1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by April 15, 2025.

January 9, 2025

New Mexico Oil Conservation Division

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

2024 Fourth Quarter – Remediation System Operation and Monitoring Report Re:

San Juan County, New Mexico Hilcorp Energy Company

NMOCD Incident No: NRM2020945060

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this 2024 Fourth Quarter - Remediation System Operation and Monitoring Report summarizing remediation system performance during the fourth quarter of 2024 at the Hare 15 natural gas production well (Site, Figure 1) on land managed by the Bureau of Lan Management (BLM). The Site is located in Unit M, Section 3, Township 29 North, Range 10 West in San Juan County, New Mexico (Figure 1). The duration of operation and monitoring activities included in this report is for the period from September 30 through December 30, 2024.

This report was prepared following the approval from the New Mexico Oil Conservation Division (NMOCD) regarding the dual-phase extraction (DPE) remediation system described in the Dual-Phase Extraction (DPE) Pilot Test Report and Final Remediation Work Plan prepared by Ensolum and submitted to the NMOCD in April 2023. Per the conditions of approval (COAs) issued by the NMOCD on May 19, 2023, this report includes the following information:

- A summary of remediation activities during the quarter;
- The system run time summary;
- Total system flow and vacuum measurements;
- Individual well flow rates, photoionization detector (PID) measurements of volatile organic compounds (VOCs), vacuum measurements, and oxygen/carbon dioxide measurements via hand-held analyzers;
- The petroleum mass removal and fluid product recovery from the remediation system.

As approved in the Dual-Phase Extraction (DPE) Pilot Test Report and Final Remediation Work Plan, groundwater sampling is being conducted semi-annually beginning in 2024. This guarterly remediation summary report also includes data and summaries from semi-annual groundwater sampling events conducted at the Site during every other reporting period.

REMEDIATION SYSTEM DESCRIPTION

The remediation system at the Site includes a DPE system which uses a rotary lobe positive displacement blower to apply vacuum to ten remediation wells (MW01, MW06, MW08, MW09, MW10, MW11, MW13, MW14, MW15, and MW16) that are connected to the blower via subsurface piping. The extracted air, petroleum vapors, and fluids enter a vapor/liquid separator

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or "knockout" tank. Air and petroleum vapors are passed through the high vacuum extraction blower and discharged to the atmosphere via an exhaust stack. Separated liquid, which includes phase separated hydrocarbons (PSH) and potentially dissolved phase impacted groundwater, is pumped to an aboveground storage tank for storage and off-site disposal. The system layout is depicted on Figure 2.

FOURTH QUARTER 2024 OPERATION AND MAINTENANCE

Field data measurements were collected from the system weekly throughout the fourth quarter of 2024 except for the month of November where only three Site visits were conducted. Regular operations and maintenance (O&M) activities have been performed throughout the fourth quarter of 2024. Field forms completed during O&M visits are presented in Appendix A.

Since startup on August 13, 2024, all Site DPE wells were operated in order to recover PSH, draw down the groundwater table, and induce air flow in impacted soil zones. Between September 30 and December 30, 2024, the DPE system operated for 2,036 hours for a runtime efficiency of 93 percent (%). Appendix B presents photographs of the runtime meter for calculating the fourth quarter 2024 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percent runtime. Field measurements collected during O&M events are summarized in Table 2.

Vapor Recovery

Per the May 2023 COAs, influent vapor samples were collected from the DPE system bi-weekly (twice a month) throughout the fourth quarter of 2024. Influent vapor samples were collected on October 1, October 16, November 15, November 27, December 5, and December 30, 2024, using a high vacuum air sampling pump on the system inlet, after the manifold assembly, but prior to the liquid knockout tank. Samples were collected into 1-Liter Tedlar® bags and submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for analysis of VOCs following United States Environmental Protection Agency (EPA) Method 8260B, total petroleum hydrocarbons (TPH) following EPA Method 8015D, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. A summary of laboratory analytical results are summarized in Table 3, with complete laboratory analytical reports attached as Appendix C. Graphs 1 and 2 also present oxygen and carbon dioxide levels over time, respectively. Per the May 2023 COAs, influent vapor samples will be collected bi-monthly (every other month) during the first quarter of 2025 and for the remainder of the first year of system operation.

Vapor sample data and measured influent flow rates are used to estimate total mass recovered and total emissions generated by the DPE system (Table 4). Based on these estimates, 4,557 pounds (2.3 tons) of vapor phase TPH have been removed by the system to date. Please note that an error was identified in the Delta Hours calculation in the Table 4 submitted in the third quarter 2024 report and has since been corrected.

Liquid Recovery

Total liquid recovery volumes are measured using a totalizing flow metering device. During the initial O&M field visit in August of 2024, it was determined that a liquid totalizer was not installed between the transfer pump and storage tank by the fabricator. A totalizer was installed on August 20, 2024; therefore, liquid recovery totals presented in this, and future reports will not include data between August 13 and August 20, 2024.

Since totalizer installation on August 20, 2024, through December 30, 2024, approximately 38,398 gallons of liquid have been recovered. The impacted groundwater and recovered PSH are



emulsified and homogenously commingled enough during extraction that product thickness is unmeasurable in the liquid recovery tank. Therefore, the estimated volume of PSH recovered is not measurable and not reported. During December 2024, it was determined that the totalizer was no longer functioning correctly and was not recording accurate volumes. The totalizer will be repaired or replaced in the first quarter of 2025. Liquid recovery is summarized in Table 5.

GROUNDWATER MONITORING

Since September 2020, groundwater gauging and sampling activities have been conducted at the Site. This report summarizes the fourth quarter of 2024 semi-annual groundwater sampling activities and data collected during the monitoring event.

Fluid Level Measurements

Prior to purging and sampling, static depth to groundwater and total depth of each monitoring well was measured using an oil/water interface probe. Depth to PSH was also recorded when present and a correction factor of 0.8 was applied to the calculated groundwater elevation to account for the depression of the water column caused by the presence of overlying PSH. The interface probe was decontaminated with Alconox® soap and rinsed with distilled water prior to each measurement to prevent cross contamination. Depth to groundwater, depth to PSH, and calculated groundwater elevations are summarized in Table 6. During the fourth quarter of 2024, PSH was detected in six monitoring wells (MW03, MW04A, MW07, MW13, MW15, and MW16). Potentiometric surface maps were drafted with groundwater elevations and PSH thickness measured during the fourth quarter 2024 quarterly monitoring event (Figure 3).

Groundwater Sampling Activities and Analytical Results

Groundwater samples were collected for laboratory analysis from monitoring wells containing sufficient water to sample and that did not contain measurable PSH. Disposable polyvinyl chloride (PVC) bailers were used to collect groundwater samples due to limited water volume within several of the monitoring wells. Prior to collecting groundwater samples, Hilcorp purged a minimum of three casing volumes or until the well was bailed dry to ensure water from the adjacent formation, representative of actual aquifer conditions, was sampled. If a well was purged dry, the well was allowed to recharge before samples were collected. Water quality parameters including pH, electrical conductivity, and temperature were measured in each well using a multi-probe water quality field meter during purging.

Groundwater samples were collected into laboratory provided sample bottles and immediately placed on ice for preservation. Samples were submitted to Hall Environmental Analysis Laboratory (Hall) and/or Eurofins (formerly Hall) for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX). A summary of groundwater analytical results is presented in Table 7. During the fourth quarter of 2024, benzene concentrations exceeded the New Mexico Water Quality Conservation Commission (NMWQCC) standards at four locations (MW22, MW20, MW26, and MW30). The groundwater analytical results from the fourth quarter of 2024 are depicted on Figure 4, with complete laboratory analytical reports attached as Appendix D.

PSH Recovery

Beginning in September of 2020, PSH was manually recovered from monitoring wells using a disposable bailer through the second quarter of 2024. During each PSH recovery event, the thickness of product within the well and total volume removed was recorded. Table 8 presents the total volume recovered from each well at the Site during these recovery events. Through the



second quarter of 2024, approximately 7.62 gallons of PSH were recovered manually from the Site. Manual PSH recovery no longer occurs at the Site while the DPE system is operational as PSH is being recovered from the extraction wells continuously during system operation.

DISCUSSIONS AND RECOMMENDATIONS

Bi-weekly (every other week) to monthly O&M visits and bi-monthly (every other month) sampling events will be performed by Ensolum and/or Hilcorp personnel to ensure the DPE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following quarterly report. Semi-annual groundwater sampling events will continue to be conducted in the second and fourth quarters of the year.

Reporting

Updated remediation reports will be prepared and submitted to the NMOCD on a quarterly basis within 15 days following the end of the quarter and will contain the following:

- A summary of remediation and monitoring activities during the period;
- System run-time summary;
- Petroleum hydrocarbon mass removal and fluid recovery from the remediation system;
- DPE volume liquid removal; and
- Groundwater monitoring results, when applicable.

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

Sincerely, **Ensolum**, **LLC**

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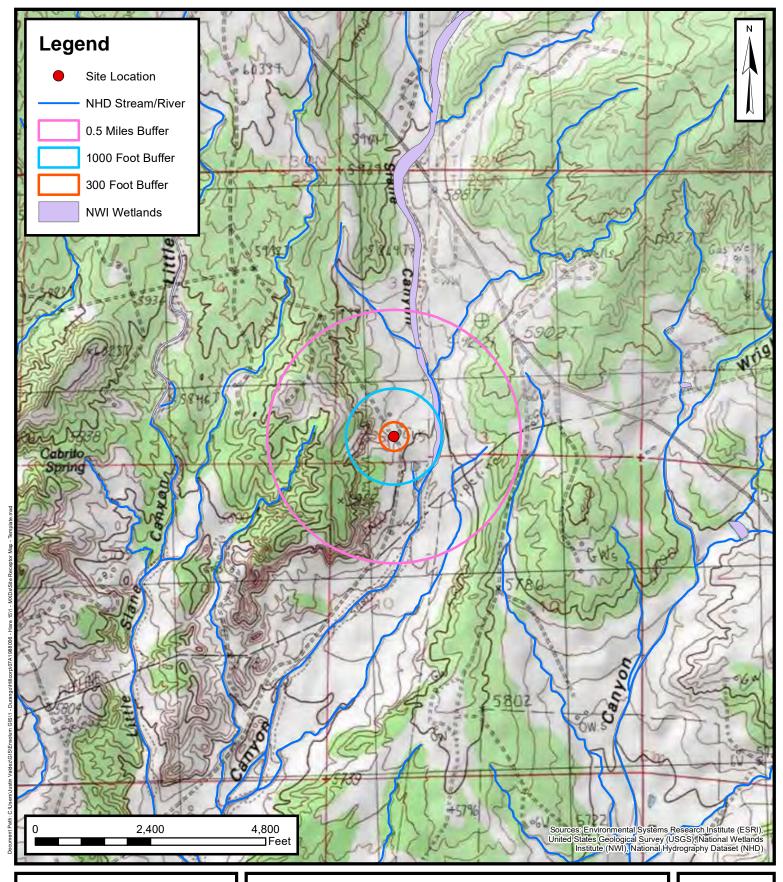
Attachments:

Figure 1 Figure 2 Figure 3 Figure 4	Site Location Map Dual Phase Extraction System Layout Groundwater Elevation Map – Q4 2024 Groundwater Analytical Results – Q4 2024
Table 1 Table 2 Table 3 Table 4 Table 5 Table 6 Table 7 Table 8	Dual Phase Extraction System Runtime Calculations Dual Phase Extraction System Field Measurements Dual Phase Extraction System Emissions Analytical Results Dual Phase Extraction System Mass Removal and Emissions Liquid Recovery Groundwater Elevation Groundwater Analytical Results PSH Recovery Summary
Graph 1 Graph 2	O_2 vs. Time CO_2 vs. Time
Appendix A Appendix B Appendix C Appendix D	O&M Field Notes Project Photographs DPE Laboratory Analytical Reports Groundwater Laboratory Analytical Reports





