DF | Date Analyzed        |
|-------------------------------------|---------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS |          |          |    | Analyst: <b>JKU</b>  |
| Diesel Range Organics (DRO)         | 14      | 9.3      | mg/Kg    | 1  | 2/26/2024 1:59:43 PM |
| Motor Oil Range Organics (MRO)      | ND      | 47       | mg/Kg    | 1  | 2/26/2024 1:59:43 PM |
| Surr: DNOP                          | 88.1    | 61.2-134 | %Rec     | 1  | 2/26/2024 1:59:43 PM |
| EPA METHOD 8015D: GASOLINE RANGE    |         |          |          |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)       | ND      | 4.0      | mg/Kg    | 1  | 2/26/2024 5:43:00 PM |
| Surr: BFB                           | 119     | 15-244   | %Rec     | 1  | 2/26/2024 5:43:00 PM |
| EPA METHOD 8021B: VOLATILES         |         |          |          |    | Analyst: RAA         |
| Benzene                             | ND      | 0.020    | mg/Kg    | 1  | 2/26/2024 5:43:00 PM |
| Toluene                             | ND      | 0.040    | mg/Kg    | 1  | 2/26/2024 5:43:00 PM |
| Ethylbenzene                        | ND      | 0.040    | mg/Kg    | 1  | 2/26/2024 5:43:00 PM |
| Xylenes, Total                      | ND      | 0.080    | mg/Kg    | 1  | 2/26/2024 5:43:00 PM |
| Surr: 4-Bromofluorobenzene          | 102     | 39.1-146 | %Rec     | 1  | 2/26/2024 5:43:00 PM |
| EPA METHOD 300.0: ANIONS            |         |          |          |    | Analyst: KCB         |
| Chloride                            | ND      | 60       | mg/Kg    | 20 | 2/26/2024 8:34:53 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
- 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

Date Reported: 3/1/2024

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS05

 Project:
 Howell G2
 Collection Date: 2/22/2024 1:08:00 PM

 Lab ID:
 2402C28-005
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF | Date Analyzed        |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |    | Analyst: <b>JKU</b>  |
| Diesel Range Organics (DRO)         | ND     | 9.2      | mg/Kg    | 1  | 2/26/2024 2:12:04 PM |
| Motor Oil Range Organics (MRO)      | ND     | 46       | mg/Kg    | 1  | 2/26/2024 2:12:04 PM |
| Surr: DNOP                          | 89.6   | 61.2-134 | %Rec     | 1  | 2/26/2024 2:12:04 PM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |          |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)       | ND     | 4.3      | mg/Kg    | 1  | 2/26/2024 6:05:00 PM |
| Surr: BFB                           | 108    | 15-244   | %Rec     | 1  | 2/26/2024 6:05:00 PM |
| EPA METHOD 8021B: VOLATILES         |        |          |          |    | Analyst: RAA         |
| Benzene                             | ND     | 0.021    | mg/Kg    | 1  | 2/26/2024 6:05:00 PM |
| Toluene                             | ND     | 0.043    | mg/Kg    | 1  | 2/26/2024 6:05:00 PM |
| Ethylbenzene                        | ND     | 0.043    | mg/Kg    | 1  | 2/26/2024 6:05:00 PM |
| Xylenes, Total                      | ND     | 0.086    | mg/Kg    | 1  | 2/26/2024 6:05:00 PM |
| Surr: 4-Bromofluorobenzene          | 102    | 39.1-146 | %Rec     | 1  | 2/26/2024 6:05:00 PM |
| EPA METHOD 300.0: ANIONS            |        |          |          |    | Analyst: KCB         |
| Chloride                            | ND     | 60       | mg/Kg    | 20 | 2/26/2024 9:13:31 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
- 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/1/2024

CLIENT: HILCORP ENERGY Client Sample ID: FS06

 Project:
 Howell G2
 Collection Date: 2/22/2024 2:41:00 PM

 Lab ID:
 2402C28-006
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed        |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS |          |          |    | Analyst: <b>JKU</b>  |
| Diesel Range Organics (DRO)          | ND     | 9.7      | mg/Kg    | 1  | 2/26/2024 2:24:10 PM |
| Motor Oil Range Organics (MRO)       | ND     | 48       | mg/Kg    | 1  | 2/26/2024 2:24:10 PM |
| Surr: DNOP                           | 88.3   | 61.2-134 | %Rec     | 1  | 2/26/2024 2:24:10 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)        | ND     | 4.2      | mg/Kg    | 1  | 2/26/2024 6:26:00 PM |
| Surr: BFB                            | 108    | 15-244   | %Rec     | 1  | 2/26/2024 6:26:00 PM |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: RAA         |
| Benzene                              | ND     | 0.021    | mg/Kg    | 1  | 2/26/2024 6:26:00 PM |
| Toluene                              | ND     | 0.042    | mg/Kg    | 1  | 2/26/2024 6:26:00 PM |
| Ethylbenzene                         | ND     | 0.042    | mg/Kg    | 1  | 2/26/2024 6:26:00 PM |
| Xylenes, Total                       | ND     | 0.084    | mg/Kg    | 1  | 2/26/2024 6:26:00 PM |
| Surr: 4-Bromofluorobenzene           | 100    | 39.1-146 | %Rec     | 1  | 2/26/2024 6:26:00 PM |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: <b>KCB</b>  |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/26/2024 9:26:23 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 11

Date Reported: 3/1/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS07

 Project:
 Howell G2
 Collection Date: 2/23/2024 1:45:00 PM

 Lab ID:
 2402C28-007
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF | Date Analyzed        |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |    | Analyst: <b>JKU</b>  |
| Diesel Range Organics (DRO)         | ND     | 9.4      | mg/Kg    | 1  | 2/26/2024 2:36:45 PM |
| Motor Oil Range Organics (MRO)      | ND     | 47       | mg/Kg    | 1  | 2/26/2024 2:36:45 PM |
| Surr: DNOP                          | 96.5   | 61.2-134 | %Rec     | 1  | 2/26/2024 2:36:45 PM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |          |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)       | ND     | 3.6      | mg/Kg    | 1  | 2/26/2024 6:48:00 PM |
| Surr: BFB                           | 106    | 15-244   | %Rec     | 1  | 2/26/2024 6:48:00 PM |
| EPA METHOD 8021B: VOLATILES         |        |          |          |    | Analyst: RAA         |
| Benzene                             | ND     | 0.018    | mg/Kg    | 1  | 2/26/2024 6:48:00 PM |
| Toluene                             | ND     | 0.036    | mg/Kg    | 1  | 2/26/2024 6:48:00 PM |
| Ethylbenzene                        | ND     | 0.036    | mg/Kg    | 1  | 2/26/2024 6:48:00 PM |
| Xylenes, Total                      | ND     | 0.072    | mg/Kg    | 1  | 2/26/2024 6:48:00 PM |
| Surr: 4-Bromofluorobenzene          | 101    | 39.1-146 | %Rec     | 1  | 2/26/2024 6:48:00 PM |
| EPA METHOD 300.0: ANIONS            |        |          |          |    | Analyst: KCB         |
| Chloride                            | ND     | 60       | mg/Kg    | 20 | 2/26/2024 9:39:16 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
- 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

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C28** 

01-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: MB-80640 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 80640 RunNo: 103339

Prep Date: 2/26/2024 Analysis Date: 2/26/2024 SeqNo: 3822717 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-80640 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 80640 RunNo: 103339

Prep Date: 2/26/2024 Analysis Date: 2/26/2024 SeqNo: 3822718 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.8 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

## Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 2/26/2024

PQL

SPK value SPK Ref Val

0

46.82

4.682

Result

33

4.1

WO#: **2402C28** 

01-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

| Sample ID: MB-80622              | SampType          | e: MBLK             | Test        | Code: <b>EPA Method</b>  | 8015M/D: Diesel F | Range Organics |      |  |
|----------------------------------|-------------------|---------------------|-------------|--------------------------|-------------------|----------------|------|--|
| Client ID: PBS                   | Batch ID          | ): <b>80622</b>     | R           | unNo: <b>103335</b>      |                   |                |      |  |
| Prep Date: 2/26/2024             | Analysis Date     | e: <b>2/26/2024</b> | S           | eqNo: <b>3822456</b>     | Units: mg/Kg      |                |      |  |
| Analyte                          | Result F          | PQL SPK value       | SPK Ref Val | %REC LowLimit            | HighLimit %F      | RPD RPDLimit   | Qual |  |
| Diesel Range Organics (DRO)      | ND                | 10                  |             |                          |                   |                |      |  |
| Motor Oil Range Organics (MRO)   | ND                | 50                  |             |                          |                   |                |      |  |
| Surr: DNOP                       | 8.2               | 10.00               |             | 82.1 61.2                | 134               |                |      |  |
| Sample ID: LCS-80622             | SampType          | e: <b>LCS</b>       | Test        | Code: <b>EPA Metho</b> c | 8015M/D: Diesel F | Range Organics |      |  |
| Client ID: LCSS                  | Batch ID          | ): <b>80622</b>     | R           | unNo: <b>103335</b>      |                   |                |      |  |
| Prep Date: 2/26/2024             | Analysis Date     | e: <b>2/26/2024</b> | S           | eqNo: <b>3822457</b>     | Units: mg/Kg      |                |      |  |
| Analyte                          | Result F          | PQL SPK value       | SPK Ref Val | %REC LowLimit            | HighLimit %F      | RPD RPDLimit   | Qual |  |
| Diesel Range Organics (DRO)      | 41                | 10 50.00            | 0           | 81.6 59.7                | 135               |                |      |  |
| Surr: DNOP                       | 4.0               | 5.000               |             | 80.9 61.2                | 134               |                |      |  |
| Sample ID: 2402C28-007AMS        | SampType          | e: MS               | Test        | Code: EPA Method         | 8015M/D: Diesel F | Range Organics |      |  |
| Client ID: FS07                  | Batch ID          | ): <b>80622</b>     | R           | unNo: <b>103335</b>      |                   |                |      |  |
| Prep Date: 2/26/2024             | Analysis Date     | e: <b>2/26/2024</b> | S           | eqNo: <b>3822475</b>     | Units: mg/Kg      |                |      |  |
| Analyte                          | Result F          | PQL SPK value       | SPK Ref Val | %REC LowLimit            | HighLimit %F      | RPD RPDLimit   | Qual |  |
| Diesel Range Organics (DRO)      | 35                | 9.1 45.29           | 0           | 76.2 43.7                | 136               |                |      |  |
| Surr: DNOP                       | 4.1               | 4.529               |             | 91.3 61.2                | 134               |                |      |  |
| Sample ID: <b>2402C28-007AMS</b> | <b>D</b> SampType | e: <b>MSD</b>       | Test        | Code: <b>EPA Metho</b>   | 8015M/D: Diesel F | Range Organics |      |  |
| Client ID: FS07                  | Batch ID          | ): <b>80622</b>     | R           | unNo: <b>103335</b>      |                   |                |      |  |

#### 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

Prep Date: 2/26/2024

Diesel Range Organics (DRO)

Analyte

Surr: DNOP

B Analyte detected in the associated Method Blank

SeqNo: 3822476

%REC

70.1

88.6

LowLimit

43.7

61.2

Units: mg/Kg

136

134

HighLimit

%RPD

5.09

0

**RPDLimit** 

31.3

0

Qual

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.

WO#: 2402C28

01-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

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

Client ID: LCSS Batch ID: R103349 RunNo: 103349

Prep Date: Analysis Date: 2/26/2024 SeqNo: 3822975 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 93.0 70 130 Surr: BFB 2300 1000 229 15 244

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

Client ID: PBS Batch ID: R103349 RunNo: 103349

Prep Date: Analysis Date: 2/26/2024 SeqNo: 3822976 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 1200 1000 117 15 244

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C28** 

01-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

| Sample ID: 100ng btex Ics  | Samp       | SampType: LCS TestCode: EPA Method             |           |             |          | PA Method | 8021B: Volat | iles |          |      |
|----------------------------|------------|--|-----------|-------------|----------|-----------|--------------|------|----------|------|
| Client ID: LCSS            | Batc       | Batch ID: <b>BS103349</b> RunNo: <b>103349</b> |           |             |          |           |              |      |          |      |
| Prep Date:                 | Analysis D | Date: <b>2/</b>                                | 26/2024   | S           | SeqNo: 3 | 823030    | Units: mg/Kg |      |          |      |
| Analyte                    | Result     | PQL  | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | 0.96       | 0.025  | 1.000     | 0           | 95.5     | 70        | 130          |      |          |      |
| Toluene                    | 0.97       | 0.050  | 1.000     | 0           | 96.8     | 70        | 130          |      |          |      |
| Ethylbenzene               | 1.0        | 0.050  | 1.000     | 0           | 101      | 70        | 130          |      |          |      |
| Xylenes, Total             | 3.1        | 0.10   | 3.000     | 0           | 102      | 70        | 130          |      |          |      |
| Surr: 4-Bromofluorobenzene | 1.1        |  | 1.000     |             | 113      | 39.1      | 146          |      |          |      |

| Sample ID: mb              | SampT      | ype: <b>ME</b> | BLK       | TestCode: EPA Method 8021B: Vol |               |          |             | iles |          |      |
|----------------------------|------------|----------------|-----------|---------------------------------|---------------|----------|-------------|------|----------|------|
| Client ID: PBS             | Batch      | ID: BS         | 103349    | F                               | RunNo: 103349 |          |             |      |          |      |
| Prep Date:                 | Analysis D | ate: 2/        | 26/2024   | S                               | SeqNo: 3      | 823031   | 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 | 1.1        |                | 1.000     |                                 | 111           | 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

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### Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

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

## Sample Log-In Check List

Website: www.hallenvironmental.com HILCORP ENERGY RcptNo: 1 Client Name: Work Order Number: 2402C28 2/24/2024 7:00:00 AM Received By: Juan Rojas Completed By: Juan Rojas 2/24/2024 7:32:34 AM 2/26/24 Reviewed By: ( Chain of Custody No 🗹 Not Present Yes 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In No 🗔 NA 🗌 Yes 🗸 3. Was an attempt made to cool the samples? No 🗀 NA 🖂 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 Yes 🔽 No 🗌 5. Sample(s) in proper container(s)? No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🗹 No  $\square$ Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? No 🗹 NA 🔲 8. Was preservative added to bottles? Yes 🗌 NA 🔽 No 🗌 Yes 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  $\square$ No 🗹 10. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 Yes 🗹 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Checked by: No 🗌 Yes 🗸 14. Were all holding times able to be met?