Figures





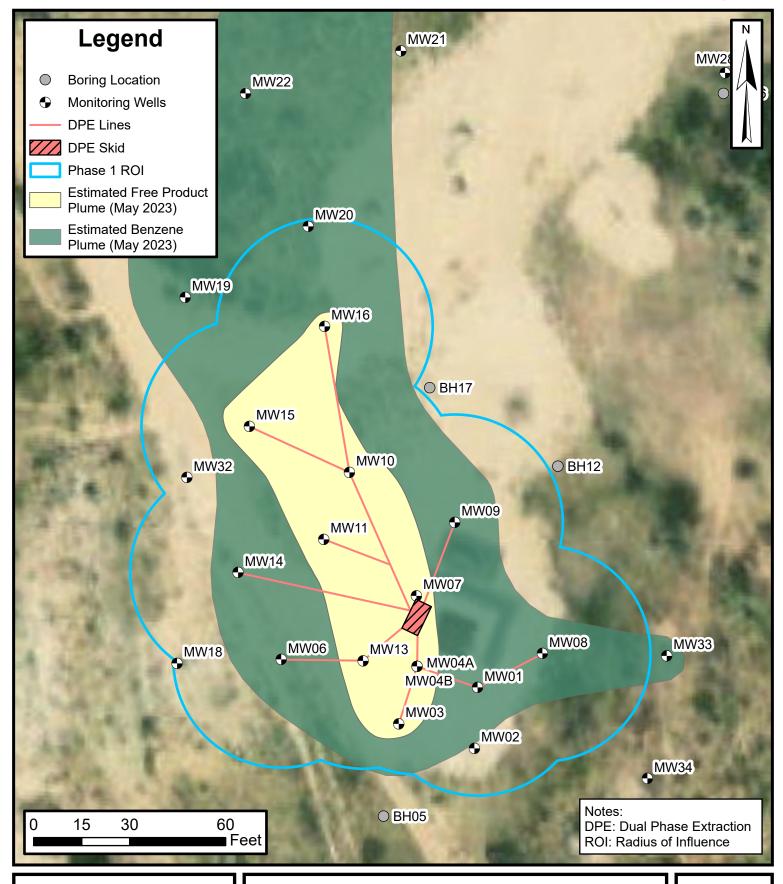
Site Receptor Map

Hare 15 Hilcorp Energy Company 36.749188, -107.877461 San Juan County, NM

PROJECT NUMBER: 07A1988006

FIGURE

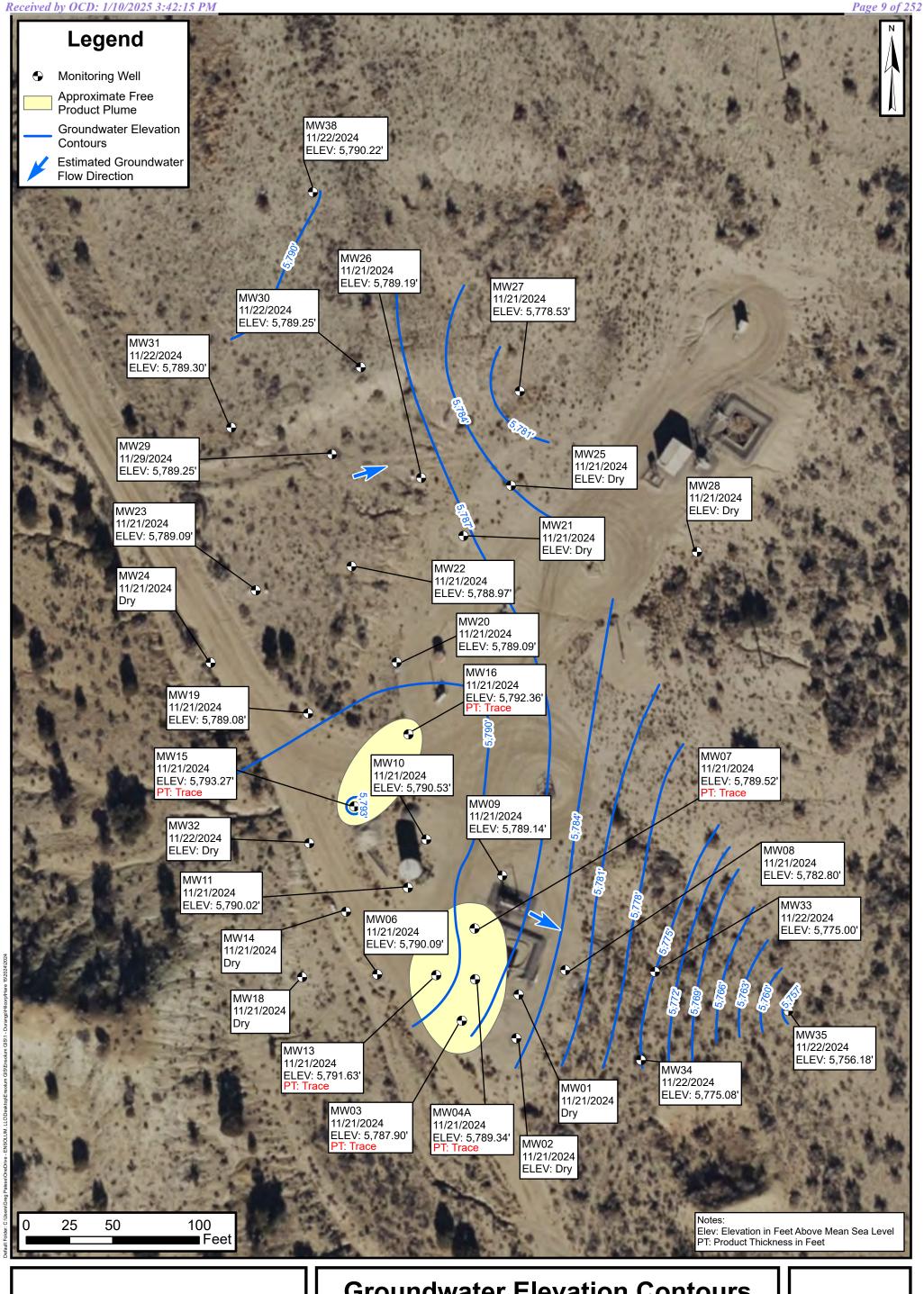
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Dual Phase Extraction System

Hare 15 Hilcorp Energy Company SW/SW, Sec 3, T29N, R10W 36.749188, -107.877461 San Juan County, New Mexico FIGURE 2



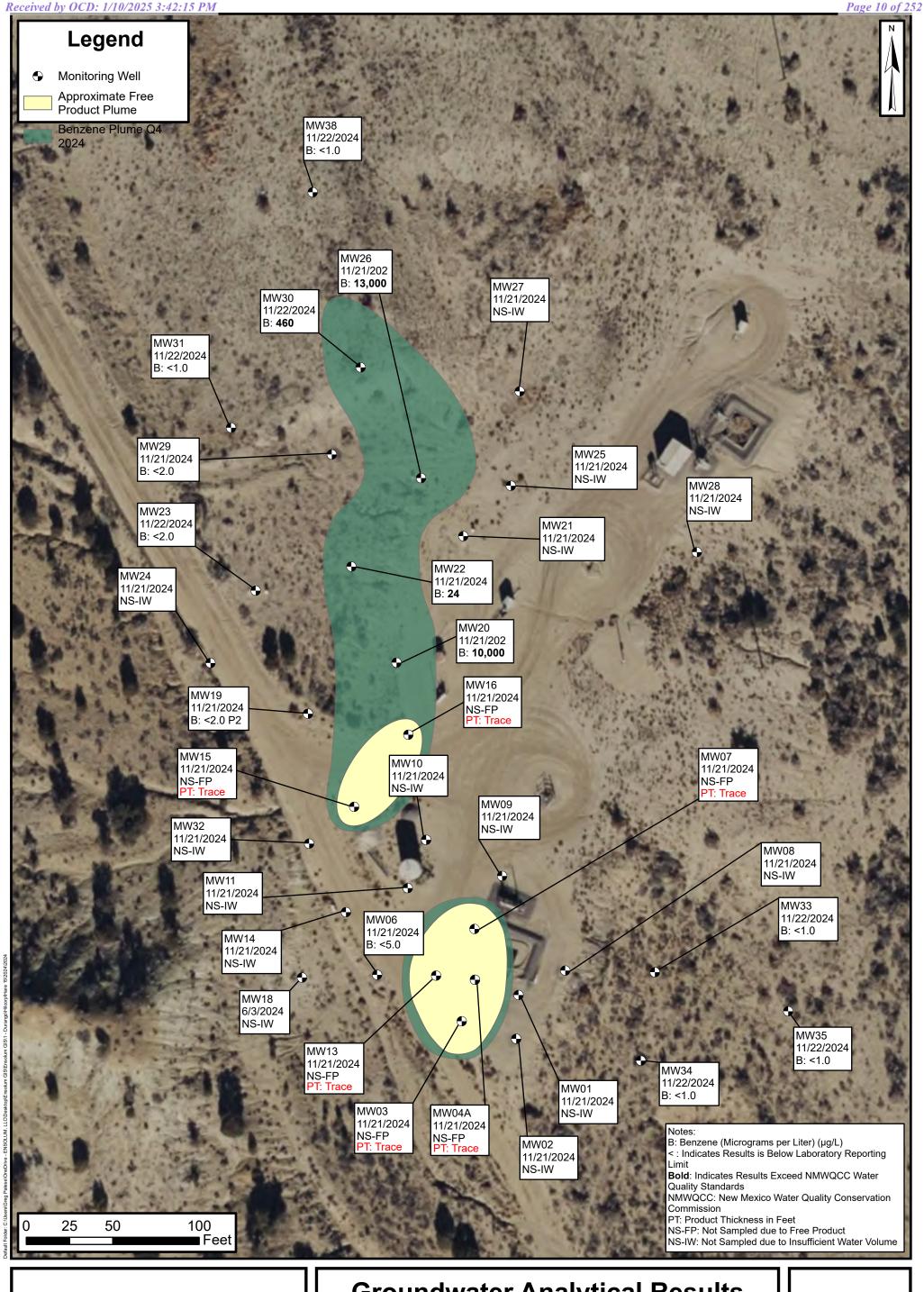


Groundwater Elevation Contours November 2024

Hare 15 Hilcorp Energy Company

SW/SW, Sec 3, T29N, R10W 36.749188, -107.877461 San Juan County, New Mexico FIGURE

3





Groundwater Analytical Results November 2024

Hare 15 Hilcorp Energy Company

SW/SW, Sec 3, T29N, R10W 36.749188, -107.877461 San Juan County, New Mexico FIGURE

4



Tables & Graphs



TABLE 1 DUAL PHASE EXTRACTION SYSTEM RUNTIME CALCULATIONS Hare 15

Hilcorp Energy Company San Juan County, New Mexico

Date/Time of Reading	System Hour Runtime	Run Time (%)	Cumulative Run Time (%)	Notes
8/13/2024	4	STAF	RT UP	
9/30/2024	1,014	36%	88%	
10/1/2024	1,031	72%	87%	
10/2/2024	1,056	102%	88%	
10/10/2024	1,247	100%	89%	
10/16/2024	1,391	100%	90%	
10/23/2024	NR			
11/6/2024	1,880	97%	92%	
11/14/2024	2,070	99%	93%	
11/27/2024	2,333	90%	92%	
12/5/2024	2,523	99%	92%	
12/11/2024	2,605	57%	90%	
12/18/2024	2,774	100%	91%	
12/30/2024	3,050	96%	91%	
	4th Qrt 24 Runtime% 93%			

Notes:

%: percent

Dashed line indicates quarter change

--: not applicable/not collected

NR: Not Recorded

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TABLE 2 DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS Hare 15 Hilcorp Energy Company San Juan County, New Mexico PID Flow Rate Carbon Dioxide SVE Well ID Flow Rate (acfm) Vacuum (IHG) Vacuum (psi) Oxygen (%) Date (ppm) (scfm)⁽¹⁾ (%) 8/13/2024 1.572 127 8.0 3.93 12.7 >5.0 221 221 3.52 8/14/2024 1.915 127 8.0 3.93 16.5 8/15/2024 1,372 259 142 9.0 4.42 20.4 0.96 8/16/2024 1.277 247 139 8.5 4.17 20.4 0.94 8/21/2024 1 838 247 120 11.5 5 65 20.1 0.94 8/28/2024 2,020 259 136 10.0 4.91 20.9 0.00 495 300 157 10.0 0.34 9/4/2024 4.91 20.4 9/11/2024 691 300 157 10.0 4 91 20.9 0.34 9/19/2024 1,004 300 149 11.0 5.40 20.2 0.26 9/25/2024 421 300 149 11.0 5.40 18.8 0.26 Influent, All Wells 10/1/2024 435 300 169 8.5 4.17 10/16/2024 389 325 204 6.0 2.95 19.8 0.22 10/23/2024 129 250 144 3.93 20.9 0.08 11/6/2024 8.0 11/14/2024 360 202 8.5 4.17 11/27/2024 378 280 139 11.0 5.40 19.9 12/5/2024 276 280 143 10.5 5 16 20.9 0.03 12/11/2024 184 300 153 10.5 5.16 12/18/2024 169 112 10.5 20.8 0.14 220 5.16 12/30/2024 281 275 129 12 0 5 89 20.9 0.19 736 38 3.19 >5.00 8/14/2024 1,515 60 39 5.0 2.46 18.5 1.78 8/15/2024 2,298 68 44 5.0 2.46 20.4 0.64 8/16/2024 1,454 64 42 5.0 2.46 20.4 0.60 8/21/2024 1,270 76 42 9.0 4.42 20.6 0.36 8/28/2024 2.601 70 43 6.5 3.19 20.1 0.72 9/4/2024 344 45 29 5.0 2.46 20.4 0.20 9/11/2024 211 45 30 4.5 2.21 20.8 0.24 9/19/2024 201 28 18 6.0 2.95 20.2 0.22 9/25/2024 92 50 31 6.0 2.95 19.0 0.18 MW01 10/1/2024 326 66 41 2.95 6.0 19 9 0.16 10/16/2024 41 54 35 5.0 2 46 10/23/2024 66 7.0 3.44 21.4 0.02 48 29 6.5 3.19 20.9 0.13 11/6/2024 6 11/14/2024 64 70 41 7.5 3.68 20.9 0.08 11/27/2024 6 50 30 7.0 3.44 20.9 0.11 12/5/2024 59 55 35 6.0 2.95 20.8 0.20 12/11/2024 4 75 44 7.5 3.68 20.9 0.04 12/18/2024 31 55 30 9.0 4.42 20.9 0.07 12/30/2024 39 70 41 7.5 3.68 20.9 0.06 8/13/2024 42 30 19 2.95 20.9 0.02 6.0 8/14/2024 325 20 13 5.0 2.46 20.0 1.70 8/15/2024 274 22 15 4.0 1.96 20.9 0.88 8/16/2024 364 26 17 5.0 2.46 20.9 0.86 8/21/2024 368 58 29 11.0 5.40 20.9 0.40 8/28/2024 378 55 33 7.0 3.44 20.9 0.22 144 2.95 20.9 9/4/2024 55 35 6.0 0.14 9/11/2024 56 50 31 6.0 2.95 20.9 0.10 9/19/2024 98 50 31 6.0 2.95 20.5 0.14 254 45 29 2.70 19.4 9/25/2024 5.5 0.08 MW06 10/1/2024 409 74 46 6.0 2.95 10/16/2024 14 44 29 5.0 2.46 21.1 0.10 21 4 10/23/2024 26 7.0 3.44 0.04 11/6/2024 58 50 30 7.0 3.44 20.9 0.11 11/14/2024 58 34 7.5 3.68 76 20.9 0.19 11/27/2024 60 35 7.5 3 68 12/5/2024 117 50 31 6.0 2.95 20.9 0.11 12/18/2024 48 55 27 11.5 5.65 0.10 20.8 12/11/2024 24 60 35 8.0 3.93 20.9 0.10 12/30/2024 53 50 30 7.0 3.44 20.9 0.11 8/13/2024 16 28 2.95 17.9 4.58 18 6.0 8/14/2024 403 30 20 2.46 19.7 5.0 1.62 MW08 8/15/2024 346 32 21 5.0 2.46 20.9 0.74 8/16/2024 436 38 25 2.46 20.9 5.0 0.48

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TABLE 2 DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS Hare 15 Hilcorp Energy Company San Juan County, New Mexico PID Flow Rate Carbon Dioxide SVE Well ID Date Flow Rate (acfm) Vacuum (IHG) Vacuum (psi) Oxygen (%) (ppm) (scfm)⁽¹⁾ (%) 110 0.42 8/21/2024 21 9.0 20.9 38 4.42 8/28/2024 37 30 18 7.5 3.68 20.9 0.24 9/4/2024 35 30 18 7.5 3.68 20.4 0.14 9/11/2024 69 30 7.5 20.9 0.12 18 3 68 9/19/2024 57 25 15 7.5 3.68 20.5 0.16 9/25/2024 28 40 25 6.0 2.95 19.5 0.10 10/1/2024 79 14 9 5.0 2.46 10/16/2024 7 14 9 6.0 2.95 20.0 0.18 MW08 10/23/2024 6 6.5 3.19 21.4 0.08 25 15 11/6/2024 5 7.0 3.44 20.2 0.90 11/14/2024 3 22 13 7.5 3.68 20.9 0.12 11/27/2024 8 25 15 7.5 3.68 20.9 0.70 52 25 14 8.0 0.35 12/5/2024 3.93 20.8 12/11/2024 27 20 16 0.0 0.00 20.9 0.03 12/18/2024 45 30 17 8.5 4.17 20.9 0.05 12/30/2024 73 --7.5 3 68 20.8 0.06 32 8/13/2024 59 21 5.5 2.70 16.5 >5.00 8/14/2024 373 34 23 4.5 2.21 19.4 3.06 283 74 50 4.0 1.96 20.4 1.58 8/15/2024 8/16/2024 619 50 34 4.0 1.96 20.6 1.16 58 3.93 0.48 8/21/2024 33 8.0 20.9 8/28/2024 85 50 31 6.0 2.95 20.9 0.40 9/4/2024 87 60 38 5.5 2.70 20.4 0.24 9/11/2024 50 40 25 6.0 2.95 20.9 0.24 60 38 2.95 20.2 9/19/2024 53 6.0 0.26 9/25/2024 52 60 40 4.5 2.21 19.3 0.18 MW09 10/1/2024 100 57 65 5.0 2.46 10/16/2024 15 30 20 5.0 2 46 20.0 0.24 10/23/2024 24 6.0 2.95 21.9 0.08 37 11/6/2024 6 60 6.5 3.19 20.9 0.16 11 59 7.5 3.68 20.9 11/14/2024 100 0.20 11/27/2024 12 75 46 6.5 3.19 20.9 0.13 12/5/2024 90 60 35 8.0 3.93 20.9 0.27 12/11/2024 124 75 44 7.5 3.68 20.9 0.04 12/18/2024 115 75 42 8.5 4.17 20.9 0.15 12/30/2024 289 80 47 7.5 3.68 20.9 0.19 1,334 3.38 8/13/2024 56 36 5.5 2.70 17.7 8/14/2024 1,803 44 29 4.5 2.21 12.0 3.46 8/15/2024 2,053 62 42 4.0 1.96 16.4 1.78 8/16/2024 1.978 58 38 5.0 2.46 18.0 1.66 8/21/2024 2,851 70 38 9.0 4.42 18.9 1.50 1,302 43 8/28/2024 65 4.5 2.21 20.9 0.32 9/4/2024 1,112 70 46 5.0 2.46 20.8 0.38 9/11/2024 704 70 45 5.5 2 70 20.8 0.40 9/19/2024 1,201 70 44 6.0 2.95 19.9 0.38 65 42 5.0 2.46 17.0 0.64 9/25/2024 556 MW10 10/1/2024 834 60 38 5.5 2.70 19.8 10/16/2024 410 60 39 5.0 2.46 0.36 10/23/2024 307 5.0 2.46 20.9 0.16 11/6/2024 288 75 48 5.5 2.70 20.9 0.22 11/14/2024 74 45 6.5 3.19 335 65 42 20.8 11/27/2024 5.0 2.46 0.21 12/5/2024 506 70 49 3.5 1.72 0.39 12/11/2024 484 80 53 4.5 2.21 220.9 0.59 409 12/18/2024 75 50 4.5 2.21 20.1 0.45 12/30/2024 279 65 11 4 0 1.96 20.1 0.44 1,751 3.44 8/13/2024 44 7.0 10.3 >5.00 8/14/2024 1,940 40 26 5.0 2.46 15.1 3.80 8/15/2024 1.852 74 48 5.0 2.46 18.2 1.64 8/16/2024 2,190 68 44 5.0 2.46 18.8 1.46 MW11 8/21/2024 2,381 76 36 12.0 5.89 19.3 0.94 8/28/2024 2,964 80 47 7.5 3.68 20.6 0.50 9/4/2024 55 32 7.5 3.68 20.6 0.31 9/11/2024 423 80 47 7.5 3.68 20.9 0.26

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TABLE 2 DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS Hare 15 Hilcorp Energy Company San Juan County, New Mexico PID Flow Rate Carbon Dioxide SVE Well ID Date Flow Rate (acfm) Vacuum (IHG) Vacuum (psi) Oxygen (%) (ppm) (scfm)⁽¹⁾ (%) 9/19/2024 1.999 36 3.44 20.5 0.28 60 7.0 9/25/2024 461 70 44 6.0 2.95 17.3 0.46 10/1/2024 592 100 63 6.0 2.95 19.8 0.28 10/16/2024 229 58 37 5.5 2 70 10/23/2024 179 7.5 3.68 20.9 0.18 50 30 11/6/2024 170 7.0 3.44 20.9 0.19 MW11 11/14/2024 --56 32 8.0 3.93 11/27/2024 142 60 35 7.5 3.68 20.8 0.19 12/5/2024 386 80 52 5.0 2.46 20.5 0.32 12/11/2024 130 80 44 9.0 4.42 20.9 0.41 12/18/2024 172 80 40 11.0 5.40 20.7 0.34 12/30/2024 152 50 29 8.0 3.93 20.9 0.22 8/13/2024 290 44 24 9.0 4.42 18.9 2.28 8/14/2024 963 10 6 6.0 2.95 20.9 0.14 8/15/2024 662 14 10 4.0 1.96 20.9 0.10 8/16/2024 451 14 10 4.0 1.96 20.9 0.06 8/21/2024 2,845 72 38 10.0 4.91 20.6 0.48 MW13 8/28/2024 993 60 35 8.0 3.93 20.9 0.00 122 60 5.0 2.46 20.9 0.02 9/4/2024 39 9/11/2024 63 4.0 1.96 20.9 0.04 113 3.68 9/19/2024 20.5 0.04 9/25/2024 464 7.5 3.68 17.4 0.26 10/1/2024 552 52 30 8.0 3.93 20.0 10/16/2024 58 37 5.5 2.70 0.02 10/23/2024 153 9.0 4.42 21.4 0.06 11/6/2024 80 60 33 9.0 4.42 20.8 0.11 90 10.0 11/14/2024 4.91 20.9 11/27/2024 94 80 43 9.5 4 67 0.17 12/5/2024 148 60 36 7.0 3.44 20.7 0.17 12/11/2024 14 65 34 10.0 4.91 20.4 0.13 39 60 31 20.9 12/18/2024 10.5 5.16 0.13 12/30/2024 38 60 32 9.5 4 67 20.9 0.19 8/13/2024 379 42 25 3.44 14.8 >5.00 8/14/2024 1.074 32 21 5.0 2.46 18.3 4.18 8/15/2024 759 50 34 40 1.96 19.9 1 94 8/16/2024 726 52 34 2.46 19.9 2.02 5.0 8/21/2024 688 58 27 12.0 5.89 20.6 1.26 MW14 8/28/2024 633 50 30 7.0 3.44 20.9 0.65 9/4/2024 210 45 28 6.5 3.19 20.9 0.40 9/11/2024 150 45 28 6.5 3.19 20.9 0.32 9/19/2024 161 60 35 7.5 3.68 20.9 0.05 60 38 9/25/2024 203 6.0 2.95 19.5 0.20 10/1/2024 143 60 36 7.0 3.44 10/16/2024 72 48 31 5.0 2 46 199 0.23 10/23/2024 81 6.5 3.19 21.1 0.16 51 50 30 7.0 3.44 20.9 0.14 11/6/2024 11/14/2024 60 35 7.5 3.68 78 44 11/27/2024 75 7.5 3.68 20.9 0.10 12/5/2024 108 70 46 5.0 2.46 20.9 0.26 12/11/2024 21 65 37 8.0 3.93 20.9 0.27 12/18/2024 64 70 40 8.0 3.93 20.9 0.26 12/30/2024 64 50 30 3.44 20.9 0.20 7.0 379 70 42 7.0 12.0 8/13/2024 3.44 >5.00 8/14/2024 1,932 52 33 5.5 2.70 14.6 >5.00 8/15/2024 1,677 58 36 6.0 2.95 16.9 4.26 8/16/2024 1,262 44 29 5.0 2.46 17.7 3.82 8/21/2024 1,555 70 35 11.0 5.40 18.9 2.52 8/28/2024 1,865 55 33 7.0 3.44 20.9 0.76 MW15 9/4/2024 975 55 33 7.0 3 44 20.7 0.72 9/11/2024 555 60 35 7.5 3.68 20.8 0.54 9/19/2024 602 70 41 7.5 3.68 19.9 0.50 9/25/2024 393 60 38 6.0 2.95 18.2 0.62 10/1/2024 386 70 43 6.5 3.19

41

5.0

2.46

19.9

0.39

62

10/16/2024

220



20.9

3 93

TABLE 2 **DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS** Hare 15 Hilcorp Energy Company San Juan County, New Mexico Flow Rate Carbon Dioxide PID SVE Well ID Flow Rate (acfm) Vacuum (IHG) Vacuum (psi) Date Oxygen (%) (ppm) (scfm)⁽¹⁾ (%) 10/23/2024 20.9 0.22 205 7.0 3.44 11/6/2024 214 70 41 7.5 3.68 20.9 0.25 11/14/2024 72 41 8.0 3.93 11/27/2024 442 60 20.4 0.31 35 7.5 3 68 MW15 12/5/2024 539 70 46 5.0 2.46 20.1 0.49 12/11/2024 395 75 41 9.0 4.42 20.9 0.39 12/18/2024 371 65 36 9.0 4.42 20.9 0.46 12/30/2024 299 70 41 7.5 3.68 20.6 0.35 8/13/2024 1,796 14 3.44 >5.00 12 5.5 2.70 8/14/2024 480 8 20.9 0.02 8/15/2024 501 18 12 5.0 2.46 20.9 0.00 8/16/2024 47 26 17 5.0 2.46 20.9 0.02 8/21/2024 404 25 12 11.0 5.40 20.9 0.02 8/28/2024 4,787 45 27 7.0 3.44 20.9 0.76 9/4/2024 1,810 30 18 7.0 3.44 20.8 0.51 9/11/2024 1.335 30 18 7.5 3.68 20.7 0.42 9/19/2024 1,421 NM NM 7.0 3.44 20.2 0.32 9/25/2024 30 19 6.0 2.95 0.04 188 19.9 MW16 10/1/2024 112 58 36 6.0 2.95 10/16/2024 68 14 9 5.5 2.70 19.9 0.02 10/23/2024 30 6.0 2.95 20.2 0.08 11/6/2024 279 50 7.5 3.68 20.9 0.11 11/14/2024 48 8.0 3.93 11/27/2024 422 55 20.5 0.25 7.5 3.68 751 20 7.5 3.68 20.9 0.32 12/5/2024 12/11/2024 217 15 1.0 0.49 20.9 0.28 12/18/2024 273 75 9.0 4.42 20.9 0.21

8.0

Notes

(1) Individual Well Flow Rates in scfm estimated based on rotometer readings from 1/2/24 to 1/5/24

241

IHG: inches of mercury

PID: photoionization detector

12/30/2024

ppm: parts per million

acfm: actual cubic feet per minute

scfm: standard cubic feet per minute

%: percent

--: not measured



TABLE 3 DUAL PHASE EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS Hare 15 Hilcorp Energy Company San Juan County, New Mexico

Date	PID (ppm)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	TVPH/GRO (µg/L)	Oxygen (%)	Carbon Dioxide (%)		
8/13/2024	1,572	310	240	36	530	45,000	12.01	7.68		
8/14/2024	1,915	180	250	30	390	28,000	16.73	3.02		
8/21/2024	1,838	54	280	37	480	18,000	20.46	0.95		
8/28/2024	2,020	20	160	28	380	12,000	21.20	0.64		
9/4/2024	495	14	100	14	190	6,600	21.57	0.33		
9/19/2024	1,004	69	360	<50	590	3,700	21.78	0.28		
10/1/2024	135	6.1	31	< 5.0	56	64	21.47	0.40		
10/16/2024	389	2.3	10	0.68	11	18	21.65	0.23		
11/15/2024		1.3	1.9	< 0.50	<0.75	440	19.33	0.19		
11/27/2024	378	4.4	24.0	< 5.0	78	2,100	22.01	0.16		
12/5/2024	276	1.1	1.8	< 0.50	0.92	440	21.80	0.16		

Notes:

GRO: gasoline range organics µg/L: microgram per liter PID: photoionization detector ppm: parts per million TVPH: total volatile petroleum hydrocarbons

%: percent
--: not sampled

Grey: Result below laboratory reporting limit



TABLE 4

DUAL PHASE EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS

Hare 15 Hilcorp Energy Company San Juan County, New Mexico

Laboratory Analysis

Laboratory Analysis										
Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH (μg/L)				
8/13/2024	1,572	310	240	36	530	45,000				
8/14/2024	1,915	180	250	30	390	28,000				
8/21/2024	1,838	54	280	37	480	18,000				
8/28/2024	2,020	20	160	28	380	12,000				
9/4/2024	495	14	100	14	190	6,600				
9/19/2024	1,004	69	360	<50	590	3,700				
10/1/2024	135	6.1	31	<5.0	56	64				
10/16/2024	389	2.3	10	0.68	11	18				
11/15/2024		1.3	1.9	< 0.50	< 0.75	440				
11/27/2024	378	4.4	24.0	<5.0	78	2,100				
12/5/2024	276	1.1	1.8	<0.50	0.92	440				
Average	1,002	60	133	19	246	10,578				

Vapor Extraction Summary

			vарс	or Extraction Sumi	nary			
Date	Flow Rate (scfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
8/13/2024	127	0	0	0.1472	0.1140	0.0171	0.2517	21.37
8/14/2024	127	150,114	150,114	0.0855	0.1187	0.0142	0.1852	13.30
8/21/2024	120	1,346,034	1,195,920	0.0242	0.1257	0.0166	0.2154	8.08
8/28/2024	136	2,681,010	1,334,976	0.0102	0.0814	0.0142	0.1933	6.10
9/4/2024	157	4,251,324	1,570,314	0.0082	0.0587	0.0082	0.1116	3.88
9/19/2024	149	7,457,208	3,205,884	0.0385	0.2006	0.0279	0.3288	2.06
10/1/2024	169	9,000,516	1,543,308	0.0039	0.0196	0.0032	0.0354	0.04
10/16/2024	204	13,408,140	4,407,624	0.0018	0.0075	0.0005	0.0084	0.01
11/15/2024 ⁽¹⁾	202	21,629,136	8,220,996	0.0010	0.0014	0.0004	0.0006	0.33
11/27/2024	139	23,828,394	2,199,258	0.0023	0.0125	0.0026	0.0406	1.09
12/5/2024	143	25,460,310	1,631,916	0.0006	0.0010	0.0003	0.0005	0.24
			Average	0.0294	0.067	0.0096	0.125	5.14

|--|

Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
8/13/2024	4	0.0	0.0	0.0	0.0	0.0	0.0	0.00
8/14/2024	24	20	1.7	2.3	0.3	3.6	262.0	0.13
8/21/2024	190	166	4.0	20.9	2.8	35.8	1341.9	0.67
8/28/2024	354	164	1.7	13.3	2.3	31.6	998.6	0.50
9/4/2024	520	167	1.4	9.8	1.4	18.6	646.0	0.32
9/19/2024	879	359	13.8	71.9	10.0	117.9	739.4	0.37
10/1/2024	1,031	152	0.6	3.0	0.5	5.4	6.2	0.00
10/16/2024	1,391	360	0.6	2.7	0.2	3.0	4.9	0.00
11/15/2024	2,070	678	0.7	1.0	0.3	0.4	225.5	0.11
11/27/2024	2,333	264	0.6	3.3	0.7	10.7	287.9	0.14
12/5/2024	2,523	190	0.1	0.2	0.1	0.1	44.8	0.02
	Total Mass	Recovery to Date	25	128	18	227	4,557	2.3