#### Special Handling (if applicable)

(If no, notify customer for authorization.)

| 5. Was client notifi | ed of all discrepancies with | n this order? | Yes 🗌     | No 🗀          | NA 🗹      |
|----------------------|------------------------------|---------------|-----------|---------------|-----------|
| Person No            | otified:                     | Date          | 9:        |               |           |
| By Whom              |                              | Via:          | eMail   I | Phone 🗌 Fax 📗 | In Person |
| Regarding            | r                            |               |           |               |           |
| Client Inst          | ructions:                    |               |           |               |           |

16. Additional remarks:

Client missing mailing address, phone number, and email address on COC. JR 2/24/24

17. Cooler Information

| Cooler No | Temp ⁰C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 0.4     | Good      | Yes         | Yogi    |           |           |

| Chain-of-Custody Record                | Turn-Around Time: 2/27                       | HALL ENVIRONMENTAL   |
|--|--|--|
|  | 1  | www.hallenvironmental.com  |
| Mailing Address:                       | Howell 62                                    | 4901 Hawkins NE - Albuquerque, NM 87109  |
|  | Project #:                                   | Tel. 505-345-3975 Fax 505-345-4107   |
| Phone #:                               |  | Analysis Request   |
| email or Fax#:                         | Project Manager: Start Hock                  | †OS  |
| :ebi                                   | Shoop of show com                            | O <sup>#</sup> 6   |
| ☐ Standard ☐ Level 4 (Full Validation) |  | O  |
| Accreditation:                         | Sampler: My On Ice: TYPES IN No              | 808/s<br>(1.407<br>(1.407<br>(28 10<br>82<br>(AC)  |
| □ EDD (Type)                           | 7005   | 0(GF<br>310<br>310<br>(AO<br>310<br>(AO<br>(A)   |
|  | Caoler Temp(including cr): 62+0.2 = 0.4 (°C) | ostinestinestinestinestinestinestinestine  |
| Time Natriv Sample Name                | Container Preservative HEAL No.              | 91EX/<br>8081 P<br>8081 P<br>1081 P<br>1081 P<br>1081 P<br>1081 P<br>1081 P<br>1081 P  |
| 4 (029 50.1                            | 1000   | 3<br>3<br>4<br>4<br>4<br>5<br>7<br>8   |
| 1 1032 1 6502                          |  |  |
| 103C FS0.3                             | 500-   |  |
| 1301 FSO4                              | h00-   |  |
| 1308 FSOS                              | 500  |  |
| 1 1441 N FSDG                          | 300- \ V                                     |  |
| 343/4 1345 V FSO >                     | 1 C - 107                                    |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Date: Time: Relinguished by:           | Via: Date                                    | Remarks:<br>C: Znnyer @ Onsolun.com  |
| Date: Relinquished by:                 | Received by: Via: Date Time                  |  |
| y, san                                 |  | other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be dearly notated on the analytical report. |



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

March 06, 2024

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

FAX

RE: Howell G2 OrderNo.: 2402C68

#### Dear Stuart Hyde:

Eurofins Environment Testing South Central, LLC received 8 sample(s) on 2/27/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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: 3/6/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS08

 Project:
 Howell G2
 Collection Date: 2/26/2024 12:20:00 PM

 Lab ID:
 2402C68-001
 Matrix: MEOH (SOIL)
 Received Date: 2/27/2024 6:35:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | 17     | 9.7      | mg/Kg    | 1  | 2/27/2024 11:37:14 AM |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg    | 1  | 2/27/2024 11:37:14 AM |
| Surr: DNOP                           | 86.6   | 61.2-134 | %Rec     | 1  | 2/27/2024 11:37:14 AM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)        | ND     | 5.1      | mg/Kg    | 1  | 2/27/2024 11:35:58 AM |
| Surr: BFB                            | 98.8   | 15-244   | %Rec     | 1  | 2/27/2024 11:35:58 AM |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: <b>JJP</b>   |
| Benzene                              | ND     | 0.025    | mg/Kg    | 1  | 2/27/2024 11:35:58 AM |
| Toluene                              | ND     | 0.051    | mg/Kg    | 1  | 2/27/2024 11:35:58 AM |
| Ethylbenzene                         | ND     | 0.051    | mg/Kg    | 1  | 2/27/2024 11:35:58 AM |
| Xylenes, Total                       | ND     | 0.10     | mg/Kg    | 1  | 2/27/2024 11:35:58 AM |
| Surr: 4-Bromofluorobenzene           | 93.0   | 39.1-146 | %Rec     | 1  | 2/27/2024 11:35:58 AM |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: <b>JMT</b>   |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/27/2024 7:18:26 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
- 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS09

 Project:
 Howell G2
 Collection Date: 2/26/2024 12:24:00 PM

 Lab ID:
 2402C68-002
 Matrix: MEOH (SOIL)
 Received Date: 2/27/2024 6:35:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF | Date Analyzed         |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)         | 23     | 9.7      | mg/Kg    | 1  | 2/27/2024 11:49:19 AM |
| Motor Oil Range Organics (MRO)      | ND     | 49       | mg/Kg    | 1  | 2/27/2024 11:49:19 AM |
| Surr: DNOP                          | 90.9   | 61.2-134 | %Rec     | 1  | 2/27/2024 11:49:19 AM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |          |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)       | ND     | 3.7      | mg/Kg    | 1  | 2/27/2024 11:59:40 AM |
| Surr: BFB                           | 107    | 15-244   | %Rec     | 1  | 2/27/2024 11:59:40 AM |
| EPA METHOD 8021B: VOLATILES         |        |          |          |    | Analyst: JJP          |
| Benzene                             | ND     | 0.019    | mg/Kg    | 1  | 2/27/2024 11:59:40 AM |
| Toluene                             | ND     | 0.037    | mg/Kg    | 1  | 2/27/2024 11:59:40 AM |
| Ethylbenzene                        | ND     | 0.037    | mg/Kg    | 1  | 2/27/2024 11:59:40 AM |
| Xylenes, Total                      | ND     | 0.075    | mg/Kg    | 1  | 2/27/2024 11:59:40 AM |
| Surr: 4-Bromofluorobenzene          | 93.8   | 39.1-146 | %Rec     | 1  | 2/27/2024 11:59:40 AM |
| EPA METHOD 300.0: ANIONS            |        |          |          |    | Analyst: <b>JMT</b>   |
| Chloride                            | ND     | 60       | mg/Kg    | 20 | 2/27/2024 7:55:27 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
- 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

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS10

 Project:
 Howell G2
 Collection Date: 2/26/2024 12:27:00 PM

 Lab ID:
 2402C68-003
 Matrix: MEOH (SOIL)
 Received Date: 2/27/2024 6:35:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | ND     | 8.9      | mg/Kg    | 1  | 2/27/2024 12:01:23 PM |
| Motor Oil Range Organics (MRO)       | ND     | 45       | mg/Kg    | 1  | 2/27/2024 12:01:23 PM |
| Surr: DNOP                           | 87.0   | 61.2-134 | %Rec     | 1  | 2/27/2024 12:01:23 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)        | ND     | 4.1      | mg/Kg    | 1  | 2/27/2024 12:23:27 PM |
| Surr: BFB                            | 99.5   | 15-244   | %Rec     | 1  | 2/27/2024 12:23:27 PM |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: <b>JJP</b>   |
| Benzene                              | ND     | 0.021    | mg/Kg    | 1  | 2/27/2024 12:23:27 PM |
| Toluene                              | ND     | 0.041    | mg/Kg    | 1  | 2/27/2024 12:23:27 PM |
| Ethylbenzene                         | ND     | 0.041    | mg/Kg    | 1  | 2/27/2024 12:23:27 PM |
| Xylenes, Total                       | ND     | 0.083    | mg/Kg    | 1  | 2/27/2024 12:23:27 PM |
| Surr: 4-Bromofluorobenzene           | 91.5   | 39.1-146 | %Rec     | 1  | 2/27/2024 12:23:27 PM |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: <b>JMT</b>   |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/27/2024 8:57:10 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
- 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

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS11

 Project:
 Howell G2
 Collection Date: 2/26/2024 12:30:00 PM

 Lab ID:
 2402C68-004
 Matrix: MEOH (SOIL)
 Received Date: 2/27/2024 6:35:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | ND     | 9.0      | mg/Kg    | 1  | 2/27/2024 12:13:29 PM |
| Motor Oil Range Organics (MRO)       | ND     | 45       | mg/Kg    | 1  | 2/27/2024 12:13:29 PM |
| Surr: DNOP                           | 89.2   | 61.2-134 | %Rec     | 1  | 2/27/2024 12:13:29 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)        | ND     | 4.5      | mg/Kg    | 1  | 2/27/2024 12:47:10 PM |
| Surr: BFB                            | 99.5   | 15-244   | %Rec     | 1  | 2/27/2024 12:47:10 PM |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: <b>JJP</b>   |
| Benzene                              | ND     | 0.022    | mg/Kg    | 1  | 2/27/2024 12:47:10 PM |
| Toluene                              | ND     | 0.045    | mg/Kg    | 1  | 2/27/2024 12:47:10 PM |
| Ethylbenzene                         | ND     | 0.045    | mg/Kg    | 1  | 2/27/2024 12:47:10 PM |
| Xylenes, Total                       | ND     | 0.089    | mg/Kg    | 1  | 2/27/2024 12:47:10 PM |
| Surr: 4-Bromofluorobenzene           | 92.0   | 39.1-146 | %Rec     | 1  | 2/27/2024 12:47:10 PM |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: <b>JMT</b>   |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/27/2024 9:09:30 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
- 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

Date Reported: 3/6/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS12

 Project:
 Howell G2
 Collection Date: 2/26/2024 12:34:00 PM

 Lab ID:
 2402C68-005
 Matrix: MEOH (SOIL)
 Received Date: 2/27/2024 6:35:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | ND     | 9.0      | mg/Kg    | 1  | 2/27/2024 12:25:34 PM |
| Motor Oil Range Organics (MRO)       | ND     | 45       | mg/Kg    | 1  | 2/27/2024 12:25:34 PM |
| Surr: DNOP                           | 86.9   | 61.2-134 | %Rec     | 1  | 2/27/2024 12:25:34 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)        | ND     | 4.5      | mg/Kg    | 1  | 2/27/2024 1:10:54 PM  |
| Surr: BFB                            | 97.6   | 15-244   | %Rec     | 1  | 2/27/2024 1:10:54 PM  |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: JJP          |
| Benzene                              | ND     | 0.023    | mg/Kg    | 1  | 2/27/2024 1:10:54 PM  |
| Toluene                              | ND     | 0.045    | mg/Kg    | 1  | 2/27/2024 1:10:54 PM  |
| Ethylbenzene                         | ND     | 0.045    | mg/Kg    | 1  | 2/27/2024 1:10:54 PM  |
| Xylenes, Total                       | ND     | 0.090    | mg/Kg    | 1  | 2/27/2024 1:10:54 PM  |
| Surr: 4-Bromofluorobenzene           | 92.7   | 39.1-146 | %Rec     | 1  | 2/27/2024 1:10:54 PM  |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: <b>JMT</b>   |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/27/2024 9:21:51 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
- 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