Notes:

cf: cubic feet

cfm: cubic feet per minute

μg/L: micrograms per liter

lb/hr: pounds per hour --: not sampled

--: not sample

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

Grey: Laboratory reporting limit used to estimate mass removal

(1): Flow rate and hours from 11/14/24 applied to analytical data from 11/15/24



TABLE 5 LIQUID RECOVERY Hare 15

Hilcorp Energy Company San Juan County, New Mexico

Date/Time	Hour Meter	Flow Meter	Gallons	Cumulative Volume	Time Period	Time Period	Recove	ery Rate	Notes
Date/Time	Reading	Reading (gal)	Recovered this Period	Recovered (gal)	(hr:min:sec)	(min)	(gpm)	(gal/day)	Notes
8/12/2024					System	Startup			
8/20/2024					Totalizer	Installed			
8/21/2024	189.7						1		
8/28/2024	352.6	4,680	4,680	4,680	168:45:00	10,125	0.46	666	
9/4/2024	520.3	9,057	4,378	9,057	168:25:00	10,105	0.43	624	
9/11/2024	687.4	13,093	4,035	13,093	153:30:00	9,210	0.44	631	
9/19/2024	878.9	17,197	4,105	17,197	192:00:00	11,520	0.36	513	
9/25/2024	970.3	20,511	3,313	20,511	157:58:00	9,478	0.35	503	
10/1/2024	1,031.1	22,652	2,142	22,652	130:02:00	7,802	0.27	395	
10/16/2024	1,391	23,665	1,013	23,665	360:00:00	21,600	0.05	68	
10/23/2024	NR	NR	NR	NR	168:00:00	10,080	NR	NR	
11/6/2024	1,880	32,212	8,546	32,212	336:00:00	20,160	0.42	610	
11/14/2024	2,070	35,998	3,786	35,998	192:00:00	11,520	0.33	473	
11/27/2024	2,333	38,388	6,176	38,388	312:00:00	18,720	0.33	475	
12/5/2024	2,523	38,388	0	38,388	192:00:00	11,520	0.00	0	
12/11/2024	2,605	38,398	10	38,398	144:00:00	8,640	0.00	2	
12/18/2024	2,774	38,398	0	38,398	168:00:00	10,080	0.00	0	
12/30/2024	3,050	38,398	0	38,398	288:00:00	17,280	0.00	0	

Notes:

*: totalizing meter installed on 8/16/2024

bbl: barrel in: inch
ft: feet min: minute
gal: gallon sec: second

gal/day: gallon per day

Dashed line indicated quarter change

gpm: gallon per minute --: not applicable
hr: hour NR: Not recorded

Total Quantity of Liquid Removed: 38,398 Gal
914 bbl

			TAR	LE 6							
				ER ELEVATION							
				e 15							
				gy Company							
San Juan County, New Mexico											
			Carr Guarr Gourr								
Well Number	Top of Casing Elevation (feet AMSL)	Total Depth (feet)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)				
			9/22/2020	26.48			5,791.34				
			10/2/2020	26.48			5,791.34				
			10/7/2020	26.46			5,791.36				
			2/17/2021	26.42			5,791.40				
			9/27/2021	26.45			5,791.37				
			1/7/2022	26.40			5,791.42				
			4/22/2022	26.44			5,791.38				
MANAGA	E 047.00	07.60	9/8/2022	26.36			5,791.46				
MW01	5,817.82	27.60	12/9/2022	26.25			5,791.57				
			3/9/2023	26.31			5,791.51				
			5/2/2023	26.29			5,791.53				
			8/30/2023	26.23			5,791.59				
			11/30/2023	26.23			5,791.59				
			2/15/2024	26.33			-26.33				
			6/3/2024	26.32			-26.32				
			11/21/2024	DRY							
			9/22/2020	DRY							
			10/2/2020	37.02 (1)							
			10/7/2020	DRY							
			2/17/2021	37.09 (1)							
			9/27/2021	DRY							
			1/7/2022	DRY							
			9/8/2022	DRY							
MW02	5,817.36	37.10	12/9/2022	DRY							
			3/9/2023	DRY							
			5/2/2023	DRY							
			8/30/2023	DRY							
			11/30/2023	DRY							
			2/15/2024	DRY							
			6/3/2024	DRY							
			11/21/2024	DRY							
			9/22/2020	27.85	27.14	0.71	-27.28				
			10/2/2020	30.62	27.16	3.46	-27.85				
			10/7/2020	29.90	27.14	2.76	-27.69				
			2/17/2021	28.01	27.42	0.59	-27.54				
			9/27/2021	27.45	27.31	0.14	-27.34				
			11/24/2021	27.48	27.32	0.16	-27.35				
			1/7/2022	27.42	27.31	0.11	-27.33				
MMOS	5,817.81	27 55	4/22/2022	27.66	27.58	0.08	-27.60				
MW03	3,017.01	37.55	9/8/2022	27.45	27.35	0.10	-27.37				
			12/9/2022	25.24	25.14	0.10	-25.16				
			3/9/2023	27.14	27.05	0.09	-27.07				
			5/2/2023	27.20	27.08	0.12	-27.10				
			8/30/2023	27.16			-27.16				
			11/30/2023	28.13	 27 10		-28.13 27.11				
			2/15/2024 6/3/2024	27.13 27.13	27.10 27.12	0.03 0.01	-27.11 -27.12				
			11/21/2024	27.13	Sheen		-27.12 -27.63				
ļ			1 1/2 1/2024	21.03	orieen	-	-21.03				

Ensolum 1 of 9

			TAR	LE 6			
				ER ELEVATION			
				e 15			
				gy Company			
				ity, New Mexico			
			9/22/2020	27.58	27.56	0.02	-27.56
			10/2/2020	29.39	27.56	1.83	-27.93
			10/7/2020	28.08	27.57	0.51	-27.67
			2/17/2021	27.96	27.66	0.30	-27.72
			9/27/2021	28.15	27.90	0.25	-27.95
			11/24/2021	28.22	27.92	0.30	-27.98
			1/7/2022	28.04	27.85	0.19	-27.89
			4/22/2022	28.06	27.88	0.18	-27.92
MW04A	5,818.23	36.58	9/8/2022	27.89	27.77	0.12	- 27.79
			12/9/2022	27.87	27.74	0.13	-27.77
			3/9/2023	27.81	27.75	0.06	-27.76
			5/2/2023	28.11	27.97	0.14	-28.00
			8/30/2023 11/30/2023	27.91			-27.91
			2/15/2024	27.91 27.96	 27.93	0.03	-27.91 -27.94
			6/3/2024	28.00	27.93 27.98		-27.94 -27.98
				28.89		0.02	-27.98 -28.89
			9/22/2020	28.89 DRY	Sheen 		-28.89
			10/2/2020	DRY			
			10/2/2020	DRY			
			2/17/2021	DRY			
			9/27/2021	DRY			
			1/7/2022	DRY			
MW04B	5,818.22	17.30	9/8/2022	DRY			
			12/9/2022	DRY			
			3/9/2023	DRY			
			5/2/2023	DRY			
			8/30/2023	DRY			
			11/30/2023	DRY			
			9/22/2020	27.71			5,790.57
			10/2/2020	27.70			5,790.58
			10/7/2020	27.67			5,790.61
			2/17/2021	27.75			5,790.53
			9/27/2021	27.75			5,790.53
			1/7/2022	26.73			5,791.55
			9/8/2022	27.77			-27.77
MW06	5,818.28	32.30	12/9/2022	27.75			-27.75
			3/9/2023	27.76			-27.76
			5/2/2023	27.79			-27.79
			8/30/2023	28.75			-28.75
			11/30/2023 2/16/2024	27.74 27.78			-27.74 -27.78
			5/31/2024	27.76			-27.76 -27.86
			11/21/2024	28.19			-27.86 -28.19
			9/22/2020	28.77	28.01	0.76	-28.16
			10/2/2020	28.52	28.03	0.49	-28.13
			10/7/2020	28.69	28.16	0.53	-28.27
			2/17/2021	28.33	Sheen		5,790.31
			9/27/2021	28.29	28.22	0.07	5,790.41
			11/24/2021	28.25	28.21	0.04	5,790.42
MW07 5,			1/7/2022	28.23	Sheen		5,790.41
			4/22/2022	28.52	28.17	0.35	5,790.40
	5,818.64	30.45	9/8/2022	28.40	Sheen		5,790.24
			12/9/2022	28.37	28.17	0.20	-28.21
			3/9/2023	28.46	Sheen		5,790.18
			5/2/2023	28.62	28.40	0.22	-28.44
			8/30/2023	28.37			5,790.27
<u> </u>			11/30/2023	28.37			-28.37

Ensolum
Released to Imaging: 1/16/2025 2:16:43 PM

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			TAR	I.E.C			
				LE 6			
				ER ELEVATION			
				e 15 gy Company			
				ity, New Mexico			
			2/15/2024	28.40			-28.40
MW07			5/31/2024	28.40	28.39	0.01	-28.39
			11/21/2024	29.12	Sheen		-29.12
			9/22/2020	DRY			-25.12
			10/2/2020	DRY			
			10/7/2020	DRY			
			2/17/2021	36.72 (1)			
			9/27/2021	36.89 (1)			
			1/7/2022	DRY			
			9/8/2022	36.80 (1)			
MW08	5,817.40	37.27	12/9/2022	36.81(1)			
			3/9/2023	36.75 (1)			
			5/2/2023	36.85 (1)			
			8/30/2023	36.98 (1)			
			11/30/2023	37.18 (1)			
			2/15/2024	35.87 (1)			
			6/3/2024	35.83 (1)			
			11/21/2024	34.60 (1)			
			9/22/2020	28.10	-	-	5,790.51
			10/2/2020	30.71			5,787.90
			10/7/2020	29.72			5,788.89
			2/17/2021	28.15			5,790.46
			9/27/2021	28.17			5,790.44
			1/7/2022	28.22			5,790.39
			4/22/2022	28.20			5,790.41
MW09	5,818.61	32.30	9/8/2022	28.23			5,790.38
	0,010.01	02.00	12/9/2022	28.09			-28.09
			3/9/2023	28.08			-28.08
			5/2/2023	28.12			-28.12
			8/30/2023	27.97			-27.97
			11/30/2023	27.95			-27.95
			2/15/2024	28.05			-28.05
			6/3/2024	28.12			-28.12
			11/21/2024	29.47			-29.47
			9/22/2020	30.23	29.22	1.01	-29.42
			10/2/2020	29.74	29.29	0.45	-29.38
			10/7/2020	29.80	29.21	0.59	-29.33
			2/17/2021	30.23	29.49	0.74	-29.64
			9/27/2021	29.65	29.37	0.28	-29.43
			11/24/2022	29.60	29.39	0.21	-29.43
			1/7/2022	29.50	29.42	0.08	-29.44
MN8/4-0	E 040 70	22.00	4/22/2022	29.55	 Oh		5,790.18
MW10	5,819.73	32.60	9/8/2022	29.45	Sheen		-29.45
			12/9/2022	29.44	 Chaan		-29.44
			3/9/2023	29.46	Sheen		-29.46
			5/2/2023	29.40	Sheen		-29.40
			8/30/2023 11/30/2023	29.47 29.31			-29.47 -29.31
			2/15/2024	29.31 29.56	-	-	-29.56
			6/3/2024	29.56 29.53			-29.56 -29.53
			11/21/2024			-	
			1 1/2 1/2024	29.20	-	-	-29.20

Ensolum 3 of 9

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ENSOLUM

				LE 6			
			GROUNDWATI	ER ELEVATION			
				e 15			
				gy Company			
			San Juan Coun	ty, New Mexico			
			9/22/2020	29.01			5,790.36
			10/2/2020	29.02			5,790.35
			10/7/2020	28.91			5,790.46
			2/17/2021	29.00			5,790.37
			9/27/2021	28.97			5,790.40
			1/7/2022	28.98			5,790.39
			4/22/2022 9/8/2022	28.99 29.01			5,790.38 5,790.36
MW11	5,819.37	32.57	12/9/2022	28.98			-28.98
			3/9/2023	29.00			-29.00
			5/2/2023	29.01	29.00	0.01	-29.01
			8/30/2023	28.71			-28.71
			11/30/2023	28.70			-28.70
			2/15/2024	28.77	28.74	0.03	-28.77
			6/3/2024	28.78			-28.78
			11/21/2024	29.35			-29.35
			9/22/2020	27.81	27.43	0.38	-27.51
			10/2/2020	27.80	27.44	0.36	-27.51
			10/7/2020	27.81	27.42	0.39	-27.50
			2/17/2021	27.79	27.64	0.15	-27.67
			9/27/2021	27.68	27.57	0.11	-27.59
			11/24/2021	27.70	27.57	0.13	-27.60
			1/7/2022	27.66	27.58	0.08	-27.60
			4/22/2022	27.70	27.58	0.12	-27.60
MW13	5,818.06	32.60	9/8/2022	27.69	27.60	0.09	-27.62
			12/9/2022	27.66	27.58	0.08	-27.60
			3/9/2023	27.67	27.58	0.09	-27.60
			5/2/2023	27.75	27.59	0.16	-27.62
			8/30/2023	27.29	27.18	0.11	-27.20
			11/30/2023 2/15/2024	27.32 27.29	 27.24	 0.05	-27.32 -27.25
			6/3/2024	27.30	27.29	0.03	-27.29
			11/21/2024	26.43	Sheen		-26.43
			2/17/2021	33.78			5,787.52
			9/27/2021	30.94			5,790.36
			1/7/2022	30.99			5,790.31
			9/8/2022	30.96			5,790.34
			12/9/2022	30.91			-30.91
M14/4 4	5 924 20	22.02	3/9/2023	30.99			-30.99
MW14	5,821.30	33.83	5/2/2023	31.60			-31.60
			8/30/2023	31.34			-31.34
			11/30/2023	30.79			-30.79
			2/16/2024	31.03			-31.03
			5/30/2024	32.90			-32.90
			11/21/2024	DRY			
			2/17/2021	33.27	33.11	0.16	-33.14
			9/27/2021	33.65	33.05	0.60	-33.17
			1/7/2022	33.44	33.33	0.11	-33.35 5.700.04
			4/22/2022	33.33	 Shoon		5,790.01
			9/8/2022	32.23	Sheen		-32.23
M\M45	5,823.34	35.62	12/9/2022	33.22	 Shoon		-33.22 33.21
MW15 5,8	0,023.34	30.02	3/9/2023 5/2/2023	33.21 33.25	Sheen Sheen		-33.21 -33.25
			8/30/2023	33.75	Sneen 	 	-33.25 -33.75
			11/30/2023	33.73			-33.75 -33.32
			2/16/2024	33.42			-33.42
			6/3/2024	33.49			-33.49
			11/21/2024	30.07	Sheen		-30.07
L	1	1					