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW09

 Project:
 Howell G2
 Collection Date: 2/26/2024 12:39:00 PM

 Lab ID:
 2402C68-006
 Matrix: MEOH (SOIL)
 Received Date: 2/27/2024 6:35:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | ND     | 9.8      | mg/Kg    | 1  | 2/27/2024 12:37:41 PM |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg    | 1  | 2/27/2024 12:37:41 PM |
| Surr: DNOP                           | 86.3   | 61.2-134 | %Rec     | 1  | 2/27/2024 12:37:41 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)        | ND     | 3.7      | mg/Kg    | 1  | 2/27/2024 1:34:44 PM  |
| Surr: BFB                            | 97.1   | 15-244   | %Rec     | 1  | 2/27/2024 1:34:44 PM  |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: JJP          |
| Benzene                              | ND     | 0.019    | mg/Kg    | 1  | 2/27/2024 1:34:44 PM  |
| Toluene                              | ND     | 0.037    | mg/Kg    | 1  | 2/27/2024 1:34:44 PM  |
| Ethylbenzene                         | ND     | 0.037    | mg/Kg    | 1  | 2/27/2024 1:34:44 PM  |
| Xylenes, Total                       | ND     | 0.075    | mg/Kg    | 1  | 2/27/2024 1:34:44 PM  |
| Surr: 4-Bromofluorobenzene           | 91.9   | 39.1-146 | %Rec     | 1  | 2/27/2024 1:34:44 PM  |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: <b>JMT</b>   |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/27/2024 9:34:13 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
- 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

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW10

 Project:
 Howell G2
 Collection Date: 2/26/2024 12:44:00 PM

 Lab ID:
 2402C68-007
 Matrix: MEOH (SOIL)
 Received Date: 2/27/2024 6:35:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | ND     | 9.2      | mg/Kg    | 1  | 2/27/2024 12:49:48 PM |
| Motor Oil Range Organics (MRO)       | ND     | 46       | mg/Kg    | 1  | 2/27/2024 12:49:48 PM |
| Surr: DNOP                           | 87.7   | 61.2-134 | %Rec     | 1  | 2/27/2024 12:49:48 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)        | ND     | 4.3      | mg/Kg    | 1  | 2/27/2024 1:58:36 PM  |
| Surr: BFB                            | 97.4   | 15-244   | %Rec     | 1  | 2/27/2024 1:58:36 PM  |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: JJP          |
| Benzene                              | ND     | 0.022    | mg/Kg    | 1  | 2/27/2024 1:58:36 PM  |
| Toluene                              | ND     | 0.043    | mg/Kg    | 1  | 2/27/2024 1:58:36 PM  |
| Ethylbenzene                         | ND     | 0.043    | mg/Kg    | 1  | 2/27/2024 1:58:36 PM  |
| Xylenes, Total                       | ND     | 0.086    | mg/Kg    | 1  | 2/27/2024 1:58:36 PM  |
| Surr: 4-Bromofluorobenzene           | 92.0   | 39.1-146 | %Rec     | 1  | 2/27/2024 1:58:36 PM  |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: <b>JMT</b>   |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/27/2024 9:46:33 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
- 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

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW11

 Project:
 Howell G2
 Collection Date: 2/26/2024 12:49:00 PM

 Lab ID:
 2402C68-008
 Matrix: MEOH (SOIL)
 Received Date: 2/27/2024 6:35:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF | Date Analyzed        |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |    | Analyst: <b>JKU</b>  |
| Diesel Range Organics (DRO)         | ND     | 9.4      | mg/Kg    | 1  | 2/27/2024 1:01:55 PM |
| Motor Oil Range Organics (MRO)      | ND     | 47       | mg/Kg    | 1  | 2/27/2024 1:01:55 PM |
| Surr: DNOP                          | 92.8   | 61.2-134 | %Rec     | 1  | 2/27/2024 1:01:55 PM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |          |    | Analyst: JJP         |
| Gasoline Range Organics (GRO)       | ND     | 3.7      | mg/Kg    | 1  | 2/27/2024 2:22:32 PM |
| Surr: BFB                           | 95.7   | 15-244   | %Rec     | 1  | 2/27/2024 2:22:32 PM |
| EPA METHOD 8021B: VOLATILES         |        |          |          |    | Analyst: JJP         |
| Benzene                             | ND     | 0.018    | mg/Kg    | 1  | 2/27/2024 2:22:32 PM |
| Toluene                             | ND     | 0.037    | mg/Kg    | 1  | 2/27/2024 2:22:32 PM |
| Ethylbenzene                        | ND     | 0.037    | mg/Kg    | 1  | 2/27/2024 2:22:32 PM |
| Xylenes, Total                      | ND     | 0.074    | mg/Kg    | 1  | 2/27/2024 2:22:32 PM |
| Surr: 4-Bromofluorobenzene          | 91.5   | 39.1-146 | %Rec     | 1  | 2/27/2024 2:22:32 PM |
| EPA METHOD 300.0: ANIONS            |        |          |          |    | Analyst: <b>JMT</b>  |
| Chloride                            | ND     | 60       | mg/Kg    | 20 | 2/27/2024 9:58:55 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
- 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

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C68** 

06-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: MB-80665 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 80665 RunNo: 103345

Prep Date: 2/27/2024 Analysis Date: 2/27/2024 SeqNo: 3824031 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-80665 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 80665 RunNo: 103345

Prep Date: 2/27/2024 Analysis Date: 2/27/2024 SeqNo: 3824032 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.5 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C68** 

06-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: MB-80650 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 80650 RunNo: 103351 Prep Date: 2/27/2024 Analysis Date: 2/27/2024 SeqNo: 3823081 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 9.1 10.00 91.2 61.2 134 Sample ID: LCS-80650 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 80650 RunNo: 103351 Prep Date: 2/27/2024 Analysis Date: 2/27/2024 SeqNo: 3823082 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 10 59.7 Diesel Range Organics (DRO) 42 50.00 84.3 135 Surr: DNOP 5.000 88.2 61.2 134 Sample ID: MB-80645 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 80645 RunNo: 103351 Prep Date: 2/26/2024 Analysis Date: 2/27/2024 SeqNo: 3823708 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 9.0 10.00 89.9 61.2 134

| Sample ID: LCS-80645 | SampType: LCS            | l'estCode: EPA Method 8015M/D: Diesel Range Organics |                         |      |  |  |
|----------------------|--------------------------|--|-------------------------|------|--|--|
| Client ID: LCSS      | Batch ID: 80645          | RunNo: 103351  |                         |      |  |  |
| Prep Date: 2/26/2024 | Analysis Date: 2/27/2024 | SeqNo: <b>3823709</b>                                | Units: %Rec             |      |  |  |
| Analyte              | Result PQL SPK value     | SPK Ref Val %REC LowLimit                            | HighLimit %RPD RPDLimit | Qual |  |  |
| Surr: DNOP           | 4.6 5.000                | 91.8 61.2  | 134                     |      |  |  |

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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.

SampType: MBLK

WO#: **2402C68** 

06-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: mb

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: GS103338 RunNo: 103338 Prep Date: Analysis Date: 2/27/2024 SeqNo: 3822670 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 70 26 102 130 Surr: BFB 2100 1000 208 15 244

Client ID: PBS Batch ID: GS103338 RunNo: 103338 Prep Date: Analysis Date: 2/27/2024 SeqNo: 3822671 Units: mg/Kg %REC LowLimit Analyte Result **PQL** SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 980 Surr: BFB 1000 98.3 15 244

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: 2402C68-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: FS08 Batch ID: GS103338 RunNo: 103338 SeqNo: 3824292 Prep Date: Analysis Date: 2/27/2024 Units: mg/Kg %RPD SPK value SPK Ref Val LowLimit Analyte Result **PQL** %REC HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.1 25.43 0 98.9 70 130 Surr: BFB 2200 1017 212 15 244

Sample ID: 2402C68-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: FS08 Batch ID: GS103338 RunNo: 103338 Prep Date: Analysis Date: 2/27/2024 SeqNo: 3824293 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.1 25.43 98.0 70 0.934 20 130 Surr: BFB 2200 1017 213 15 244 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

8 % 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 11 of 12

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C68** 

06-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

| Sample ID: 100ng btex Ics  | Samp       | Гуре: <b>LC</b>   | s         | TestCode: EPA Method 8021B: Volatiles |          |          |              |      |          |      |
|----------------------------|------------|-------------------|-----------|---------------------------------------|----------|----------|--------------|------|----------|------|
| Client ID: LCSS            | Batc       | h ID: <b>R1</b>   | 03338     | F                                     | RunNo: 1 | 03338    |              |      |          |      |
| Prep Date:                 | Analysis [ | Date: <b>2/</b> 2 | 27/2024   | SeqNo: <b>3822674</b>                 |          |          | Units: mg/Kg |      |          |      |
| Analyte                    | Result     | PQL               | SPK value | SPK Ref Val                           | %REC     | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | 0.95       | 0.025             | 1.000     | 0                                     | 94.8     | 70       | 130          |      |          |      |
| Toluene                    | 0.97       | 0.050             | 1.000     | 0                                     | 97.1     | 70       | 130          |      |          |      |
| Ethylbenzene               | 0.98       | 0.050             | 1.000     | 0                                     | 98.3     | 70       | 130          |      |          |      |
| Xylenes, Total             | 3.0        | 0.10              | 3.000     | 0                                     | 98.9     | 70       | 130          |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.97       |                   | 1.000     |                                       | 97.0     | 39.1     | 146          |      |          |      |

| Sample ID: mb              | Sampi      | ype: ME         | BLK       | l'estCode: EPA Method 8021B: Volatiles |          |              |           |      |          |      |  |
|----------------------------|------------|-----------------|-----------|--|----------|--------------|-----------|------|----------|------|--|
| Client ID: PBS             | Batcl      | n ID: <b>R1</b> | 03338     | F                                      | RunNo: 1 | 03338        |           |      |          |      |  |
| Prep Date:                 | Analysis D | Date: 2/        | 27/2024   | SeqNo: <b>3822675</b>                  |          | 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 | 0.94       |                 | 1.000     |  | 93.6     | 39.1         | 146       |      |          |      |  |

| Sample ID: 2402C68-002AMS  | SampT      | ype: MS         | 3         | Tes                   | tCode: El | PA Method | od 8021B: Volatiles |      |          |      |  |  |
|----------------------------|------------|-----------------|-----------|-----------------------|-----------|-----------|---------------------|------|----------|------|--|--|
| Client ID: FS09            | Batcl      | n ID: <b>R1</b> | 03338     | F                     | RunNo: 10 | 03380     |                     |      |          |      |  |  |
| Prep Date:                 | Analysis D | Date: 2/        | 28/2024   | SeqNo: <b>3825805</b> |           |           | Units: mg/Kg        |      |          |      |  |  |
| Analyte                    | Result     | PQL             | SPK value | SPK Ref Val           | %REC      | LowLimit  | HighLimit           | %RPD | RPDLimit | Qual |  |  |
| Benzene                    | 0.64       | 0.019           | 0.7479    | 0                     | 86.1      | 70        | 130                 |      |          |      |  |  |
| Toluene                    | 0.67       | 0.037           | 0.7479    | 0                     | 89.2      | 70        | 130                 |      |          |      |  |  |
| Ethylbenzene               | 0.68       | 0.037           | 0.7479    | 0                     | 91.1      | 70        | 130                 |      |          |      |  |  |
| Xylenes, Total             | 2.1        | 0.075           | 2.244     | 0                     | 91.9      | 70        | 130                 |      |          |      |  |  |
| Surr: 4-Bromofluorobenzene | 0.72       |                 | 0.7479    |                       | 96.2      | 39.1      | 146                 |      |          |      |  |  |

| Sample ID: 2402C68-002AMS  | SD .   | TestCode: EPA Method 8021B: Volatiles |           |             |       |          |           |      |          |      |
|----------------------------|--|---------------------------------------|-----------|-------------|-------|----------|-----------|------|----------|------|
| Client ID: FS09            | Batcl  | h ID: <b>R1</b>                       | 03338     | F           | 03380 |          |           |      |          |      |
| Prep Date:                 | Analysis Date: 2/28/2024 SeqNo: 3825806 Units: mg/Kg |                                       |           |             |       |          |           |      |          |      |
| Analyte                    | Result   | PQL                                   | SPK value | SPK Ref Val | %REC  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | 0.66   | 0.019                                 | 0.7479    | 0           | 88.7  | 70       | 130       | 3.01 | 20       |      |
| Toluene                    | 0.68   | 0.037                                 | 0.7479    | 0           | 90.6  | 70       | 130       | 1.60 | 20       |      |
| Ethylbenzene               | 0.69   | 0.037                                 | 0.7479    | 0           | 92.9  | 70       | 130       | 1.95 | 20       |      |
| Xylenes, Total             | 2.1  | 0.075                                 | 2.244     | 0           | 94.4  | 70       | 130       | 2.72 | 20       |      |
| Surr: 4-Bromofluorobenzene | 0.75   |                                       | 0.7479    |             | 100   | 39.1     | 146       | 0    | 0        |      |