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			TAB	LE 6			
				ER ELEVATION			
			Har	e 15			
				gy Company			
				ty, New Mexico			
			2/17/2021	32.20	31.67	0.53	-31.78
			9/27/2021	31.71	31.18	0.53	-31.29
			1/7/2022	31.65	31.24	0.41	-31.32
			4/22/2022	31.56	31.19	0.37	-31.26
	MW16 5,821.55		9/8/2022	31.64	31.21	0.43 0.39	-31.30 -31.33
MW16		37.05	12/9/2022 3/9/2023	31.64 31.56	31.25 31.22	0.34	-31.33 -31.29
I WIVE TO	3,021.00	37.03	5/2/2023	31.62	31.25	0.37	-31.32
			8/30/2023	31.60	31.28	0.32	-31.34
			11/30/2023	31.28			-31.28
			2/15/2024	31.58	31.26	0.32	-31.32
			6/3/2024	31.31			-31.31
			11/21/2024	29.19	Sheen		-29.19
	Ì		2/17/2021	DRY			
			9/27/2021	DRY			
			1/7/2022	DRY			
			4/22/2022	DRY			
			9/8/2022	DRY			
			12/9/2022	31.86 (1)			
MW18	5,821.35	32.54	3/9/2023	DRY			
			5/2/2023	32.10 (1)			
			8/30/2023	DRY			
			11/30/2023	DRY			
			2/16/2024	31.32 (1)			
			6/3/2024	32.12 (1)			
			11/21/2024	DRY			
			2/17/2021	34.93			5,790.13
			9/27/2021	34.93			5,790.13
			1/7/2021	34.93			5,790.13
			4/22/2022	34.88 34.93			5,790.18
			9/8/2022 12/9/2022	34.94			5,790.13 -34.94
MW19	5,825.06	43.50	3/9/2023	34.91			-34.91
WWW15	3,023.00	45.50	5/2/2023	34.96			-34.96
			8/30/2023	34.98			-34.98
			11/30/2023	34.93			-34.93
			2/16/2024	34.97			-34.97
			5/30/2024	34.98			-34.98
			11/21/2024	35.98			-35.98
			2/17/2021	30.36			5,790.24
			9/27/2021	30.38			5,790.22
			1/7/2022	30.35			5,790.25
			4/22/2022	30.33			5,790.27
			9/8/2022	30.38			5,790.22
			12/9/2022	30.38			-30.38
MW20	MW20 5,820.60	40.13	3/9/2023	30.35			-30.35
			5/2/2023	30.40			-30.40
			8/30/2023	30.42			-30.42
			11/30/2023	30.45			-30.45
			2/15/2024	30.38			-30.38
			5/31/2024	30.43			-30.43
			11/21/2024	31.51			-31.51

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TABLE 6 GROUNDWATER ELEVATION Hare 15 Hilloop Energy Company San Juan County, New Mexico \$2,12021				TAR	I E 6		
Hare 15							
San Juan County, New Moxico 6/21/2021 36.88 (1) - -							
S21/2021 36.88 (1) - - - - -				Hilcorp Ener	gy Company		
99/27/2021 36.19 (1) - - - - -				San Juan Coun	ty, New Mexico		
### ### ##############################				5/21/2021	35.88 (1)	 	
MW21 5.820.72 36.24 3/9/2022 DRY						 	
MW21 5.820.72 36.24 39/2023 DRY						 	
MW21 5,820.72 36.24 5/2023 DRY						 	
MW21 5,820,72 36,24 5/2/2023 DRY						 	
830/2023 DRY -	MW21	5,820.72	36.24			 	
11/30/2023 DRY -						 	
### Section Se						 	
11/21/2024 DRY						 	
MW22				5/31/2024	DRY	 	
MW22 5.826.83 42.95 9/27/2021 36.81 -				11/21/2024	DRY	 -	
MW22 5,826.83 42.95 36.72 36.72 - 5,790.11 5,790.11 12/9/2022 36.81 36.81				5/21/2021	36.78	 -	5,790.05
MW22 5,826.83 42.95 12/9/2022 36.81 5,790.04 12/9/2023 36.77 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.77 - 36.84 8/30/2023 36.85 36.84 8/30/2023 36.88 36.88 2/15/2024 36.88 36.88 2/15/2024 36.88 36.88 11/21/2024 36.88 36.88 11/21/2024 37.86 37.86 11/21/2024 37.86 37.86 11/21/2024 39.45 5,790.15 4/22/2022 39.45 5,790.15 4/22/2022 39.45 5,790.15 4/22/2022 39.47 39.47 - 39.47 12/9/2022 39.47 39.47 - 39.40 12/9/2022 39.46 39.49 39.49 1/21/2024 39.49 1/21/2024 39.49 39.49 1/21/2024 39.49 1/21/2024 39.49 1/21/2024 39.49 1/21/2024 39.49 1/21/2024 39.49 1/21/2024 39.49 1/21/2024 39.49 1/21/2024 39.49 1/21/2024 39.49 1/21/2024 39.49 1/21						 	·
MW22 5,826.83 42.95 339/2023 36.81 36.81 MW22 5,826.83 42.95 339/2023 36.84 36.84 8/30/2023 36.84 36.85 11/30/2023 36.85 36.85 11/30/2023 36.88 36.88 2/15/2024 36.81 36.81 5/31/2024 36.86 36.86 11/21/2024 37.86 36.86 11/21/2021 39.45 5,789.15 4/22/2022 39.35 5,790.15 4/22/2022 39.45 5,790.15 4/22/2022 39.45 5,790.15 12/9/2022 39.45 5,790.15 12/9/2022 39.45 5,790.15 12/9/2022 39.45 39.47 3/9/2023 39.45 39.47 3/9/2023 39.45 39.47 3/9/2023 39.45 39.47 3/9/2024 39.46 39.43 5/2/2023 39.50 39.50 8/30/2023 39.33 39.39.33 11/30/2023 39.46 39.46 2/16/2024 39.94 39.94 5/30/2024 39.95 39.95 11/21/2024 40.51 40.51 11/21/2024 40.51 40.51 9/27/2021 36.40 36.41 3/9/2023 36.41 36.41 3/9/2023 36.41 36.41 3/9/2023 36.41 36.41 3/9/2023 36.44 36.42 3/9/2023 36.45 5,790.40 3/9/2020 36.41 36.41 3/9/2023 36.43 36.43 11/30/2023 36.45 36.45 11/21/2024 36.24 36.42 5/30/2024 36.24 36.42 5/30/2024 36.43 36.43 11/21/2024 DRY						 	· ·
MW22 5.826.83 42.95 3/9/2023 36.77						 	·
MW22 5.826.83 42.95 5/2/2023 36.84							
New 23 Section Secti	MW22	5,826.83	42.95			 	
MW23 5,829.60 44.78 11/30/2023 36.86						 	
MW23 5,829.60 44.78 36,820							
1/21/2024 36.86						 	
MW23 5,829.60 44.78 5,829.60 44.78 5,790.22 39.45 5,790.15 12/9/2022 39.45 5,790.15 12/9/2022 39.45 39.47 39.9/2023 39.45 39.47 39.9/2023 39.45 39.43 5/2/2023 39.45 39.43 5/2/2023 39.45 39.43 5/2/2023 39.45 39.49 5/30/2023 39.33 39.50 8/30/2023 39.33 39.49 5/30/2024 39.49 39.49 5/30/2024 39.51 39.49 5/30/2024 40.51 39.49 5/30/2024 40.51 40.51 11/2/1/2024 40.51 5,790.41 9/27/2021 36.40 5,790.36 9/8/2022 36.36 5,790.40 12/9/2022 36.41 36.41 3/9/2023 36.41 36.41 3/9/2023 36.41 36.42 8/30/2023 36.45 36.42 8/30/2023 36.45 36.42 5/30/2024 36.38 36.42 5/30/2024 36.38 36.42 5/30/2024 36.38 36.42 5/30/2024 36.38 36.38 2/16/2024 36.34 36.43 11/21/2024 DRY 36.43 11/21/2024 DRY						 	
MW23 5,829.60 44.78 9/27/2021 39.45 5,790.15 4/22/2022 39.48 5,790.15 5/90.22 9/8/2022 39.47 39.47 39/2023 39.43 39.43 5/2/2023 39.50 39.43 5/2/2023 39.50 39.50 8/30/2023 39.33 39.33 11/30/2023 39.46 39.46 2/16/2024 39.49 39.46 2/16/2024 39.51 39.51 11/21/2024 40.51 39.51 11/21/2024 40.51 5,790.41 9/27/2021 36.40 9/8/2022 36.36 5,790.40 12/9/2022 36.36 5,790.40 12/9/2022 36.36 36.41 3/9/2023 36.37 36.41 3/9/2023 36.37 36.37 36.37 3/2023 36.42 36.41 3/9/2023 36.42 36.42 3/9/2023 36.42 36.42 3/9/2023 36.42 36.42 3/9/2023 36.44 36.45 11/30/2023 36.38 36.42 3/9/2023 36.45 36.45 11/30/2023 36.38 36.42 3/9/2024 36.24 36.45 11/30/2023 36.38 36.42 3/9/2024 36.24 36.45 11/2024 36.24 36.45 3/9/2024 36.43 36.45 3/9/2024 36.43 36.45 3/9/2024 36.43 36.45 3/9/2024 36.43 36.45 3/9/2024 36.43 36.45 3/9/2024 36.43 36.43 11/2024 DRY 36.45 3/9/2021 DRY 36.43 11/2024 DRY					37.86	 	
MW23 5,829.60 44.78 44.78 3/9/2022 39.45 12/9/2022 39.47				5/21/2021	40.38	 	5,789.22
MW23 5,829.60 44.78 39/8/2022 39.45 5,790.15 5,790.15 12/9/2022 39.47 39.47 39/2023 39.43 39.50 8/30/2023 39.33 39.50 8/30/2023 39.33 39.46 2/16/2024 39.49 39.46 2/16/2024 39.49 39.51 11/21/2024 40.51 40.51 11/21/2024 40.51 40.51 9/27/2021 36.40 5,790.41 9/27/2021 36.40 5,790.40 12/9/2022 36.41 36.41 3/9/2023 36.37 36.41 3/9/2023 36.42 36.41 3/9/2023 36.42 36.42 8/30/2023 36.38 36.42 8/30/2023 36.38 36.42 8/30/2023 36.38 36.42 5/30/2024 36.43 36.45 5/30/2024 36.43 36.46 3/30/2023 36.37 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43 36.45 5/30/2024 36.43			.60 44.78	9/27/2021	39.45	 	5,790.15
MW23 5,829.60 44.78 31/9/2022 39.47 39.43						 	·
MW23 5,829.60 44.78 3/9/2023 39.50						 	· ·
MW23 5,829.60 44.78 5/2/2023 39.50						 	
8/30/2023 39.33	MW23	5,829.60				 	
11/30/2023 39.46						 	
2/16/2024 39.49						 	
11/21/2024 40.51 -40.51						 	
5/21/2021 36.35				5/30/2024		 	
MW24 5,826.76 41.39 5/2/2023 36.45				11/21/2024	40.51	 -	-40.51
MW24 5,826.76 41.39 5/2/2023 36.41				5/21/2021	36.35	 	5,790.41
MW24 5,826.76 41.39 5/2/2023 36.4136.41 3/9/2023 36.3736.42 8/30/2023 36.4536.45 11/30/2023 36.3836.24 5/30/2024 36.2436.24 5/30/2024 36.43				9/27/2021	36.40		5,790.36
MW24 5,826.76 41.39 5/2/2023 36.37						 	
MW24 5,826.76 41.39 5/2/2023 36.4236.42 8/30/2023 36.4536.45 11/30/2023 36.3836.38 2/16/2024 36.2436.24 5/30/2024 36.4336.43 11/21/2024 DRY 5/21/2021 40.02 (1) 9/27/2021 DRY							
8/30/2023 36.45	BANA/O 4	5 006 76	44.20				
11/30/2023 36.3836.38 2/16/2024 36.2436.24 5/30/2024 36.43	IVI VV 24	5,020.70	41.39				
2/16/2024 36.24							
5/30/2024 36.43					 		
11/21/2024 DRY						 	
5/21/2021 40.02 (1) 9/27/2021 DRY						 	
9/27/2021 DRY				5/21/2021		 	
4/22/2022 40.30 (4)				9/27/2021		 	
				4/22/2022	40.30 (1)	 	
9/8/2022 40.25 (1)						 	
12/9/2022 40.26 (1)						 	
MW25 5,819.84 40.40 3/9/2023 DRY	MW25	5,819.84	40.40				
5/2/2023 DRY						 	
8/30/2023 DRY 11/30/2023 DRY						 	
11/30/2023 DRY 2/15/2024 DRY							
5/30/2024 DRY							

			TAB	LE 6		
			GROUNDWATE	ER ELEVATION		
			Har	e 15		
			Hilcorp Ener	gy Company		
			San Juan Coun	ty, New Mexico		
MW25			11/21/2024	DRY	 	
			5/21/2021	32.58	 	5,789.77
			9/27/2021	32.57	 	5,789.78
			4/22/2022	32.49	 	5,789.86
			9/8/2022	32.57	 	5,789.78
			12/9/2022	32.56	 	-32.56
MW26	5,822.35	40.52	3/9/2023	32.52	 	-32.52
WWZO	3,022.33	40.52	5/2/2023	32.58	 	-32.58
			8/30/2023	32.70	 	-32.70
			11/30/2023	32.63	 	-32.63
			2/15/2024	32.58	 	-32.58
			5/31/2024	32.60	 	-32.60
			11/21/2024	33.16	 	-33.16
			9/27/2021	40.46 (1)	 	
			4/22/2022	39.48 (1)	 	
			9/8/2022	39.95 (1)	 	
			12/9/2022	39.96 (1)	 	
8414/07	5 040 50	40.00	3/9/2023	DRY	 	
MW27	5,818.56	.56 40.60	5/2/2023	39.90 (1)	 	
			8/30/2023 11/30/2023	40.01 (1)	 	
			2/15/2024	40.03 (1) 39.98 (1)	 	
			5/31/2024	39.93 (1)	 	
			11/21/2024	40.03 (1)	 	
			9/27/2021	DRY	 	
		.12 40.61	4/22/2022	DRY	 	
			9/8/2022	39.95 (1)	 	
			12/9/2022	39.97 (1)	 	
			3/9/2023	DRY	 	
MW28	5,815.12		5/2/2023	DRY	 	
			8/30/2023	DRY	 	
			11/30/2023	DRY	 	
			2/15/2024	DRY	 	
			5/31/2024	DRY	 	
			11/21/2024	DRY	 	
			9/27/2021	39.75	 	-39.75
			4/22/2022	39.66	 	-39.66
			9/8/2022	39.73	 	-39.73
			12/9/2022	39.74	 	-39.74
MW29	5,829.68	48.10	3/9/2023 5/2/2023	39.70 39.75	 	-39.70 -39.75
1414473	3,029.00	70.10	8/30/2023	38.82	 	-39.75 -38.82
			11/30/2023	39.76	 	-39.76
			2/15/2024	39.37	 	-39.37
			5/30/2024	39.78	 	-39.78
			11/21/2024	40.43	 	-40.43
			9/8/2022	44.96	 	5,789.76
			12/9/2022	44.91	 	-44.91
			3/9/2023	44.89	 	-44.89
			5/2/2023	44.90	 	-44.90
MW30	5,834.72	54.74	8/30/2023	44.98	 	-44.98
			11/30/2023	44.94	 	-44.94
			2/16/2024	44.94	 	-44.94
			5/30/2024	44.96	 	-44.96
			11/22/2024	45.47	 	-45.47