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 12



#### Eurofins Environment Testing South Central, LLC

4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com Sample Log-In Check List

|   |                 |                | ,                | , cosne. wii mi |         | 0,,,,,,     |           |          |                                |                 |
|---|-----------------|----------------|------------------|-----------------|---------|-------------|-----------|----------|--------------------------------|-----------------|
| Client Name:                            | Hilcorp Ene     | ergy           | Work             | Order Numbe     | er: 240 | 2C68        |           | -        | RcptNo: 1                      |                 |
| Received By:                            | Tracy Cas       | arrubias       | 2/27/20          | 24 6:35:00 Al   | М       |             |           |          |                                |                 |
| Completed By:                           | Tracy Cas       | arrubias       | 2/27/20          | 24 6:54:30 Al   | М       |             |           |          |                                |                 |
| Reviewed By:                            | 2 2/            | 27/24          |                  |                 |         |             |           |          |                                |                 |
| Chain of Cus                            | tod <u>y</u>    |                |                  |                 |         |             |           |          |                                |                 |
| 1. Is Chain of Cu                       | ustody comp     | lete?          |                  |                 | Yes     |             | No        | <b>V</b> | Not Present                    |                 |
| 2. How was the                          | sample deliv    | ered?          |                  |                 | Cou     | <u>rier</u> |           |          |                                |                 |
| Log In                                  | int made to a   | and the some   | Joo?             |                 | Yes     |             | No        |          | NA 🗆                           |                 |
| 3. Was an attem                         | ipi made to d   | ooi the samp   | nes?             |                 | res     |             | 140       |          | NA 🗀                           |                 |
| 4. Were all samp                        | oles received   | at a tempera   | ature of >0° C   | to 6.0°C        | Yes     | V           | No        |          | NA 🗆                           |                 |
| 5. Sample(s) in p                       | oroper conta    | iner(s)?       |                  |                 | Yes     | <b>V</b>    | No        |          |                                |                 |
| 6. Sufficient sam                       | ple volume f    | or indicated t | est(s)?          |                 | Yes     | <b>V</b>    | No        |          |                                |                 |
| 7. Are samples (                        | except VOA      | and ONG) pr    | operly preserve  | ed?             | Yes     | ✓           | No        |          |                                |                 |
| 8. Was preservat                        | tive added to   | bottles?       |                  |                 | Yes     |             | No        | <b>V</b> | NA $\square$                   |                 |
| 9. Received at le                       | ast 1 vial wit  | h headspace    | <1/4" for AQ V   | OA?             | Yes     |             | No        |          | na 🗹                           |                 |
| 10. Were any san                        | nple containe   | ers received t | oroken?          |                 | Yes     |             | No        | <b>✓</b> | # of preserved bottles checked |                 |
| 11. Does paperwo<br>(Note discrepa      |                 |                | <i>'</i> )       |                 | Yes     | <b>V</b>    | No        |          | for pH:<br>(<2 or >1           | 2 unless noted) |
| 12. Are matrices o                      | correctly iden  | tified on Cha  | in of Custody?   |                 | Yes     | <b>~</b>    | No        |          | Adjusted?                      |                 |
| 13, Is it clear what                    |                 |                | 1?               |                 | Yes     | <b>V</b>    | No        | Ц        | /n                             | 1 - 1 m         |
| 14.Were all holdir<br>(If no, notify cu | _               |                | •                |                 | Yes     | <b>~</b>    | No        |          | Checked by: Time               | 2/22/20         |
| Special Handli                          | ing (if app     | olicable)      |                  |                 |         |             |           |          |                                |                 |
| 15. Was client no                       | tified of all d | iscrepancies   | with this order? | ?               | Yes     |             | No        |          | NA 🗹                           |                 |
| Person                                  | Notified:       |                |                  | Date:           |         |             |           |          |                                |                 |
| By Who                                  | m:              |                |                  | Via:            | ☐ eM    | ail 🗌       | ] Phone [ | ] Fax    | _ In Person                    |                 |
| Regardi                                 | ng:             |                |                  |                 |         |             |           |          |                                |                 |
| Client Ir                               | nstructions:    |                |                  |                 |         | _           |           |          |                                |                 |
| 16. Additional rem                      |                 | ne number a    | nd Email/Fax a   | re missina on   | COC-    | TMC 2       | /27/24    |          |                                |                 |
| 17. Cooler Inform                       |                 |                |                  |                 |         |             | <b>-</b>  |          |                                |                 |
| Cooler No                               | 15              | Condition      | Seal Intact      | Seal No         | Seal D  | ate         | Signed    | Ву       |                                |                 |
| 1                                       | 5.3             | Good           | Yes              | Yogi            |         |             |           |          |                                |                 |

# HALL ENVIRONMENTAL



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

March 01, 2024

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

FAX

RE: Howell G2 OrderNo.: 2402C27

#### Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 8 sample(s) on 2/24/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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: 3/1/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW01

 Project:
 Howell G2
 Collection Date: 2/22/2024 10:06:00 AM

 Lab ID:
 2402C27-001
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | ND     | 9.1      | mg/Kg    | 1  | 2/26/2024 11:20:54 AM |
| Motor Oil Range Organics (MRO)       | ND     | 46       | mg/Kg    | 1  | 2/26/2024 11:20:54 AM |
| Surr: DNOP                           | 83.3   | 61.2-134 | %Rec     | 1  | 2/26/2024 11:20:54 AM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)        | ND     | 4.0      | mg/Kg    | 1  | 2/26/2024 11:53:00 AM |
| Surr: BFB                            | 112    | 15-244   | %Rec     | 1  | 2/26/2024 11:53:00 AM |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: RAA          |
| Benzene                              | ND     | 0.020    | mg/Kg    | 1  | 2/26/2024 11:53:00 AM |
| Toluene                              | ND     | 0.040    | mg/Kg    | 1  | 2/26/2024 11:53:00 AM |
| Ethylbenzene                         | ND     | 0.040    | mg/Kg    | 1  | 2/26/2024 11:53:00 AM |
| Xylenes, Total                       | ND     | 0.081    | mg/Kg    | 1  | 2/26/2024 11:53:00 AM |
| Surr: 4-Bromofluorobenzene           | 105    | 39.1-146 | %Rec     | 1  | 2/26/2024 11:53:00 AM |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: KCB          |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/26/2024 4:56:02 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
- 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

Date Reported: 3/1/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW02

 Project:
 Howell G2
 Collection Date: 2/22/2024 10:09:00 AM

 Lab ID:
 2402C27-002
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF | Date Analyzed         |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)         | ND     | 9.2      | mg/Kg    | 1  | 2/26/2024 11:33:10 AM |
| Motor Oil Range Organics (MRO)      | ND     | 46       | mg/Kg    | 1  | 2/26/2024 11:33:10 AM |
| Surr: DNOP                          | 86.0   | 61.2-134 | %Rec     | 1  | 2/26/2024 11:33:10 AM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |          |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)       | ND     | 4.4      | mg/Kg    | 1  | 2/26/2024 12:58:00 PM |
| Surr: BFB                           | 110    | 15-244   | %Rec     | 1  | 2/26/2024 12:58:00 PM |
| EPA METHOD 8021B: VOLATILES         |        |          |          |    | Analyst: RAA          |
| Benzene                             | ND     | 0.022    | mg/Kg    | 1  | 2/26/2024 12:58:00 PM |
| Toluene                             | ND     | 0.044    | mg/Kg    | 1  | 2/26/2024 12:58:00 PM |
| Ethylbenzene                        | ND     | 0.044    | mg/Kg    | 1  | 2/26/2024 12:58:00 PM |
| Xylenes, Total                      | ND     | 0.087    | mg/Kg    | 1  | 2/26/2024 12:58:00 PM |
| Surr: 4-Bromofluorobenzene          | 104    | 39.1-146 | %Rec     | 1  | 2/26/2024 12:58:00 PM |
| EPA METHOD 300.0: ANIONS            |        |          |          |    | Analyst: KCB          |
| Chloride                            | ND     | 60       | mg/Kg    | 20 | 2/26/2024 5:34:39 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
- 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

Date Reported: 3/1/2024

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: HILCORP ENERGY Client Sample ID: SW03** 

Collection Date: 2/22/2024 10:14:00 AM **Project:** Howell G2 Matrix: SOIL Lab ID: 2402C27-003 Received Date: 2/24/2024 7:00:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF | Date Analyzed         |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)         | ND     | 8.9      | mg/Kg    | 1  | 2/26/2024 11:45:23 AM |
| Motor Oil Range Organics (MRO)      | ND     | 45       | mg/Kg    | 1  | 2/26/2024 11:45:23 AM |
| Surr: DNOP                          | 86.7   | 61.2-134 | %Rec     | 1  | 2/26/2024 11:45:23 AM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |          |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)       | ND     | 4.2      | mg/Kg    | 1  | 2/26/2024 2:04:00 PM  |
| Surr: BFB                           | 111    | 15-244   | %Rec     | 1  | 2/26/2024 2:04:00 PM  |
| EPA METHOD 8021B: VOLATILES         |        |          |          |    | Analyst: RAA          |
| Benzene                             | ND     | 0.021    | mg/Kg    | 1  | 2/26/2024 2:04:00 PM  |
| Toluene                             | ND     | 0.042    | mg/Kg    | 1  | 2/26/2024 2:04:00 PM  |
| Ethylbenzene                        | ND     | 0.042    | mg/Kg    | 1  | 2/26/2024 2:04:00 PM  |
| Xylenes, Total                      | ND     | 0.085    | mg/Kg    | 1  | 2/26/2024 2:04:00 PM  |
| Surr: 4-Bromofluorobenzene          | 103    | 39.1-146 | %Rec     | 1  | 2/26/2024 2:04:00 PM  |
| EPA METHOD 300.0: ANIONS            |        |          |          |    | Analyst: KCB          |
| Chloride                            | ND     | 60       | mg/Kg    | 20 | 2/26/2024 6:39:05 PM  |

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND 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
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Date Reported: 3/1/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW04

 Project:
 Howell G2
 Collection Date: 2/22/2024 10:20:00 AM

 Lab ID:
 2402C27-004
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF | Date Analyzed         |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)         | 17     | 9.3      | mg/Kg    | 1  | 2/26/2024 11:57:29 AM |
| Motor Oil Range Organics (MRO)      | ND     | 47       | mg/Kg    | 1  | 2/26/2024 11:57:29 AM |
| Surr: DNOP                          | 89.7   | 61.2-134 | %Rec     | 1  | 2/26/2024 11:57:29 AM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |          |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)       | ND     | 4.9      | mg/Kg    | 1  | 2/26/2024 2:26:00 PM  |
| Surr: BFB                           | 112    | 15-244   | %Rec     | 1  | 2/26/2024 2:26:00 PM  |
| EPA METHOD 8021B: VOLATILES         |        |          |          |    | Analyst: RAA          |
| Benzene                             | ND     | 0.024    | mg/Kg    | 1  | 2/26/2024 2:26:00 PM  |
| Toluene                             | ND     | 0.049    | mg/Kg    | 1  | 2/26/2024 2:26:00 PM  |
| Ethylbenzene                        | ND     | 0.049    | mg/Kg    | 1  | 2/26/2024 2:26:00 PM  |
| Xylenes, Total                      | ND     | 0.098    | mg/Kg    | 1  | 2/26/2024 2:26:00 PM  |
| Surr: 4-Bromofluorobenzene          | 104    | 39.1-146 | %Rec     | 1  | 2/26/2024 2:26:00 PM  |
| EPA METHOD 300.0: ANIONS            |        |          |          |    | Analyst: KCB          |
| Chloride                            | ND     | 60       | mg/Kg    | 20 | 2/26/2024 6:51:57 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
- 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

Date Reported: 3/1/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW05

 Project:
 Howell G2
 Collection Date: 2/22/2024 12:52:00 AM

 Lab ID:
 2402C27-005
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | 260    | 9.4      | mg/Kg    | 1  | 2/26/2024 12:09:41 PM |
| Motor Oil Range Organics (MRO)       | 660    | 47       | mg/Kg    | 1  | 2/26/2024 12:09:41 PM |
| Surr: DNOP                           | 82.0   | 61.2-134 | %Rec     | 1  | 2/26/2024 12:09:41 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg    | 1  | 2/26/2024 2:48:00 PM  |
| Surr: BFB                            | 110    | 15-244   | %Rec     | 1  | 2/26/2024 2:48:00 PM  |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: RAA          |
| Benzene                              | ND     | 0.024    | mg/Kg    | 1  | 2/26/2024 2:48:00 PM  |
| Toluene                              | ND     | 0.048    | mg/Kg    | 1  | 2/26/2024 2:48:00 PM  |
| Ethylbenzene                         | ND     | 0.048    | mg/Kg    | 1  | 2/26/2024 2:48:00 PM  |
| Xylenes, Total                       | ND     | 0.096    | mg/Kg    | 1  | 2/26/2024 2:48:00 PM  |
| Surr: 4-Bromofluorobenzene           | 104    | 39.1-146 | %Rec     | 1  | 2/26/2024 2:48:00 PM  |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: KCB          |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/26/2024 7:04:49 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
- 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

Date Reported: 3/1/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW06

 Project:
 Howell G2
 Collection Date: 2/22/2024 12:57:00 AM

 Lab ID:
 2402C27-006
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | ND     | 9.5      | mg/Kg    | 1  | 2/26/2024 12:34:04 PM |
| Motor Oil Range Organics (MRO)       | ND     | 48       | mg/Kg    | 1  | 2/26/2024 12:34:04 PM |
| Surr: DNOP                           | 88.9   | 61.2-134 | %Rec     | 1  | 2/26/2024 12:34:04 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)        | ND     | 4.1      | mg/Kg    | 1  | 2/26/2024 3:09:00 PM  |
| Surr: BFB                            | 118    | 15-244   | %Rec     | 1  | 2/26/2024 3:09:00 PM  |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: RAA          |
| Benzene                              | ND     | 0.021    | mg/Kg    | 1  | 2/26/2024 3:09:00 PM  |
| Toluene                              | ND     | 0.041    | mg/Kg    | 1  | 2/26/2024 3:09:00 PM  |
| Ethylbenzene                         | ND     | 0.041    | mg/Kg    | 1  | 2/26/2024 3:09:00 PM  |
| Xylenes, Total                       | 0.15   | 0.082    | mg/Kg    | 1  | 2/26/2024 3:09:00 PM  |
| Surr: 4-Bromofluorobenzene           | 106    | 39.1-146 | %Rec     | 1  | 2/26/2024 3:09:00 PM  |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: KCB          |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/26/2024 7:17:41 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
- 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