			TAR	LE 6			
				ER ELEVATION			
				e 15			
				gy Company			
				ity, New Mexico			
			9/8/2022	45.02			5,789.86
			12/9/2023	44.98			-44.98
			3/9/2023	44.94			-44.94
			5/2/2023	45.00			-45.00
MW31	5,834.88	53.55	8/30/2023	45.05			-45.05
			11/30/2023	44.97			-44.97
			2/16/2024 5/30/2024	45.00			-45.00
			11/22/2024	45.02 45.58			-45.02 -45.58
	<u> </u> 	<u> </u>	9/8/2022	40.04 (1)			-45.56
			12/9/2022	34.75			 -34.75
			3/9/2023	34.03			-34.03
			5/2/2023	36.45			-36.45
MW32	5,821.84	40.18	8/30/2023	38.59			-38.59
	,		11/30/2023	DRY			
			2/15/2024	DRY			
			5/30/2024	DRY			
			11/22/2024	DRY			
			9/8/2022	33.51			5,774.73
			12/9/2022	32.92			-32.92
			3/9/2023	32.75			-32.75
			5/2/2023	32.72			-32.72
MW33	5,808.24	47.87	8/30/2023	33.52			-33.52
			11/30/2023	33.07			-33.07
			2/16/2024	32.79			-32.79
			5/31/2024	29.96			-29.96
			11/22/2024	33.24			-33.24
		00 43.64	9/8/2022 12/9/2022	33.00 32.47			5,774.90 -32.47
			3/9/2023	32.47			-32.47
			5/2/2023	32.29			-32.29
MW34	5,807.90		8/30/2023	33.16			-33.16
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11/30/2023	32.71			-32.71
			2/16/2024	32.37			-32.37
			5/31/2024	32.62			-32.62
			11/22/2024	32.82			-32.82
			9/8/2022	47.22			5,756.42
			12/9/2022	46.85			-46.85
			3/9/2023	46.80			-46.80
			5/2/2023	46.78			-46.78
MW35	5,803.64	53.75	8/30/2023	47.33			-47.33
			11/30/2023	47.28			-47.28
			2/16/2024	47.17			-47.17
			5/31/2024	47.27			-47.27
	<u> </u>	1	11/22/2024	47.46			-47.46
			9/9/2022	45.54 45.54			5,789.72
			12/9/2022 3/9/2023	45.54 DRY			-45.54
			5/2/2023	45.55			 -45.55
MW38	5,835.26	53.12	8/30/2023	45.62 45.62			-45.62
	3,000.20	00.12	11/30/2023	45.57			-45.57
			2/16/2024	45.56			-45.56
			5/30/2024	45.58			-45.58
			11/22/2024	45.04			-45.04
	I.	<u> </u>	,,	10.0 7	<u> </u>	<u> </u>	10.07



TABLE 6 GROUNDWATER ELEVATION Hare 15 Hilcorp Energy Company San Juan County, New Mexico

Notes:

(1): water measured in well is not indicative of the perched groundwater aquifer at the Site

AMSL: above mean sea level

BTOC: below top of casing

--: indicates no GWEL or PSH measured

When product is present, the groundwater elevation is corrected using an estimated density correction factor of 0.8



		TABLE 7						
	GROUND	WATER ANAL	YTICAL RESUL	TS				
		Hare 15	5					
		Hilcorp Energy (Company					
	Sa	n Juan County, l	New Mexico					
Monitoring Well	Date	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)			
NMWQCC Sta	ındard	5	1,000	700	620			
	2/17/2021		We	ell Dry				
	9/28/2021	1,200 14 9.1 9, 0						
	9/8/2022	·	We	ell Dry				
MW01	3/9/2023	1,900	<50	400	7,500			
	5/3/2023	1,800	<50	380	6,400			
	8/30/2023	2,700	<50	240	8,300			
	11/30/2023	2,600	<50	290	4,500			
	2/15/2024	2,200	<50	330	3,100			
	6/3/2024	1,700	<50	220	3,500			
	11/21/2024		We	ell Dry				
	2/17/2021		We	ell Dry				
	9/28/2021		We	ell Dry				
MW02	9/8/2022	Well Dry						
	3/9/2023	Well Dry						
	5/2/2023	Well Dry						
	2/15/2024	Well Dry						
	6/3/2024	Well Dry						
	11/21/2024		We	ell Dry				
	2/17/2021	No Sample Collected, PSH Present						
	9/28/2021		No Sample Colle	ected, PSH Present				
	9/8/2022		No Sample Colle	ected, PSH Present				
1.00	3/9/2023	No Sample Collected, PSH Present						
MW03	5/2/2023		No Sample Colle	ected, PSH Present				
	2/15/2024			ected, PSH Present				
	6/3/2024			ected, PSH Present				
	11/21/2024		No Sample Colle	ected, PSH Present				
	2/17/2021		No Sample Colle	ected, PSH Present				
	9/28/2021			ected, PSH Present				
	9/8/2022		No Sample Colle	ected, PSH Present	_			
B 43 4 (O 4 A	3/9/2023		No Sample Colle	ected, PSH Present				
MW04A	5/2/2023		No Sample Colle	ected, PSH Present				
	2/15/2024		•	ected, PSH Present				
	6/3/2024		•	ected, PSH Present				
	11/21/2024		No Sample Colle	ected, PSH Present				
	2/17/2021		We	ell Dry				
	9/28/2021		We	ell Dry				
	9/8/2022		We	ell Dry				
MW04B	3/9/2023		We	ell Dry				
IVIVVU4D	5/2/2023		We	ell Dry				
	2/15/2024		We	ell Dry				
	6/3/2024			ell Dry				
	11/21/2024		We	ell Dry				

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	GROUND	TABLE 7 DWATER ANALYTICAL RESULTS						
	Sitoons	Hare 15		J				
		Hilcorp Energy						
	Sa	n Juan County,	New Mexico					
Monitoring Well	Date	Benzene (μg/L)			Total Xylenes (μg/L)			
NMWQCC Star	ndard	5	1,000	700	620			
	2/17/2021	110	7.7	27	48			
	9/28/2021	210	<5.0	8.0	130			
MW06	9/9/2022	160	<5.0	<5.0	70			
	3/9/2023	110	8.2	<5.0	32			
	5/3/2023	70	<5.0	<5.0	<10			
	8/30/2023	<1.0	<1.0	<1.0	<2.0			
	11/30/2023	130	<2.0	13	310			
	2/16/2024	7	<5.0	<5.0	<7.5			
	5/31/2024	51	<5.0	<5.0	7.7			
	11/21/2024	<5.0	<5.0	<5.0	<7.5			
	2/17/2021	No Sample Collected, PSH Present						
	9/28/2021	No Sample Collected, PSH Present						
NAVA (O.7.	9/8/2022	No Sample Collected, PSH Present						
	3/9/2023	No Sample Collected, PSH Present						
MW07	5/2/2023		No Sample Collec	cted, PSH Present				
	2/15/2024	4,400	10,000	1,400	32,000			
	5/31/2024		No Sample Collec	cted, PSH Present	•			
	11/21/2024		No Sample Collec	cted, PSH Present				
	2/17/2021		Wel	l Dry				
	9/28/2021		Wel	l Dry				
	9/8/2022		Wel	l Dry				
	3/9/2023		Wel	l Dry				
MW08	5/2/2023		Wel	l Dry				
	2/15/2024	20	<5.0	13	<7.5			
	6/3/2024	74	<2.0	58	35			
	11/21/2024		Wel	l Dry				
	2/17/2021	37	<5.0	99	230			
	9/28/2021	140	<5.0	200	280			
MW09	9/9/2022	63	<5.0	48	250			
	3/9/2023	60	<5.0	180	270			
	5/3/2023	40	<5.0	110	220			
	8/31/2023	26	<5.0	100	200			
	11/30/2023	13	<5.0	73	110			
	2/15/2024	13	<5.0	68	90			
	6/3/2024	36	<5.0	100	170			
	11/21/2024			ume to sample				

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TABLE 7						
	GROUND	WATER ANAL	YTICAL RESULT	S		
		Hare 1	5			
		Hilcorp Energy	Company			
	Sa	n Juan County,	New Mexico			
		Benzene	Toluene	Ethyl-	Total	
Monitoring Well	Date	(µg/L)	(μg/L)	benzene	Xylenes	
NMWQCC Sta	an dead	5	4.000	(μg/L)	(μg/L)	
NIWIVVQCC 3ta	2/17/2021	5	1,000	700	620	
	9/28/2021	No Sample Collected, PSH Present				
	9/8/2022	No Sample Collected, PSH Present No Sample Collected, PSH Present				
	3/9/2023	No Sample Collected, PSH Present				
MW10	5/2/2023	No Sample Collected, PSH Present No Sample Collected, PSH Present				
	2/15/2024	6 000	<u> </u>		29 000	
	6/3/2024	6,900	15,000 13,000	1,500 1,600	28,000	
	11/21/2024	6,400		, ,	29,000	
				ume to sample		
	2/17/2021	3,500	4,500	320	11,000	
	9/28/2021	3,400	7,500	650	11,000	
	9/9/2022	2,800	8,200	630	11,000	
	3/9/2023	1,900	5,000	320	7,800	
MW11	5/2/2023			ted, PSH Present		
MVV11	8/30/2023	2,900	8,600	460	14,000	
	11/30/2023	1,900	2,100	90	11,000	
	2/15/2024		•	ted, PSH Present		
	6/3/2024	2,300	3,900	290	14,000	
			Insufficient vol	ume to sample		
	2/17/2021	No Sample Collected, PSH Present				
	9/28/2021		No Sample Collec	ted, PSH Present		
	9/8/2022		No Sample Collec	ted, PSH Present		
MMA/4.0	3/9/2023		No Sample Collec	ted, PSH Present		
MW13	5/2/2023		No Sample Collec	ted, PSH Present		
	2/15/2024		No Sample Collec	ted, PSH Present		
	6/3/2024		No Sample Collec	ted, PSH Present		
	11/21/2024		No Sample Collec	ted, PSH Present		
	2/17/2021		Wel	l Dry		
	9/28/2021	32	5.2	8.2	120	
	9/9/2022	16	33	13.0	250	
	3/9/2023	6.3	10	<5.0	130	
	5/3/2023	9.0	14	<5.0	130	
MW14	8/31/2023	8.1	11	<5.0	86	
	11/30/2023	21	51	9	300	
	2/16/2024	12	15	3	99	
	5/30/2024	3.6	9.8	2	130	
	11/21/2024	2.3		I Dry		
	2/17/2021		· · · · · · · · · · · · · · · · · · ·	cted, PSH Present		
	9/28/2021		•	cted, PSH Present		
MW15	9/8/2022			cted, PSH Present		
	3/9/2023		· · · · · · · · · · · · · · · · · · ·	cted, PSH Present		
	5/2/2023	4.460	-	ted, PSH Present	20.522	
	2/16/2024	1,400	3,800	580	22,000	

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		TABLE WATER ANAL` Hare 15 Hilcorp Energy (YTICAL RESULT	-s				
		n Juan County, l						
Monitoring Well	Date	Benzene Toluene Ethyl- (μg/L) (μg/L) (μg/L)						
NMWQCC Sta	ndard	5	1,000	700	620			
NA/45	6/3/2024	1,400	4,100	1,200	28,000			
MW15	11/21/2024		No Sample Collec	cted, PSH Present				
	2/17/2021	No Sample Collected, PSH Present						
	9/28/2021		No Sample Collec	cted, PSH Present				
	9/8/2022	No Sample Collected, PSH Present						
	3/9/2023		No Sample Collec	cted, PSH Present				
MW16	5/2/2023		No Sample Collec	cted, PSH Present				
	2/15/2024	No Sample Collected, PSH Present						
	6/3/2024	No Sample Collected, PSH Present						
	11/21/2024		No Sample Collec	cted, PSH Present				
	2/17/2021	Well Dry						
	9/28/2021	Well Dry						
	9/8/2022	Well Dry						
	3/9/2023	Well Dry						
MW18	5/2/2023	Well Dry						
	2/16/2024	<2.0 <2.0 <2.0 <3.0						
	6/3/2024	Insufficient volume to sample						
	11/21/2024		Wel	l Dry				
	2/17/2021	660	390	520	2,800			
	9/28/2021	720	140	790	1,400			
	9/9/2022	320	150	670	1,300			
	3/9/2023	310	74	600	900			
MA/40	5/3/2023	240	38	530	690			
MW19	8/30/2023	350	130	680	1,100			
	11/30/2023	510	280	630	2,400			
	2/16/2024	640	310	640	2,300			
	5/30/2024	410	260	530	2,000			
	11/21/2024	<2.0 P2	<2.0 P2	<2.0 P2	<3.0 P2			
	2/17/2021	12,000	15,000	1,100	10,000			
	9/28/2021	11,000	12,000	610	5,100			
	9/9/2022	11,000	14,000	1,200	9,500			
	3/9/2023	11,000	15,000	1,100	10,000			
MANAGO	5/3/2023	12,000	15,000	1,100	10,000			
MW20	8/30/2023	13,000	20,000	1,200	13,000			
	12/4/2023	12,000	18,000	1,200	12,000			
	2/15/2024	12,000	14,000	1,200	11,000			
	5/31/2024	14,000	19,000	670	13,000			
	11/21/2024	10,000	8,100	800	6,300			