Lab Order 2402C27

Date Reported: 3/1/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW07

 Project:
 Howell G2
 Collection Date: 2/23/2024 1:40:00 PM

 Lab ID:
 2402C27-007
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)          | ND     | 9.5      | mg/Kg    | 1  | 2/26/2024 12:46:12 PM |
| Motor Oil Range Organics (MRO)       | ND     | 47       | mg/Kg    | 1  | 2/26/2024 12:46:12 PM |
| Surr: DNOP                           | 89.0   | 61.2-134 | %Rec     | 1  | 2/26/2024 12:46:12 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)        | ND     | 3.9      | mg/Kg    | 1  | 2/26/2024 3:31:00 PM  |
| Surr: BFB                            | 109    | 15-244   | %Rec     | 1  | 2/26/2024 3:31:00 PM  |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: RAA          |
| Benzene                              | ND     | 0.019    | mg/Kg    | 1  | 2/26/2024 3:31:00 PM  |
| Toluene                              | ND     | 0.039    | mg/Kg    | 1  | 2/26/2024 3:31:00 PM  |
| Ethylbenzene                         | ND     | 0.039    | mg/Kg    | 1  | 2/26/2024 3:31:00 PM  |
| Xylenes, Total                       | ND     | 0.077    | mg/Kg    | 1  | 2/26/2024 3:31:00 PM  |
| Surr: 4-Bromofluorobenzene           | 103    | 39.1-146 | %Rec     | 1  | 2/26/2024 3:31:00 PM  |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: KCB          |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 2/26/2024 7:30:33 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
- 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

Date Reported: 3/1/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW08

 Project:
 Howell G2
 Collection Date: 2/23/2024 2:00:00 PM

 Lab ID:
 2402C27-008
 Matrix: SOIL
 Received Date: 2/24/2024 7:00:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF | Date Analyzed         |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |    | Analyst: <b>JKU</b>   |
| Diesel Range Organics (DRO)         | ND     | 9.7      | mg/Kg    | 1  | 2/26/2024 12:58:28 PM |
| Motor Oil Range Organics (MRO)      | ND     | 48       | mg/Kg    | 1  | 2/26/2024 12:58:28 PM |
| Surr: DNOP                          | 87.2   | 61.2-134 | %Rec     | 1  | 2/26/2024 12:58:28 PM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |          |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)       | ND     | 4.4      | mg/Kg    | 1  | 2/26/2024 3:53:00 PM  |
| Surr: BFB                           | 109    | 15-244   | %Rec     | 1  | 2/26/2024 3:53:00 PM  |
| EPA METHOD 8021B: VOLATILES         |        |          |          |    | Analyst: RAA          |
| Benzene                             | ND     | 0.022    | mg/Kg    | 1  | 2/26/2024 3:53:00 PM  |
| Toluene                             | ND     | 0.044    | mg/Kg    | 1  | 2/26/2024 3:53:00 PM  |
| Ethylbenzene                        | ND     | 0.044    | mg/Kg    | 1  | 2/26/2024 3:53:00 PM  |
| Xylenes, Total                      | ND     | 0.088    | mg/Kg    | 1  | 2/26/2024 3:53:00 PM  |
| Surr: 4-Bromofluorobenzene          | 102    | 39.1-146 | %Rec     | 1  | 2/26/2024 3:53:00 PM  |
| EPA METHOD 300.0: ANIONS            |        |          |          |    | Analyst: KCB          |
| Chloride                            | ND     | 60       | mg/Kg    | 20 | 2/26/2024 7:43:25 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
- 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

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C27** 

01-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: MB-80640 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 80640 RunNo: 103339

Prep Date: 2/26/2024 Analysis Date: 2/26/2024 SeqNo: 3822717 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-80640 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 80640 RunNo: 103339

Prep Date: 2/26/2024 Analysis Date: 2/26/2024 SeqNo: 3822718 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.8 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C27** 

01-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: MB-80622 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 80622 RunNo: 103335 Prep Date: 2/26/2024 Analysis Date: 2/26/2024 SeqNo: 3822456 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 8.2 10.00 82.1 61.2 134

Sample ID: LCS-80622 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 80622 RunNo: 103335

Prep Date: 2/26/2024 Analysis Date: 2/26/2024 SeqNo: 3822457 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 41 10 50.00 81.6 59.7 135 Surr: DNOP 4.0 5.000 80.9 61.2 134

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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.

SampType: MBLK

WO#: **2402C27** 

01-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: mb

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R103349 RunNo: 103349 Prep Date: Analysis Date: 2/26/2024 SeqNo: 3822975 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 93.0 70 23 130 Surr: BFB 2300 1000 229 15 244

Client ID: PBS Batch ID: R103349 RunNo: 103349 Prep Date: Analysis Date: 2/26/2024 SeqNo: 3822976 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result **PQL** HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 1200 Surr: BFB 1000 15 117 244

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: 2402c27-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SW01 Batch ID: R103349 RunNo: 103349 Prep Date: Analysis Date: 2/26/2024 SeqNo: 3822978 Units: mg/Kg %RPD SPK value SPK Ref Val Analyte Result **PQL** %REC LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 18 4.0 20.18 0 91.2 70 130 Surr: BFB 1800 807.1 222 15 244

Sample ID: 2402c27-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: SW01 Batch ID: R103349 RunNo: 103349 Prep Date: Analysis Date: 2/26/2024 SeqNo: 3822979 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 19 4.0 20.18 92.3 70 1.18 20 130 Surr: BFB 1800 807.1 228 15 244 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

8 % 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.

WO#: 2402C27

01-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

| Sample ID: 100ng btex Ics  | Sampl      | ype: <b>LC</b>    | s         | Tes         | TestCode: EPA Method 8021B: Volatiles |        |             |      |          |      |  |  |  |  |  |
|----------------------------|------------|-------------------|-----------|-------------|---------------------------------------|--------|-------------|------|----------|------|--|--|--|--|--|
| Client ID: LCSS            | Batc       | h ID: BS          | 103349    | F           |                                       |        |             |      |          |      |  |  |  |  |  |
| Prep Date:                 | Analysis D | Date: <b>2/</b> 2 | 26/2024   | S           | SeqNo: 3                              | 823030 | Units: mg/K | (g   |          |      |  |  |  |  |  |
| Analyte                    | Result     | PQL               | SPK value | SPK Ref Val | K Ref Val %REC LowLimit               |        |             | %RPD | RPDLimit | Qual |  |  |  |  |  |
| Benzene                    | 0.96       | 0.025             | 1.000     | 0           | 95.5                                  | 70     | 130         |      |          |      |  |  |  |  |  |
| Toluene                    | 0.97       | 0.050             | 1.000     | 0 96.8 70   |                                       |        | 130         |      |          |      |  |  |  |  |  |
| Ethylbenzene               | 1.0        | 0.050             | 1.000     | 0 101 70    |                                       |        | 130         |      |          |      |  |  |  |  |  |
| Xylenes, Total             | 3.1        | 0.10              | 3.000     | 0 102 70    |                                       |        | 130         |      |          |      |  |  |  |  |  |
| Surr: 4-Bromofluorobenzene | 1.1        |                   | 1.000     |             | 113                                   | 39.1   | 146         |      |          |      |  |  |  |  |  |

| Sample ID: mb              | Sampl      | Гуре: МЕ | BLK       | TestCode: EPA Method 8021B: Volatiles |          |          |             |           |          |      |  |  |  |  |  |
|----------------------------|------------|----------|-----------|---------------------------------------|----------|----------|-------------|-----------|----------|------|--|--|--|--|--|
| Client ID: PBS             | Batc       | h ID: BS | 103349    | F                                     | RunNo: 1 |          |             |           |          |      |  |  |  |  |  |
| Prep Date:                 | Analysis D | Date: 2/ | 26/2024   | \$                                    | SeqNo: 3 | 823031   | Units: mg/K | ts: 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 | 1.1        |          | 1.000     |                                       | 111      | 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

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#### Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

Albuquerque, NM 87109

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

#### Sample Log-In Check List

| Client Name: HILCORP ENERGY  | Work Order Number         | : 2402C27     |            | RcptNo: 1  |
|--|---------------------------|---------------|------------|--|
| Received By: Juan Rojas  | 2/24/2024 7:00:00 AM      | I             | Hansay     |  |
| Completed By: Juan Rojas   | 2/24/2024 7:21:00 AM      | l             | Housens    |  |
| Reviewed By: CMC   | 2/26/24                   |               |            |  |
| Chain of Custody   |                           |               |            |  |
| 1. Is Chain of Custody complete?   |                           | Yes           | No 🗹       | Not Present  |
| 2. How was the sample delivered?   |                           | Courier       |            |  |
| Log In 3. Was an attempt made to cool the samples                                      | s?                        | Yes 🗸         | No 🗆       | NA $\square$   |
| 4. Were all samples received at a temperature  | re of >0° C to 6.0°C      | Yes 🗹         | No 🗌       | na 🗆   |
| 5. Sample(s) in proper container(s)?   |                           | Yes 🗹         | No 🗌       |  |
| 6. Sufficient sample volume for indicated test   | :(s)?                     | Yes 🗸         | No 🗌       |  |
| 7. Are samples (except VOA and ONG) propo  | erly preserved?           | Yes 🗸         | No 🗌       |  |
| 8. Was preservative added to bottles?  |                           | Yes $\square$ | No 🗹       | NA $\square$   |
| 9. Received at least 1 vial with headspace <1  | /4" for AQ VOA?           | Yes 🗌         | No 🗌       | NA 🗹   |
| 10. Were any sample containers received bro  | ken?                      | Yes           | No 🗹       | # of preserved   |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)       |                           | Yes 🗹         | No 🗆       | bottles checked<br>for pH:<br>(<2 or >12 unless noted) |
| 12. Are matrices correctly identified on Chain of                                      | of Custody?               | Yes 🗹         | No 🗌       | Adjusted?  |
| 13. Is it clear what analyses were requested?  |                           | Yes 🗸         | No 🗆       | - Juden  |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) |                           | Yes 🗹         | No 🗆 📗     | effecked by: 70°0704                                   |
| Special Handling (if applicable)   |                           |               |            |  |
| 15. Was client notified of all discrepancies wit                                       | h this order?             | Yes           | No 🗆       | NA 🗹   |
| Person Notified:   | Date:                     |               |            |  |
| By Whom:   | Via: [                    | eMail 🗌       | Phone  Fax | ☐ In Person  |
| Regarding:   |                           |               |            |  |
| Client Instructions:   |                           |               |            |  |
| 16. Additional remarks:  |                           |               |            |  |
| Client missing mailing address, phor   | ne number and email addre | ess on COC.   | JR 2/24/24 |  |
| 17. Cooler Information  Cooler No Temp °C Condition                                    | Seal Intact Seal No S     | Seal Date     | Signed By  |  |
|  | Seal Intact Seal No S     | ocai Date     | Signed by  |  |

| Chain-of-Custody Record  | Turn-Around Time:                       | HALL ENVIRONMENTAL ANALYSIS LABORATORY  |
|--|---|---|
| of B. com  | , C                                     | www.hallenvironmental.com   |
|  | Howell GL                               | 4901 Hawkins NE - Albuquerque, NM 87109   |
|  | Project #:                              | Tel. 505-345-3975 Fax 505-345-4107  |
| Phone #:   |   | /sis Requ   |
| email or Fax#:   | Project Manager:                        | OS.   |
| QA/QC Package:   | Stuat Hysle Constim. com                | PCB's   |
| in:  | Sampler: Zach Wyes On Ice:   Yes  I No  | <sup>2</sup> O <del>N '</del> £(  |
| ☐ EDD (Type)   | olers: 1                                | D(G<br>hod<br>hod<br>Mets<br>A)<br>AC<br>A)   |
|  | Cooler Temp(netuding cF): (310.2 -0.10) | Pest<br>Met<br>by 8<br>N<br>(VO)  |
| į  | Container Preservative HEAL No.         | 8081<br>EDB (<br>C) F;<br>G) F;<br>G) F;  |
| Matrix Sample Ivanie   |   | )×  |
| - 600  |   |   |
|  | 500-                                    |   |
| SWO4   | h00-                                    |   |
|  | -300-                                   |   |
|  | -006                                    |   |
|  | n, n                                    |   |
| 80MS V 60H 1   | 800                                     | 3   |
|  |   |   |
|  |   |   |
|  |   | 1   |
| Date: Time: Relinquished by:   | Received by: Via: Date Time             | Remarks:  |
| Relinquished by:   | Via:                                    |   |
| If necessary, samples submitted to Hall Environmental may be subcontracted | 1/2                                     | other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. |
|  | a d                                     |   |