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	CROUND	TABLE 7 GROUNDWATER ANALYTICAL RESULTS						
	GROUND	WATER ANALY Hare 15						
		наге то Hilcorp Energy (
		n Juan County, N						
				Ethyl-	Total			
Monitoring Well	Date	Benzene (μg/L)	Toluene (μg/L)	benzene (µg/L)	Xylenes (μg/L)			
NMWQCC Sta	andard	5	1,000	700	620			
	9/28/2021	Well Dry						
	9/8/2022	Well Dry						
	3/9/2023	Well Dry						
MW21	5/2/2023		Wel	l Dry				
	2/15/2024			l Dry				
	5/31/2024		Wel	l Dry				
	11/21/2024		Wel	l Dry				
	9/28/2021	2,000	1,500	890	3,000			
	9/9/2022	640	230	660	1,300			
	3/9/2023	650	180	640	880			
	5/2/2023	610	150	620	700			
MW22	8/30/2023	710	280	770	750			
	12/4/2023	620	180	740	780			
	2/15/2024	920	480	770	1,200			
	5/31/2024	560	230	860	690			
	11/21/2024	24	<5.0	110	<7.5			
	9/28/2021	<2.0	<2.0	<2.0	<3.0			
	9/9/2022	<2.0	<2.0	<2.0	<4.0			
	3/9/2023	<2.0	<4.0					
	5/2/2023	<2.0	<2.0	<2.0	<4.0			
MW23	8/30/2023	<2.0	<2.0	<2.0	<4.0			
	11/30/2023	<2.0	<2.0	<2.0	<3.0			
	2/16/2024	<2.0	<2.0	<2.0	<3.0			
	5/30/2024	<2.0	<2.0	<2.0	<3.0			
	11/22/2024	<2.0	<2.0	<2.0	<3.0			
	9/28/2021	<2.0	<2.0	<2.0	<3.0			
	9/8/2022	<1.0	<1.0	<1.0	<2.0			
	3/9/2023	<1.0	<1.0	<1.0	<2.0			
	5/2/2023	<1.0	<1.0	<1.0	<2.0			
MW24	8/30/2023	<1.0	<1.0	<1.0	<2.0			
	11/30/2023	<1.0	<1.0	<1.0	<1.5			
	2/16/2024	<2.0	<2.0	<2.0	<3.0			
	5/30/2024	<1.0	<1.0	<1.0	<1.5			
	11/21/2024		Wel	l Dry				
	9/28/2021		Wel	l Dry				
	9/8/2022		Wel	l Dry				
	3/9/2023		Wel	l Dry				
MW25	5/2/2023		Wel	l Dry				
	2/15/2024		Wel	l Dry				
	5/30/2024		Wel	l Dry				
	11/21/2024		Wel	l Dry				

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		TABLE 7						
GROUNDWATER ANALYTICAL RESULTS								
		Hare 15						
		Hilcorp Energy (Company					
	Sa	n Juan County, I	New Mexico					
		Benzene	Toluene	Ethyl-	Total			
Monitoring Well	Date	(μg/L)	(μg/L)	benzene (μg/L)	Xylenes (μg/L)			
NMWQCC Stan	dard	5	1.000	(μg/L) 700	(μg/L) 620			
Nim V Q O O Call	9/28/2021	9,700	24,000	830	11,000			
	9/9/2022	11,000	27,000	850	11,000			
	3/9/2023	10,000	28,000	820	11,000			
	5/2/2023	11,000	29,000	840	12,000			
MW26	8/30/2023	12,000	31,000	810	12,000			
WWVZO	11/29/2023	10,000	25,000	730	9,800			
	2/15/2024	11,000	26,000	740	11,000			
	5/31/2024	13,000	32,000	970	13,000			
	11/21/2024	13,000	31,000	810	12,000			
	9/28/2021		Wel	l Drv				
	9/8/2022							
MW27	3/9/2023	Well Dry Well Dry						
	5/2/2023	Well Dry						
	2/15/2024	Well Dry						
	5/31/2024	Insuffiecient volume to sample						
	11/21/2024	Insuffiecient volume to sample						
	9/28/2021	Well Dry						
	9/8/2022	Well Dry						
	3/9/2023		Wel	l Dry				
MW28	5/2/2023		Wel	l Dry				
	2/15/2024			l Dry				
	5/31/2024	Well Dry						
	11/21/2024		Wel	l Dry				
	9/28/2021	12	5.9	17	34			
	9/9/2022	4.1	3.9	34	7.9			
	3/9/2023	<1.0	<1.0	50	2.3			
	5/2/2023	<1.0	<1.0	30	<2.0			
MW29	8/30/2023	<1.0	<1.0	35	<2.0			
	11/29/2023	3.0	3.2	45	8.8			
	2/15/2024	<2.0	<2.0	<2.0	<3.0			
	5/30/2024	<1.0	<1.0	45	<1.5			
	11/21/2024	<2.0	<2.0	<2.0	<3.0			
MW30	9/8/2022	1,900	8,500	1,000	13,000			
	3/9/2023	680	1,700	1,000	10,000			
	5/2/2023	580	990	930	7,500			
	8/30/2023	390	190	1,100	8,800			
	11/29/2023 2/16/2024	420 50	150 <50	980 85	7,800 570			
	5/30/2024		200					
	11/22/2024	760 460	30	1,200 990	9,600 5,400			
	1 1/22/2024	400	30	330	5,400			

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		TABLE WATER ANALY Hare 15 Hilcorp Energy C n Juan County, N	TICAL RESULT	rs				
Monitoring Well	Date	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)			
NMWQCC Sta	andard	5	1,000	700	620			
	9/8/2022	<2.0	<2.0	<2.0	<4.0			
	3/9/2023	<2.0	<2.0	<2.0	<4.0			
	5/2/2023	<1.0	<1.0	<1.0	<2.0			
B 41 A / O 4	8/30/2023	<2.0	<2.0	<2.0	<4.0			
MW31	11/29/2023	<2.0	<2.0	<2.0	<3.0			
	2/16/2024	<2.0	<2.0	<2.0	<3.0			
	5/30/2024	<1.0	<1.0	<1.0	<1.5			
	11/22/2024	<1.0	<1.0	<1.0	<1.5			
	9/8/2022		We	II Dry	<u> </u>			
	3/9/2023	<2.0	<2.0	<2.0	<4.0			
	5/3/2023	<1.0	<1.0	<1.0	<2.0			
MW32	8/31/2023	<2.0	<2.0	<2.0	<4.0			
WWOZ	2/15/2024	Well Dry						
	5/30/2024	Well Dry						
	11/21/2024		We	II Dry				
	9/8/2022	3.7	19	4.4	38			
	3/9/2023	4.8	<1.0	1.7	<2.0			
	5/2/2023	9.7	<1.0	1.8	<2.0			
	8/30/2023	<1.0	<1.0	<1.0	<2.0			
MW33	12/4/2023	3.6	<1.0	<1.0	<1.5			
	2/16/2024	2.1	<1.0	<1.0	<1.5			
	5/31/2024	<1.0	<1.0	<1.0	<1.5			
	11/22/2024	<1.0	<1.0	<1.0	<1.5			
	9/9/2022	<1.0	<1.0	<1.0	<2.0			
	3/9/2023	<1.0	<1.0	<1.0	<2.0			
	5/2/2023	<1.0	<1.0	<1.0	<2.0			
	8/30/2023	<1.0	<1.0	<1.0	<2.0			
MW34	12/4/2023	<1.0	<1.0	<1.0	<1.5			
	2/16/2024	<1.0	<1.0	<1.0	<1.5			
	5/31/2024	<1.0	<1.0	<1.0	<1.5			
	11/22/2024	<1.0	<1.0	<1.0	<1.5			
MW35								
	9/9/2022	<1.0	<1.0	<1.0	<2.0			
	3/9/2023	<1.0	<1.0	<1.0	<2.0			
	5/2/2023	<1.0	<1.0	<1.0	<2.0			
	8/30/2023	<1.0	<1.0	<1.0	<2.0			
	12/4/2023	<1.0	<1.0	<1.0	<1.5			
	2/16/2024	<1.0	<1.0	<1.0	<1.5			
	5/31/2024 11/22/2024	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <1.5			

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TABLE 7 GROUNDWATER ANALYTICAL RESULTS Hare 15 **Hilcorp Energy Company** San Juan County, New Mexico Ethyl-Total Benzene Toluene **Monitoring Well** Date Xylenes benzene (µg/L) (µg/L) (µg/L) (µg/L) **NMWQCC Standard** 5 1,000 700 620 9/9/2022 <1.0 <2.0 <1.0 Well Dry 3/9/2023 <1.0 <1.0 <1.0 <2.0 5/2/2023 8/30/2023 <1.0 <1.0 <1.0 <2.0 MW38 11/29/2023 <1.0 <1.0 <1.0 <1.5 2/16/2024 <1.0 <1.0 <1.0 <1.5 5/30/2024 <1.0 <1.0 <1.0 <1.5 11/22/2024 <1.0 <1.0 <1.0 <1.5

Notes:

μg/L: micrograms per liter

NMWQCC: New Mexico Water Quality Control Commision

PSH: phase separated hydrocarbons

Bold and highlighted: indicates value exceeds the NMWQCC Standard

<: indicates result is less than the stated laboratory reporting limit

P2 : The sample was received with pH>2



TABLE 8 PSH RECOVERY SUMMARY Hare 15 Hilcorp Energy Company San Juan, New Mexico							
Boring/Well Number	Date	Product Thickness (feet)	Product Recovered (ounces)				
MW03	10/7/2020 9/28/2021 11/24/2021 1/7/2022 3/2/2022 4/22/2022 12/9/2022 5/3/2023 8/30/2023 11/30/2023 2/15/2024 6/3/2024	2.76 0.14 0.16 0.11 0.07 0.08 0.10 0.12 0.03 0.01	128.00 1.75 1.00 2.00 19.00 24.00 2.00 2.00 21.00 8.50 7.00 <1				
MW04A	9/30/2020 10/2/2020 10/7/2020 9/28/2021 11/24/2021 1/7/2022 3/2/2022 4/22/2022 12/9/2022 5/3/2023 8/30/2023 11/30/2023 2/15/2024 6/3/2024	0.49 1.83 0.51 0.25 0.30 0.19 0.21 0.18 0.13 0.14 0.03 0.02	5.00 100.00 32.00 1.50 4.00 10.00 5.00 18.00 4.00 4.00 14.00 5.00 3.00				

0.67

0.49

0.53

0.04

Sheen

0.32

0.35

0.20

0.22

0.01

32.00

5.00

16.00

0.50

0.50

14.00

15.00

5.00

6.00

13.00

2.50

4.00

9/30/2020

10/2/2020

10/7/2020

11/24/2021

1/7/2022

3/2/2022

4/22/2022

12/9/2022

5/3/2023

8/30/2023

11/30/2023

5/31/2024

MW07

ENSOLUM

TABLE 8									
PSH RECOVERY SUMMARY									
	Hare 15								
Hilcorp Energy Company									
San Juan, New Mexico									
Boring/Well		Product	Product						
Number	Date	Thickness	Recovered						
		(feet)	(ounces)						
	9/30/2020	1.02	64.00						
	10/2/2020	0.45	4.00						
	10/7/2020	0.59	16.00						
	9/28/2021	0.28	6.00						
	11/24/2021	0.21	4.00						
MW10	1/7/2022	0.08	1.00						
	3/2/2022	0.02	13.00						
	4/22/2022	ND	8.50						
	12/9/2022	ND	0.00						
	5/3/2023	Sheen	0.00						
	8/30/2023		<1.00						
	11/30/2023		<1.00						
MW12	9/30/2020	0.38	5.00						
	10/2/2020	0.36	3.00						
MW11	2/15/2024	0.03	<1						
	9/28/2021	0.11	0.50						
	11/24/2021	0.13	1.00						
	1/7/2022	0.08	1.00						
	3/2/2022	0.15	1.50						
	4/22/2022	0.12	1.00						
MW13	12/9/2022	0.08	2.00						
	5/3/2023	0.16	3.00						
	8/30/2023	0.11	13.00						
	11/30/2023		5.00						
	2/15/2024	0.05	1.50						
	6/3/2024	0.01	<1						
	9/28/2021	0.60	26.00						
	1/7/2022	0.11	7.00						
NANA/4 E	3/2/2022	ND	8.50						
MW15	4/22/2022	ND ND	17.00						
	12/9/2022	ND Shoon	0.00						
	5/3/2023	Sheen	0.00 1.50						
	11/30/2023	0.52							
	9/28/2021 1/7/2022	0.53 0.41	50.00						
	3/2/2022	0.41	20.00 29.50						
	3/2/2022 4/22/2022	0.41	29.50 54.00						
MW16			54.00 6.00						
IVIVVIO	12/9/2022 5/3/2023	0.39 0.37	6.00						
	11/30/2023	U.31 	0.25						
	2/15/2024	0.32	24.50						
	6/3/2024	0.32 *	33.00						
	0/3/2024		55.00						

Ensolum Page 27 of 28



TABLE 8 PSH RECOVERY SUMMARY Hare 15 **Hilcorp Energy Company** San Juan, New Mexico Product **Product Boring/Well Thickness Date** Recovered Number (feet) (ounces) **Total Recovered (gallons)** 7.62

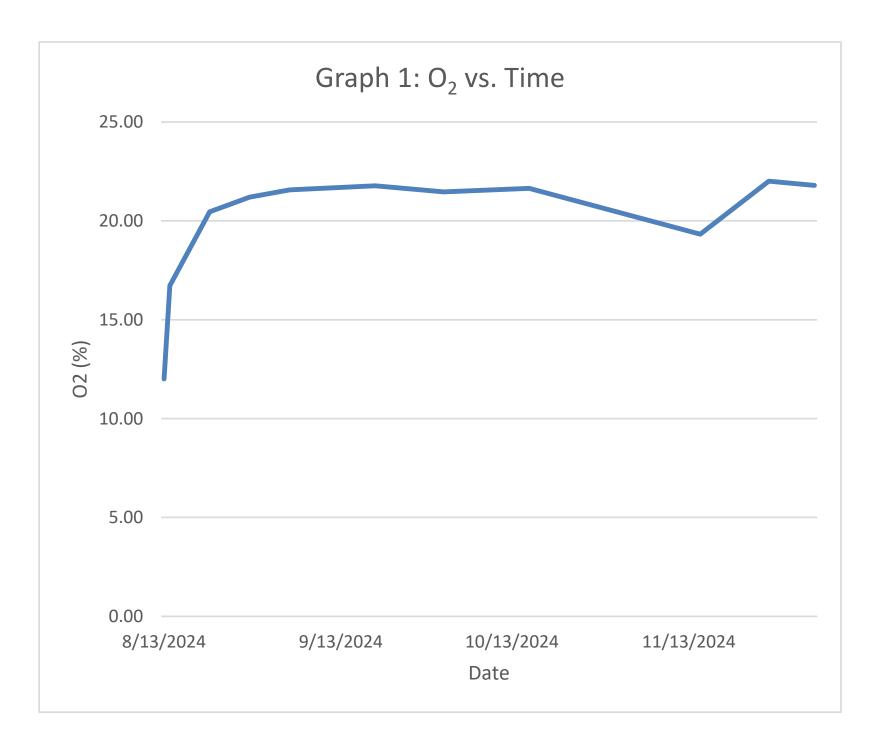
Notes:

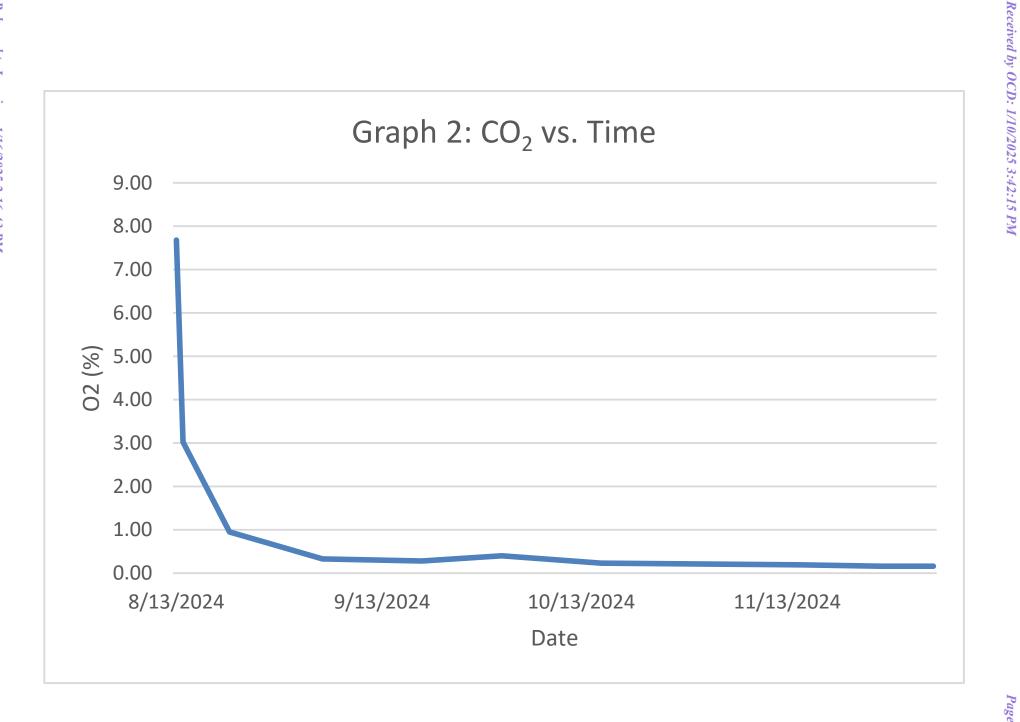
ND: not detected

Ensolum Page 28 of 28

^{*:} Product recovered during sampling but was not detected with probe.