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

March 11, 2024

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

FAX

RE: Howell G2 OrderNo.: 2403055

#### Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 3/2/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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

#### Lab Order **2403055**

Date Reported: 3/11/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SW12

 Project:
 Howell G2
 Collection Date: 3/1/2024 9:30:00 AM

 Lab ID:
 2403055-001
 Matrix: MEOH (SOIL)
 Received Date: 3/2/2024 8:00:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF | Date Analyzed       |
|-------------------------------------|--------|----------|----------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |    | Analyst: <b>JKU</b> |
| Diesel Range Organics (DRO)         | ND     | 9.2      | mg/Kg    | 1  | 3/4/2024 2:19:49 PM |
| Motor Oil Range Organics (MRO)      | ND     | 46       | mg/Kg    | 1  | 3/4/2024 2:19:49 PM |
| Surr: DNOP                          | 109    | 61.2-134 | %Rec     | 1  | 3/4/2024 2:19:49 PM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |          |    | Analyst: JJP        |
| Gasoline Range Organics (GRO)       | ND     | 4.1      | mg/Kg    | 1  | 3/4/2024 3:38:22 PM |
| Surr: BFB                           | 112    | 15-244   | %Rec     | 1  | 3/4/2024 3:38:22 PM |
| EPA METHOD 8021B: VOLATILES         |        |          |          |    | Analyst: JJP        |
| Benzene                             | ND     | 0.020    | mg/Kg    | 1  | 3/4/2024 3:38:22 PM |
| Toluene                             | ND     | 0.041    | mg/Kg    | 1  | 3/4/2024 3:38:22 PM |
| Ethylbenzene                        | ND     | 0.041    | mg/Kg    | 1  | 3/4/2024 3:38:22 PM |
| Xylenes, Total                      | ND     | 0.082    | mg/Kg    | 1  | 3/4/2024 3:38:22 PM |
| Surr: 4-Bromofluorobenzene          | 106    | 39.1-146 | %Rec     | 1  | 3/4/2024 3:38:22 PM |
| EPA METHOD 300.0: ANIONS            |        |          |          |    | Analyst: <b>JMT</b> |
| Chloride                            | ND     | 61       | mg/Kg    | 20 | 3/4/2024 3:59:23 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
- 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

#### Lab Order **2403055**

Date Reported: 3/11/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FS13

 Project:
 Howell G2
 Collection Date: 3/1/2024 9:40:00 AM

 Lab ID:
 2403055-002
 Matrix: MEOH (SOIL)
 Received Date: 3/2/2024 8:00:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed       |
|--------------------------------------|--------|----------|----------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |          |    | Analyst: <b>JKU</b> |
| Diesel Range Organics (DRO)          | 97     | 9.1      | mg/Kg    | 1  | 3/4/2024 2:32:02 PM |
| Motor Oil Range Organics (MRO)       | 250    | 45       | mg/Kg    | 1  | 3/4/2024 2:32:02 PM |
| Surr: DNOP                           | 118    | 61.2-134 | %Rec     | 1  | 3/4/2024 2:32:02 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: JJP        |
| Gasoline Range Organics (GRO)        | ND     | 4.2      | mg/Kg    | 1  | 3/4/2024 4:02:07 PM |
| Surr: BFB                            | 111    | 15-244   | %Rec     | 1  | 3/4/2024 4:02:07 PM |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: JJP        |
| Benzene                              | ND     | 0.021    | mg/Kg    | 1  | 3/4/2024 4:02:07 PM |
| Toluene                              | ND     | 0.042    | mg/Kg    | 1  | 3/4/2024 4:02:07 PM |
| Ethylbenzene                         | ND     | 0.042    | mg/Kg    | 1  | 3/4/2024 4:02:07 PM |
| Xylenes, Total                       | ND     | 0.083    | mg/Kg    | 1  | 3/4/2024 4:02:07 PM |
| Surr: 4-Bromofluorobenzene           | 103    | 39.1-146 | %Rec     | 1  | 3/4/2024 4:02:07 PM |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: <b>JMT</b> |
| Chloride                             | ND     | 60       | mg/Kg    | 20 | 3/4/2024 4:14:32 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
- 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

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2403055** 

11-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: MB-80760 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 80760 RunNo: 103490

Prep Date: 3/4/2024 Analysis Date: 3/4/2024 SeqNo: 3830650 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-80760 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 80760 RunNo: 103490

Prep Date: 3/4/2024 Analysis Date: 3/4/2024 SeqNo: 3830651 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 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 Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2403055** 

11-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: MB-80764 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 80764 RunNo: 103485 Prep Date: 3/4/2024 Analysis Date: 3/4/2024 SeqNo: 3829766 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 10.00 107 61.2 11 134

Sample ID: LCS-80764 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 80764 RunNo: 103485 Prep Date: 3/4/2024 Analysis Date: 3/4/2024 SeqNo: 3829767 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 43 10 50.00 86.2 59.7 135 Surr: DNOP 5.3 5.000 106 61.2 134

- 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.

WO#: **2403055** 

11-Mar-24

Client: HILCORP ENERGY

**Project:** Howell G2

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: GS103486 RunNo: 103486 Prep Date: Analysis Date: 3/4/2024 SeqNo: 3829762 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 70 26 106 130

 Gasoline Range Organics (GRO)
 26
 5.0
 25.00
 0
 106
 70
 130

 Surr: BFB
 2300
 1000
 225
 15
 244

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

Client ID: PBS Batch ID: GS103486 RunNo: 103486

Prep Date: Analysis Date: 3/4/2024 SeqNo: 3829763 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
 107
 15
 244

Sample ID: 2403055-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW12** Batch ID: **GS103486** RunNo: **103486** 

Prep Date: Analysis Date: 3/4/2024 SeqNo: 3830440 Units: mg/Kg

%RPD SPK value SPK Ref Val LowLimit **RPDLimit** Analyte Result **PQL** %REC HighLimit Qual Gasoline Range Organics (GRO) 25 4.1 20.43 0 121 70 130 Surr: BFB S 2200 817.0 267 15 244

Sample ID: 2403055-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SW12 Batch ID: GS103486 RunNo: 103486

Prep Date: Analysis Date: 3/4/2024 SeqNo: 3830441 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 21 4.1 20.43 102 70 17.3 20 130 Surr: BFB 1800 817.0 225 15 244 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2403055

11-Mar-24

**Client:** HILCORP ENERGY

**Project:** Howell G2

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: BS103486 RunNo: 103486 Prep Date: Analysis Date: 3/4/2024 Units: mg/Kg SeqNo: 3829783 Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.025 Benzene ND 0.050 0.050 ND

Toluene Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 99.6 39.1 146

Sample ID: 2403055-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: FS13 Batch ID: BS103486 RunNo: 103486 Prep Date: Analysis Date: 3/4/2024 SeqNo: 3830442 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.67 0.021 0.8306 n 80.8 70 Benzene 130 Toluene 0.70 0.042 0.8306 0 84.0 70 130 Ethylbenzene 0.72 0.042 0.8306 0 86.9 70 130 Xylenes, Total 2.2 0.083 2.492 0.01503 87.3 70 130 Surr: 4-Bromofluorobenzene 0.84 0.8306 101 39.1 146

Sample ID: 2403055-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: FS13 Batch ID: BS103486 RunNo: 103486 Prep Date: Analysis Date: 3/4/2024 SeqNo: 3830443 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 0.65 0.021 0.8306 78.2 70 130 3.24 20 Λ Toluene 0.68 0.042 0.8306 0 82.3 70 130 2.05 20 0.042 85.6 0.71 0.8306 0 70 130 1.53 20 Ethylbenzene Xylenes, Total 0.083 2.492 0.01503 86.2 2.2 70 130 1.20 20

0.8306

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

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

0.85

В Analyte detected in the associated Method Blank

102

39.1

146

0

0

Е Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 6 of 6



#### Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

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

#### Sample Log-In Check List

EL: 303-343-39/3 FAX: 303-343-410/ Website: www.hallenvironmental.com

| Clie   | nt Name:                    | HILCORP E                      | NERGY           | Work               | Order Numb   | er: 2403 | 3055     |           | RcptNo:                    | 1                 |
|--------|-----------------------------|--------------------------------|-----------------|--------------------|--------------|----------|----------|-----------|----------------------------|-------------------|
| Rec    | eived By:                   | Cheyenne                       | Cason           | 3/2/202            | 4 8:00:00 Al | М        |          | Chenl     |                            |                   |
| Con    | npleted By:                 | Cheyenne                       | Cason           | 3/2/202            | 4 8:27:04 Al | М        |          | Chul      |                            |                   |
| Rev    | iewed By:                   | DAO                            | 3/2/24          |                    |              |          |          |           |                            |                   |
| Cha    | in of Cus                   | tody                           |                 |                    |              |          |          |           | _                          |                   |
| 1. 19  | S Chain of C                | ustody compl                   | ete?            |                    |              | Yes      | <b>V</b> | No 🗀      | Not Present                |                   |
| 2. H   | low was the                 | sample delive                  | ered?           |                    |              | Cou      | rier     |           |                            |                   |
| _      | g <i>In</i><br>Vas an atten | npt made to c                  | ool the samp    | les?               |              | Yes      | V        | No 🗆      | na 🗌                       |                   |
| 4. W   | <i>l</i> ere all sam        | ples received                  | at a tempera    | ture of >0° C      | to 6.0°C     | Yes      | <b>V</b> | No 🗆      | NA $\square$               |                   |
| 5. s   | ample(s) in                 | proper contai                  | ner(s)?         |                    |              | Yes      | <b>✓</b> | No 🗌      |                            |                   |
| 6. S   | ufficient sam               | nple volume fo                 | or indicated te | est(s)?            |              | Yes      | V        | No 🗆      |                            |                   |
| 7. A   | re samples (                | (except VOA                    | and ONG) pro    | perly preserve     | ed?          | Yes      | <b>V</b> | No 🗌      |                            |                   |
| 8. w   | las preserva                | itive added to                 | bottles?        |                    |              | Yes      |          | No 🗹      | NA 🗆                       |                   |
| 9. R   | eceived at le               | east 1 vial with               | h headspace     | <1/4" for AQ \     | OA?          | Yes      |          | No 🗆      | NA 🗹                       |                   |
| 10. v  | Vere any sar                | mple containe                  | ers received b  | roken?             |              | Yes      | Ш        | No 🗹      | # of preserved             |                   |
|        | • (5)                       | ork match bot<br>ancies on cha |                 | ·)                 |              | Yes      | <b>~</b> | No 🗆      | bottles checked<br>for pH: | >12 unless noted) |
|        | _                           |                                | •               | ,<br>n of Custody? |              | Yes      | <b>V</b> | No 🗆      | Adjusted?                  |                   |
| 13. ls | it clear wha                | it analyses we                 | ere requested   | ?                  |              | Yes      | <b>V</b> | No 🗌      |                            | 3/2/24            |
|        |                             | ing times able                 |                 |                    |              | Yes      | V        | No 🗌      | Checked by:                | me 3/10/-         |
|        |                             | ing (if app                    |                 |                    |              |          |          |           |                            |                   |
| 500    |                             |                                |                 | with this order    | ?            | Yes      |          | No 🗆      | NA 🗹                       |                   |
|        | Person<br>By Wh             | Notified:                      |                 |                    | Date:        | _ eM     | ail [    | Phone Fax | ☐ In Person                |                   |
|        | Regard<br>Client I          | ling:<br>nstructions:          |                 |                    |              |          |          |           |                            |                   |
| 16.    | Additional re               | emarks:                        |                 |                    |              |          | -        |           |                            |                   |
| 17.    | Cooler Info                 | rmation                        |                 |                    |              |          |          |           |                            |                   |
|        | Cooler No                   | Temp °C                        | Condition       | Seal Intact        | Seal No      | Seal D   | ate      | Signed By |                            |                   |
|        | 1                           | 0.0                            | Good            | Yes                | Yogi         |          |          |           |                            |                   |

| ATMENIACOTYME                  | HALL ENVIRONMENTAL<br>ANALYSIS LABORATORY | www.hallenvironmental.com | NE - Albuquerque, NM 87109    | 3975 Fax 505-345-4107 | Analysis  |  | <del>3 '</del> †€ | )-J -                                  | , NO.   | tals         | Me A A A A A A A A A A A A A A A A A A A         | RCRA 8                         | X         |                 |   |  |  |   |   |                | please CC:   | shyde Gensalum, com      | a thomson @ensolvin, com                                  |
|--------------------------------|---|---------------------------|-------------------------------|-----------------------|-----------|--|-------------------|--|---|--------------|--|--------------------------------|-----------|-----------------|---|--|--|---|---|----------------|--|--------------------------|---|
|                                | A   | ×                         | 4901 Hawkins NE -             | Tel. 505-345-3975     | LO MARINE |  |                   |  | (1.40   | g po         | etho   | 8081 PG<br>EDB (N              |           |                 | - |  |  | - | + |                | Pleas  | Shild                    | 9+10  |
|                                |   |                           | 4901                          | Tel.                  |           | (0)                                      | AM /              | O5                                     | O / DE  | สอ)          | 12D  | XЭТВ<br>ТРН:80                 | X         | X               |   |  |  |   | + |                | Kemarks:   |                          |   |
| Turn-Around Time: Next - d な 〉 | <u>,</u>                                  | Project Name:             | Horei Ga                      | Project #:            |           | Project Manager:                         | 9777              |  | Sampler: A Thom Son<br>On Ice: The Yes IN You | olers: (     | Cooler Temp(including cip): 0, 1 - 0.15 0.0 (°C) | Container Preservative 2403055 | Cool      | 1007 201        |   |  |  |   |   | Vie. Deta Tima | Keckwed by: $\sqrt{3}$ $\sqrt{3}$ $\sqrt{3}$ $\sqrt{3}$ $\sqrt{3}$ $\sqrt{3}$ $\sqrt{3}$ | Received by: Via: Date T | May harde and course 2/2/24 0800 athorism Bersolving. Com |
| Chain-of-Custody Record        |   |                           | Mailing Address: Knyl Kaskman |                       | e#:       | email or Fax#: KKM of Man @ hilcolp. Com | QA/QC Package:    | ☑ Standard □ Level 4 (Full Validation) | Accreditation:   Az Compliance  NELAC  Other  | □ EDD (Type) |  | Time Matrix Sample Name        | 9:30 50:1 | 9:40 Soil 15513 |   |  |  |   |   |                | 1100 All Thoms 9 p   | Refinquished by:         |   |
|                                | Clien                                     | A++                       | Mailli                        |                       | Phone #:  | emai                                     | QA'Q              | S                                      | Accr  |              |  | Date                           | ~         | 3               |   |  |  |   |   | Ç              | 3~1  | Date:                    | 77/17   |

Report to: Stuart Hyde







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





### envirotech

Practical Solutions for a Better Tomorrow

#### **Analytical Report**

Ensolum, LLC

Project Name: Howell G #2

Work Order: E403048

Job Number: 23003-C-0001

Received: 3/6/2024

Revision: 0

Report Reviewed By:

Draft Walter Hinchman Laboratory Director 3/6/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/6/24

Stuart Hyde 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: Howell G #2

Workorder: E403048

Date Received: 3/6/2024 9:56:00AM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/6/2024 9:56:00AM, under the Project Name: Howell G #2.

The analytical test results summarized in this report with the Project Name: Howell G #2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

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Laboratory Administrator Office: 505-632-1881

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#### **Sample Summary**

| Ensolum, LLC            | Project Name:    | Howell G #2  | Reported:      |
|-------------------------|------------------|--------------|----------------|
| 3122 National Parks Hwy | Project Number:  | 23003-C-0001 | Keporteu:      |
| Carlsbad NM, 88220      | Project Manager: | Stuart Hyde  | 03/06/24 16:32 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| FS13A            | E403048-01A   | Soil   | 03/06/24 | 03/06/24 | Glass Jar, 4 oz. |



#### Sample Data

| Ensolum, LLC            | Project Name:    | Howell G #2  |                    |
|-------------------------|------------------|--------------|--------------------|
| 3122 National Parks Hwy | Project Number:  | 23003-C-0001 | Reported:          |
| Carlsbad NM, 88220      | Project Manager: | Stuart Hyde  | 3/6/2024 4:32:59PM |

#### FS13A E403048-01

| Result | Reporting<br>Limit                              | Dilution   | Prepared   | Analyzed  | Notes   |
|--------|---|--|--|---|---|
| mg/kg  | mg/kg   | Anal   | yst: EG  |   | Batch: 2410063  |
| ND     | 0.0250  | 1  | 03/06/24   | 03/06/24  |   |
| ND     | 0.0250  | 1  | 03/06/24   | 03/06/24  |   |
| ND     | 0.0250  | 1  | 03/06/24   | 03/06/24  |   |
| ND     | 0.0250  | 1  | 03/06/24   | 03/06/24  |   |
| ND     | 0.0500  | 1  | 03/06/24   | 03/06/24  |   |
| ND     | 0.0250  | 1  | 03/06/24   | 03/06/24  |   |
|        | 95.3 %  | 70-130   | 03/06/24   | 03/06/24  |   |
| mg/kg  | mg/kg   | Anal   | yst: EG  |   | Batch: 2410063  |
| ND     | 20.0  | 1  | 03/06/24   | 03/06/24  |   |
|        | 87.2 %  | 70-130   | 03/06/24   | 03/06/24  |   |
| mg/kg  | mg/kg   | Anal   | yst: KM  |   | Batch: 2410067  |
| ND     | 25.0  | 1  | 03/06/24   | 03/06/24  |   |
| ND     | 50.0  | 1  | 03/06/24   | 03/06/24  |   |
|        | 103 %   | 50-200   | 03/06/24   | 03/06/24  |   |
| mg/kg  | mg/kg   | Anal   | yst: DT  |   | Batch: 2410065  |
| ND     | 20.0  | 1  | 03/06/24   | 03/06/24  |   |
|        | mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg | Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0250           87.2 %         mg/kg           mg/kg         mg/kg           ND         25.0           ND         50.0           103 %         mg/kg           mg/kg         mg/kg | mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           mg/kg         mg/kg         Anal           ND         20.0         1           87.2 %         70-130           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           103 %         50-200           mg/kg         mg/kg         Anal | Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: EG           ND         0.0250         1         03/06/24           ND         0.0250         1         03/06/24           ND         0.0250         1         03/06/24           ND         0.0250         1         03/06/24           ND         0.0500         1         03/06/24           ND         0.0250         1         03/06/24           mg/kg         mg/kg         Analyst: EG           ND         20.0         1         03/06/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         03/06/24           ND         25.0         1         03/06/24           ND         50.0         1         03/06/24           ND         50.0         1         03/06/24           ng/kg         mg/kg         Analyst: KM | Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: EG           ND         0.0250         1         03/06/24         03/06/24           ND         0.0500         1         03/06/24         03/06/24           ND         0.0250         1         03/06/24         03/06/24           mg/kg         mg/kg         Analyst: EG           ND         20.0         1         03/06/24         03/06/24           mg/kg         mg/kg         Analyst: EG           ND         20.0         1         03/06/24         03/06/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         03/06/24         03/06/24           ND         50.0         1         03/06/24         03/06/24           ND         50.0         1         03/06/24         03/06/24           ND         50.0         < |



250

811

677

Chloride

Chloride

Chloride

Matrix Spike (2410065-MS1)

Matrix Spike Dup (2410065-MSD1)

#### **QC Summary Data**

| Ensolum, LLC<br>3122 National Parks Hwy<br>Carlsbad NM, 88220 |                 | Project Name:<br>Project Number<br>Project Manage | : 23                    | owell G #2<br>3003-C-0001<br>uart Hyde |          |                    |             |                   | <b>Reported:</b> 3/6/2024 4:32:59PM |
|---|-----------------|---|-------------------------|--|----------|--------------------|-------------|-------------------|-------------------------------------|
|   |                 | Anions  | by EPA 3                | 00.0/9056 <i>A</i>                     | 4        |                    |             |                   | Analyst: DT                         |
| Analyte   | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg                       | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg              | Rec<br>% | Rec<br>Limits<br>% | RPD<br>%    | RPD<br>Limit<br>% | Notes                               |
| Blank (2410065-BLK1)  |                 |   |                         |  |          | F                  | Prepared: 0 | 3/06/24 A         | Analyzed: 03/06/24                  |
| Chloride  | ND              | 20.0  |                         |  |          |                    |             |                   |                                     |
| LCS (2410065-BS1)   |                 |   |                         |  |          | P                  | Prepared: 0 | 3/06/24 A         | Analyzed: 03/06/24                  |

250

250

250

20.0

20.0

20.0

90-110

80-120

80-120

18.0

Prepared: 03/06/24 Analyzed: 03/06/24

Prepared: 03/06/24 Analyzed: 03/06/24

20

M2

100

129

75.7

Source: E403043-04

Source: E403043-04

488

| QC Summary Re | port Comment: |
|---------------|---------------|

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



#### **Definitions and Notes**

|   | Ensolum, LLC            | Project Name:    | Howell G #2  |                |
|---|-------------------------|------------------|--------------|----------------|
| ١ | 3122 National Parks Hwy | Project Number:  | 23003-C-0001 | Reported:      |
| ١ | Carlsbad NM, 88220      | Project Manager: | Stuart Hyde  | 03/06/24 16:32 |

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



#### **CHAIN OF CUSTODY RECORD**

16227

| Ensolum ( Email results to: Shyde D Cdapont: Densolum Client Phone No.: | 10        | Pro       | oject Name / Location | on:<br>G H 2           |         |                  |         |        |                   |                    |                   |               | А              | NALY  | /SIS          | / PAF          | RAME        | ETER     | S     |      |             |               |
|---|-----------|-----------|-----------------------|------------------------|---------|------------------|---------|--------|-------------------|--------------------|-------------------|---------------|----------------|-------|---------------|----------------|-------------|----------|-------|------|-------------|---------------|
| Email results to: Shude D   | and him   | / Sa      | mpler Name:/          | ca                     | 1       |                  | 1000    |        |                   | =                  |                   |               |                |       |               |                |             |          |       |      |             |               |
| ada a via a d   | Ch Solom  | 12015     | 0/1/20                | Lit                    |         |                  |         |        | 115)              | 802                | 260               |               |                |       |               |                |             |          |       |      |             |               |
| Client Phone No:  | n. Com    | Cli       | ant No:               | sonc,                  |         |                  |         |        | d 80              | pol                | 8 pc              | tals          | uo             |       | 4/P           | 10-1           |             |          |       |      | =           | l t           |
| 970-903-16  | 07        | 2         | 3003-6-0              | 100                    |         |                  |         |        | TPH (Method 8015) | BTEX (Method 8021) | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion |       | TCLP with H/P | CO Table 910-1 | TPH (418.1) | IDE      |       |      | Sample Cool | Inta          |
| 110-103-16  | Sample    | Sample    |                       |                        |         | Pr               | eservat | ive    | Š                 | ×                  | 3                 | 3A 8          | on /           |       | P             | Tabl           | (41         | OR       |       |      | ple         | ple           |
| Sample No./ Identification  | Date      | Time      | Lab No.               | No./Volume of Containe | e<br>rs | HNO <sub>3</sub> |         |        | THE T             | BTE                | 00                | RCF           | Cati           | RCI   | TCL           | 00             | TP          | CHLORIDE |       |      | Sar         | Sample Intact |
| FS13A   | 3/1/24    | 830       | E403048-01            | 1402 50.               | ,       |                  |         | 00     | V                 | V                  |                   |               |                |       |               |                |             | V        |       |      | /           | /             |
|   |           |           |                       |                        |         |                  |         |        |                   |                    |                   |               |                |       |               |                |             |          |       |      |             |               |
|   |           |           |                       |                        |         |                  |         |        |                   |                    |                   |               |                |       |               |                |             |          |       |      |             |               |
|   |           |           |                       |                        |         |                  |         |        |                   |                    |                   |               |                | 277.9 |               |                |             | 100      |       | W.   |             |               |
|   |           |           |                       |                        |         |                  |         |        |                   | 外                  |                   | A di          |                |       |               |                |             |          |       |      | i,          |               |
|   |           |           |                       | - 94                   |         |                  |         |        |                   |                    |                   |               |                |       |               |                |             | 1        |       |      |             |               |
|   |           |           | W. Tale               |                        | 10.     |                  |         |        |                   |                    |                   |               |                |       |               |                |             |          |       |      |             |               |
|   |           |           |                       |                        |         |                  |         |        |                   |                    |                   |               |                |       |               |                |             |          |       |      |             |               |
|   |           | Les de la |                       |                        |         |                  | 1       |        |                   |                    |                   |               | up al          |       |               |                |             |          |       |      |             |               |
|   | ,         | 1         |                       |                        |         |                  |         |        |                   |                    |                   |               |                |       |               |                |             |          |       |      |             |               |
| Relinquished by: (Signature)  | 1/1/      | 7         |                       | Date Tim               | e       | Recei            | ved b   | y: (S  | ignat             | ure)               |                   |               |                |       |               |                |             |          |       | Date |             | ime           |
| (3/2)   | SAT       | >         |                       | 16/20/95               | 0       | 0                | ne      | n      | 2003              |                    |                   |               |                |       |               |                | Sin         |          |       | 36/4 | 9           | :54           |
| Relinquished by: (Signature)  | V         |           |                       |                        |         | Recei            | ved t   | by: (S | ignat             | ure)               |                   |               |                |       |               |                |             |          |       |      |             |               |
| Sample Matrix   |           |           |                       |                        |         |                  |         |        |                   |                    | 1.4               |               |                |       | 60            |                |             |          |       |      |             |               |
| Soil Solid Sludge   | Aqueous [ | Other [   |                       | 1 5 Year               |         |                  |         |        |                   |                    | nui ,             |               |                |       |               |                |             |          | 18 30 |      |             |               |
| Sample(s) dropped off afte  |           |           | ff area.              | 3 en                   | V       | irc              | ot      | e      | cł                | 1                  | sa                | Temp          | empleon        | p -   | -8<br>ce      | .9             | C           | N        | 3/0   | 6/24 |             |               |

5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 45 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

Printed: 3/6/2024 11:10:36AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If

| Client: Ensolum, LLC Date F  | Received: | 03/06/24 | 10:04               |         | Work Order ID: | E403048         |
|--|-----------|----------|---------------------|---------|----------------|-----------------|
| Phone: (575) 988-0055 Date I   | ogged In: | 03/06/24 | 10:04               |         | Logged In By:  | Angelina Pineda |
| Email: shyde@ensolum.com Due D   | ate:      | 03/06/24 | 17:00 (0 day TAT)   |         |                |                 |
| Chain of Custody (COC)   |           |          |                     |         |                |                 |
| 1. Does the sample ID match the COC?   |           | Yes      |                     |         |                |                 |
| 2. Does the number of samples per sampling site location match the   | COC       | Yes      |                     |         |                |                 |
| 3. Were samples dropped off by client or carrier?  |           | Yes      | Carrier: Chad       | l Ponti |                |                 |
| 4. Was the COC complete, i.e., signatures, dates/times, requested and  | alyses?   | Yes      |                     |         |                |                 |
| <ol> <li>Were all samples received within holding time?         Note: Analysis, such as pH which should be conducted in the fie i.e, 15 minute hold time, are not included in this disucssion.     </li> </ol>                             | ld,       | Yes      |                     |         | Commen         | ts/Resolution   |
| Sample Turn Around Time (TAT)  |           |          |                     |         |                |                 |
| 6. Did the COC indicate standard TAT, or Expedited TAT?  |           | Yes      |                     |         |                |                 |
| Sample Cooler  |           |          |                     |         |                |                 |
| 7. Was a sample cooler received?   |           | No       |                     |         |                |                 |
| 8. If yes, was cooler received in good condition?  |           | NA       |                     |         |                |                 |
| 9. Was the sample(s) received intact, i.e., not broken?  |           | Yes      |                     |         |                |                 |
| 10. Were custody/security seals present?   |           | No       | ·                   |         |                |                 |
| 11. If yes, were custody/security seals intact?  |           |          |                     |         |                |                 |
|  | 200       | NA       |                     |         |                |                 |
| 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°3 Note: Thermal preservation is not required, if samples are received minutes of sampling 13. If no visible ice, record the temperature. Actual sample tempe | ed w/i 15 | No<br>C  |                     |         |                |                 |
| Sample Container   | <u></u>   | _        |                     |         |                |                 |
| 14. Are aqueous VOC samples present?   |           | No       |                     |         |                |                 |
| 15. Are VOC samples collected in VOA Vials?  |           | NA       |                     |         |                |                 |
| 16. Is the head space less than 6-8 mm (pea sized or less)?  |           | NA       |                     |         |                |                 |
| 17. Was a trip blank (TB) included for VOC analyses?   | ,         | NA       |                     |         |                |                 |
| · · · · · · · · · · · · · · · · · · ·  |           | Yes      | ì                   |         |                |                 |
| 18. Are non-VOC samples collected in the correct containers?   | lastad?   |          | İ                   |         |                |                 |
| 19. Is the appropriate volume/weight or number of sample containers col  | iecieu?   | Yes      |                     |         |                |                 |
| Field Label  |           |          |                     |         |                |                 |
| 20. Were field sample labels filled out with the minimum informatio<br>Sample ID?  | n;        | Yes      | <b>,</b>            |         |                |                 |
| Date/Time Collected?   |           | Yes      | <u></u>             |         |                |                 |
| Collectors name?   |           | Yes      |                     |         |                |                 |
| Sample Preservation  |           |          |                     |         |                |                 |
| 21. Does the COC or field labels indicate the samples were preserved   | i?        | No       |                     |         |                |                 |
| 22. Are sample(s) correctly preserved?   |           | NA       |                     |         |                |                 |
| 24. Is lab filteration required and/or requested for dissolved metals?   |           | No       |                     |         |                |                 |
| Multiphase Sample Matrix   |           |          |                     |         |                |                 |
| 26. Does the sample have more than one phase, i.e., multiphase?  |           | No       |                     |         |                |                 |
| 27. If yes, does the COC specify which phase(s) is to be analyzed?   |           | NA       |                     |         |                |                 |
|  |           | 141/     |                     |         |                |                 |
| Subcontract Laboratory   |           |          |                     |         |                |                 |
| 28. Are samples required to get sent to a subcontract laboratory?  | _         | No       |                     | _       |                |                 |
| 29. Was a subcontract laboratory specified by the client and if so who   | 0?        | NA       | Subcontract Lab: NA | 4       |                |                 |
| Client Instruction   |           |          |                     |         |                |                 |

<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 333707

#### **QUESTIONS**

| Operator:              | OGRID:  |
|------------------------|---|
| HILCORP ENERGY COMPANY | 372171  |
| 1111 Travis Street     | Action Number:  |
| Houston, TX 77002      | 333707  |
|                        | Action Type:  |
|                        | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

| Prerequisites    |   |
|------------------|---|
| Incident ID (n#) | nAPP2402238689                            |
| Incident Name    | NAPP2402238689 HOWELL G #2 @ 30-045-60190 |
| Incident Type    | Release Other                             |
| Incident Status  | Remediation Closure Report Received       |
| Incident Well    | [30-045-60190] HOWELL G #002              |

| Location of Release Source                     |             |  |  |  |  |  |  |  |
|--|-------------|--|--|--|--|--|--|--|
| Please answer all the questions in this group. |             |  |  |  |  |  |  |  |
| Site Name                                      | Howell G #2 |  |  |  |  |  |  |  |
| Date Release Discovered                        | 01/17/2024  |  |  |  |  |  |  |  |
| 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: Equipment Failure   Tank (Any)   Crude Oil   Released: 21 BBL   Recovered: 0 BBL   Lost: 21 BBL.      |  |
| Produced Water Released (bbls) Details   | Cause: Equipment Failure   Tank (Any)   Produced Water   Released: 12 BBL   Recovered: 0 BBL   Lost: 12 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)                                 | Not answered.  |  |

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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 333707

| 1220 S. St Francis Dr., Santa Fe, NM 87505<br>Phone: (505) 476-3470 Fax: (505) 476-3462  |  |  |
|--|--|--|
| QUEST  | IONS (continued)   |  |
| Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002  | OGRID:   |  |
| QUESTIONS  | [5]  |  |
| Nature and Volume of Release (continued)   |  |  |
| Is this a gas only submission (i.e. only significant Mcf values reported)  | No, according to supplied volumes this does not appear to be a "gas only" report.  |  |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC   | Yes  |  |
| Reasons why this would be considered a submission for a notification of a major release  | From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.  |  |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.   | e. gas only) are to be submitted on the C-129 form.  |  |
| Initial Response   |  |  |
| The responsible party must undertake the following actions immediately unless they could create a  |  |  |
| 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.  |  |
|  | liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o<br>sted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of<br>evaluation in the follow-up C-141 submission.  |  |
| to report and/or file certain release notifications and perform corrective actions for rele<br>the 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 ases 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 rt 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: Kate Kaufman<br>Title: Sr Environmental Specialist<br>Email: kkaufman@hilcorp.com  |  |

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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 333707

#### **QUESTIONS** (continued)

| Operator:              | OGRID:  |
|------------------------|---|
| HILCORP ENERGY COMPANY | 372171  |
| 1111 Travis Street     | Action Number:  |
| Houston, TX 77002      | 333707  |
|                        | Action Type:  |
|                        | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

| Site Characterization   |                           |  |
|---|---------------------------|--|
| Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date. |                           |  |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)  | Between 100 and 500 (ft.) |  |
| What method was used to determine the depth to ground water   | Attached Document         |  |
| Did this release impact groundwater or surface water  | No                        |  |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas:   |                           |  |
| A continuously flowing watercourse or any other significant watercourse   | Between 200 and 300 (ft.) |  |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)   | Greater than 5 (mi.)      |  |
| An occupied permanent residence, school, hospital, institution, or church   | Greater than 5 (mi.)      |  |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes   | Greater than 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   | Greater than 5 (mi.)      |  |
| A subsurface mine   | Greater than 5 (mi.)      |  |
| An (non-karst) unstable area  | Greater than 5 (mi.)      |  |
| Categorize the risk of this well / site being in a karst geology  | None                      |  |
| A 100-year floodplain   | Greater than 5 (mi.)      |  |
| Did the release impact areas not on an exploration, development, production, or storage site  | No                        |  |

| Remediation Plan   |  |
|--|--|
| Please answer all the questions that apply or are indicated. This information must be provide  | ded to the appropriate district office no later than 90 days after the release discovery date.                           |
| Requesting a remediation plan approval with this submission  | Yes  |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contam  | nination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.            |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes  |
| Was this release entirely contained within a lined containment area  | No   |
| Soil Contamination Sampling: (Provide the highest observable value for each,   | in milligrams per kilograms.)  |
| Chloride (EPA 300.0 or SM4500 Cl B)  | 0  |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)  | 36   |
| GRO+DRO (EPA SW-846 Method 8015M)  | 36   |
| BTEX (EPA SW-846 Method 8021B or 8260B)  | 0  |
| Benzene (EPA SW-846 Method 8021B or 8260B)   | 0  |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes com which includes the anticipated timelines for beginning and completing the remediation. | mpleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, |
| On what estimated date will the remediation commence   | 02/22/2024   |
| On what date will (or did) the final sampling or liner inspection occur  | 02/22/2024   |
| On what date will (or was) the remediation complete(d)   | 03/06/2024   |
| What is the estimated surface area (in square feet) that will be reclaimed   | 0  |
| What is the estimated volume (in cubic yards) that will be reclaimed   | 0  |
| What is the estimated surface area (in square feet) that will be remediated  | 2300   |
| What is the estimated volume (in cubic yards) that will be remediated  | 150  |
| These estimated dates and measurements are recognized to be the best guess or calculation  | n at the time of submission and may (be) change(d) over time as more remediation efforts are completed.                  |
| The OCD recognizes that proposed remediation measures may have to be minimally adjuste   | ted 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

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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 4

Action 333707

**QUESTIONS** (continued)

| Operator:              | OGRID:  |
|------------------------|---|
| HILCORP ENERGY COMPANY | 372171  |
| 1111 Travis Street     | Action Number:  |
| Houston, TX 77002      | 333707  |
|                        | Action Type:  |
|                        | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### 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 [fSC0000000048] |  |
| 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.              |  |
| <b>OR</b> is the <b>off-site</b> 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: Kate Kaufman Title: Sr Environmental Specialist

Email: kkaufman@hilcorp.com

Date: 04/16/2024

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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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 5

Action 333707

**QUESTIONS** (continued)

| Operator:              | OGRID:  |
|------------------------|---|
| HILCORP ENERGY COMPANY | 372171  |
| 1111 Travis Street     | Action Number:  |
| Houston, TX 77002      | 333707  |
|                        | Action Type:  |
|                        | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### 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 submission   | No |  |

**District I** 

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

QUESTIONS, Page 6

Action 333707

| OI | <b>JEST</b> | TONS  | (continued)                | ١ |
|----|-------------|-------|----------------------------|---|
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| Operator:              | OGRID:  |
|------------------------|---|
| HILCORP ENERGY COMPANY | 372171  |
| 1111 Travis Street     | Action Number:  |
| Houston, TX 77002      | 333707  |
|                        | Action Type:  |
|                        | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

| Sampling Event Information  |            |
|---|------------|
| Last sampling notification (C-141N) recorded  | 320301     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 03/06/2024 |
| What was the (estimated) number of samples that were to be gathered                             | 1          |
| What was the sampling surface area in square feet   | 200        |

| Remediation Closure Request  |   |  |
|--|---|--|
| Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.   |   |  |
| Requesting a remediation closure approval with this submission   | Yes   |  |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes   |  |
| Was this release entirely contained within a lined containment area  | No  |  |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion   | Yes   |  |
| What was the total surface area (in square feet) remediated  | 2300  |  |
| What was the total volume (cubic yards) remediated   | 150   |  |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes   |  |
| What was the total surface area (in square feet) reclaimed   | 2300  |  |
| What was the total volume (in cubic yards) reclaimed   | 150   |  |
| Summarize any additional remediation activities not included by answers (above)  | Site remediation was achieved via dig and haul of impacted soil for offsite disposal. |  |

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Sr Environmental Specialist
Email: kkaufman@hilcorp.com
Date: 04/16/2024

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QUESTIONS, Page 7

Action 333707

**QUESTIONS** (continued)

| Operator:              | OGRID:  |
|------------------------|---|
| HILCORP ENERGY COMPANY | 372171  |
| 1111 Travis Street     | Action Number:  |
| Houston, TX 77002      | 333707  |
|                        | Action Type:  |
|                        | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

| Reclamation Report  |    |
|---|----|
| Only answer the questions in this group if all reclamation steps have been completed. |    |
| Requesting a reclamation approval with this submission                                | No |

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CONDITIONS

Action 333707

#### **CONDITIONS**

| Operator:              | OGRID:  |
|------------------------|---|
| HILCORP ENERGY COMPANY | 372171  |
| 1111 Travis Street     | Action Number:  |
| Houston, TX 77002      | 333707  |
|                        | Action Type:  |
|                        | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### CONDITIONS

| Created<br>By |      | Condition<br>Date |
|---------------|------|-------------------|
| nvelez        | None | 5/13/2024         |