Received by OCD: 1/10/2025 3:42:15 PM







APPENDIX A

O&M Field Notes

Mare 15

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private Dane HBC Clear, Swany, 705 DB Trucklads, HVAS, PD

.0930-Unsite for contid O+M. System running upon arrival, no looks noticeable hydrocarton odor from exhaust, observable liquids in rotumeters.

Readings @ 10.20 Blower Hrs - 1,031.1 T. Pump Hrs - 68, 4 Totalizer - 22597.33 138.1 gal since 9-30 € 17:10 Pre KO vac - 8.5 in Hg Post " " - 7.5 in Hg Fresh Air Bypuss - open 25 relations Post Filter vac - 8.0 mHg Exhaust Temp - 160 F Pressure O in H20 " Flow - 0.45 inthe Pressuis Ex. PID-2,019 ppm ~ 300 SCFM

lines of liquids

British Hare			Der. 101-54
NC.	OHM	cont'd	
Manifold R	padin	150 10:	45
/ countrol	MAUL	Flausch	M Lewist ?
Well Yac	July .	66	minimal
MW01 8.0		74	Y
06 7.5		14	V -
08 6.0		~100	Υ'
09 7.5		60	Y
10 7.0		~100	- 1
11 7.5			
13 7.5		52	J
14 9.5		60	Minut
15 7.5		TO	Monimal
16 6.0		58	N.
well head r	eadin	95@	15:00
well You	PID	Oc	CO2 CHY
01 6.0	326		
06 6.0	409	+	+
408 5.0	79		-
09 5.0	57		Gas not
	834	(working.
11 6.0	592		Wolf in J
13.8 8.0	552		Sensor
14 7.0	143		Out.
15 6.5	386.		
16 6.0	112	<	
Released to Imaging: 1/16/2025 2:16:43 PM	pen on c	am lock t	s let airing

Released to Imaging: 1/16/2025 2:16:43 PM

69-12

Date 10 2-74

DB Truck/tods

running upon arrivel.

- Check wye strainer, clean out

-Flush clean out float stem tube. Floats are clean

-Clean system trailer, check on oil drys from 6 lower & motor.

- Need spare betts grease, oil look to replace float stem w/ lower HH to turn TPon earlier.

-TP stalled out hulfway the Gypass
so lowered vac by opening the Gypass
-@ 6.5 in Hg post KO vac

1135- TP total 22,743.57 gd TP Hrs-68.8 Blower-1,055.6

	n Hare					10-2 reezy, i	
DE			s, 6 gas,	ILVA	s, PII	5	
							I
1013	5-0nsi	te tor	- 041	4. 5	yster	n ru	nn
Re	adings (211:0	0		-		+
	lower 1			-1			t
	Pump 1		and the same of th				T
1	stalizer	- 2	3,2	28	52	gae	
	re KO i				Δ-	484.	94
10	st Ko	vec- 6			90	10-2-	21
0	resh Air	Pypas		01. 6		611	3
F	st Filt	Temp	10000	in H	3	1	+
		Pressur		intle	8	1	+
	CC		- 0.55			350	×
	~	PID -	- 538				
1.1	anifold	-	5 @ 11	25			L
We OI	1	- Flow	- 0	ds We	11 Va	1	2
06	6.0	15	Minima	113	6.5	100	1
08	5.0	10	MINIMA	1 10	8.0	52	1
09	6.0	~100	Yes	15	6.0	60	1
10	5.5	90	No	16	4.5	18	4
1-1					1	1	1
				co	mi	Rete un son	ľ

Received by OCD: 1/10/2025 3:	1.1	re 15		10	1-14-24
Project	/ Chant HE	c	A: 1	. (
DB		04/	cont	of - vol 1.	-vol 1
Well.	Val	PIDGE	" Ozvol	(02	CHY
01	5.0	316	17.7	0.24	0.07
06	4.5	59	17.5	0.14	0.00
08	5.5	24	17.7	0.24	0.02
09	4.0	114	17.5	0.36	0.03
10	4.0	1,352	(b.8	0.40	0.11
11	5.0	1,040	17.1	030	0.25
	7.0	89	17.7	0.02	0.04
13	5.0	209	17.3	0.24	0.08
15	5,0	451	16.8	0.46	0.24
-	5.0	212	17.3	0.08	0.04
16	3.0	41-	11.0		
Influent		775	17.5	0.28	0.22
- mileoni			11,1		
1345 -	Turn	off suste	m to	cleun t	
che	ck be	off syste			
9.					
1600-	- Repla	aced be	145		
	1				-
-clean	ed K	O sight	tube	Liloat	2
-cleane		e strai			
1620-	Turn	system	back	cob	
1715	offs	to			
Released to Imaging: 1/16/2023		1			

Date 10-16-24 59 Location Have 15 Clardy, breezy, 705. of rain Project / Client MEC DB/AL Truck/todo, HVAS, PID, 6-gas 1300-Onsite for OHM. Pevicw 11ASP Sign JSA System running upon arrival. See OAM form for details. cleaned suye strainer float stemt tube - All sotameters System off @ 14:57 fakes ~2 minutes for TP to drain from lowest float to just above tee tolear tube connection then about 5 gal to drain KO tank to outlet floor tube assembly 14:20 - Influent 10-16-24 PID - 389.1 collected MWOS - need 1605-system back on 1620-Offsite

Rete in the Rain

ENSOLUM

HARE IS DE SYSTEM DAM FORM

DATE 10-16-24 DAM PERSONNEL DRAL TIME OFFSITE Sistem fullning COO FIZ ; 15.7 Maps DIE ALARMS DOE SYSTEM READING Freshoir bypass -1345 391.2 Blower Hours (take photo) Post all filler vac-20.2 5.25 Exhaust pressure - 60 Print State Vacuum (InHg) Exhaust PID- 380,0 Offerential Pressure (IWC NA 160.F Exhaust Temperature 23665. 35 Gallons Transfel Pump Pheseure Transfer Pump Totalize CH4- 005 SVE SYSTEM SAMPLING Influeent 10/10/24 SAMPLE TIME: 1420 SAMPLE ID: DXYGEN (%) 19. 8 CH4 - 32 WL PID (ppm) CARBON DIOXIDE (%) 0. 22 Analytes: Sample Weekly through 0/12/24, biweekly through 11/12/24, bimonthly through 8/12/25 for TVPH (8015). BTEX (8260). Fixed Get (CO2 AND O2) OPERATING WELLS Change in Well Started 6 1340 vd/ vol / Vol % WELLHEAD MEASUREMENTS CH4 PID HEADSPACE (PPM) OXYGEN (%) CARBON DIOXIDE (%) DIFF PRESSURE (IWC) WELL ID VACUUM (IWC) 40.9 19,9 0.16 5.0 5-0 002 MWOI 0.02 13.8 0.10 5.0 MWDS 6.9 0.02 20.0 0.18 6.0 6.0 MVV08 0.02 15.2 5.0 20.0 0.24 MWOW 0.28 409.8 229.1 19.8 0.15 40 MW10 19.9 0.09 DWM 20.0 8.8 0.02 20 0.02 3.0 WWIS 71.8 19.7 0.05 0.25 5.0 MIVVIA 220.1 0.10 19,9 0.39 5.0 MW15 0.02 68.0 19.9 0.02 MW16 5.5 Influent COMMENTS/MAINTENANCE ISSUES Time. MANIFOLD MEASUREMENTS FLOW (CFM) WELL ID VACUUM (IHg) Eagle 2 - Oxy seasor offset by 3.3 vol 8 54 MW01 6.5 44 6.5 acaned out-Ystrainer MIVVDS 5.5 MVV08 14 -stem + float 5.0 50 **WWW** 60 MYVIO 6.0 - retaineters MYVIT 6.5 58 23 7.5 CLVVM 48 MW14 MW15 62

MWIE

Received by OCD: 1/1	0/2025 3:42:15 PM Project	/ Client	in U.		Date 104	Pag	e 51 of 252
	Tou	ck/tool	1m Hi s, 4gas	corp Aa	carl 12:	3/Zy	catio
			1 1/2	r Engle 2	PID,	Hu	project
	0830 0930 Taulot +	Travel	to For			wac	
	0930			ngton	Service	1926	
S	Travel +	OGBR	p/n	Has her	2	Total WA	1
	Travel + 1015	Onsita	6 Har	- 15	SNI		
		JSA, P	PE, Ca	bane	SITTE	M	
		STATE OF THE PERSON NAMED IN	III CANADA				
		Clean tu	bos, 4 9	Maine K	0 tank	Wella	E
		flush 1	re, adju	se mot	or be14	CONED	H
		Attem	o to fix	poner	handle	Connecto	
		Shr	+ 5451	m doma	, KO ta	na/tule	
		Well tub	es are p	retty clea	an, alot	of liquid	1
					4		
	Well		PIDPPM	I B		CHy	
	MWOF	70	66,1	21.4	0.02	0	
	06	7.0	26.1	21.4	0.04		
	08			21.4	0.08	1	- 1
	09	6.0	23,8		0.08	01	
	10	5.0	The second livery is not a second livery.		0.16	3	
		7.5			0.18		
	13	9.0	152.8	21.4	0.06	1	
	14	6.5	81.3	21.1	0.16		
	15	7.0	204.8	20.9	0.22	2	
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Location Hare N. Blanch Artec Date 11/6/29

Project / Client Hare 15 04M, Hellop Touch 0900 Prepegarym + load tracks 0930 Travel to Harels Readings @ 1130 Blowce Hours - 1880. Transfer Pump Hours 86.5 Auros-18,8 60.0 VFDHZ Pre Ko Vac Post 10 Vac Upe er 3 tuans Byogs Fhanst Temp Premiuse. Flow

			1	9	Page 53 of 25
System	Runny	Tark @	9 dept	4	
MWOS	-0/2u	U AC @ 16,09	Well	CEMIN	
Well	VAC	PID	Oxy.	COZ	CHY
1000 -06 -08	7.0	57.9	20,9	1260	
09	5.5				
13		170.2	20.8	1000	
19					

ed by OCD: 1/10/2025 3:42:15 PM					Page 54 o
		Recelum	35010		projec
10/1/1					
- Well		Elow	1 squids		
MWOI		40	100		
06		50	Mea		
03	5.0	2			
09	7.5	600	Van de la constant de		
10	T ()		Mary &	e de la companya del la companya de	
	2,0				
13	9.5	600	100		
14		500	Mark The second		
	7.5	700	Was 5		
	7.0	50	War and the second seco		
	Totalvi	3	2211,	70	
Det site	6 1600				
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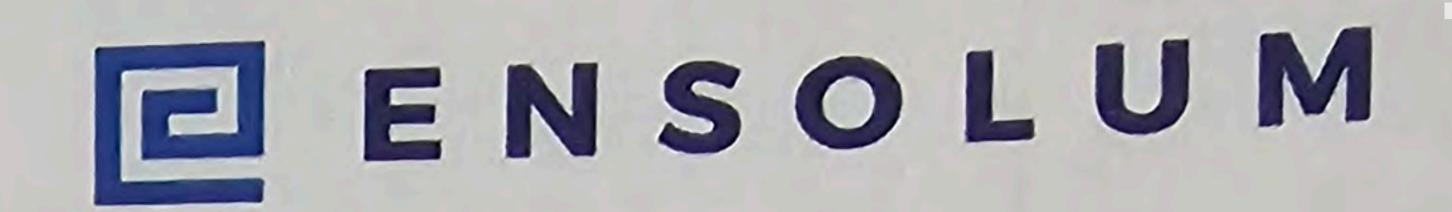
	DATE: TIME ONSITE:	11-14-24	HARE 15 D	OPE SYSTEM I FORM O&M PERSONNEL TIME OFFSITE	DB	4)
	1.0	System Running Upon Arriv	KO TANK HIGH LEVEL			
	DPE SYSTEM	READING	71111			19.7 Am
	Blower Hours (take photo)	2,069.5	1000	a salag	60 Hz	19.7 Am
	Transfer Pump Hours	95.9	1000	Motor Running Fresh Air Bypass Percent O	pen?	A A A A A A A A A A A A A A A A A A A
(0)	Pre-Filter Vacuum (InHg)	8.5		Vacuum Relief Valve Pulling	7 Y/N	
-	Post-Filter Vacuum (InHg)	7.5		Post Air Filter Vacuum (InHg	9.0	The state of the s
-	Differential Pressure (IWC)		10/ 10/10 10/10/10	Exhaust Pressure (IWC)		200
-	Exhaust Temperature	160		Exhaust Flow Diff. Pressure	(IWC) 0.35	1000
-	Transfer Pump Pressure	0		Exhaust Flow on Chart (SCF	M)	
-	Transfer Pump Totalizer	35997.93		Exhaust PID (ppm)	774	
	SAMPLE ID: PID (ppm)			M SAMPLING SAMPLE TIME	CARBON DIOXIDE (%)	1 Can (CO2 AND O2
	PID (ppm)	ample Weekly through 9/1:		SAMPLE TIME	E: CARBON DIOXIDE (%) or TVPH (8015), BTEX (8260), Fix	ed Gas (CO2 AND O2
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well			SAMPLE TIME	CARBON DIOXIDE (%)	ed Gas (CO2 AND O2
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation:		OXYGEN (%) 2/24, biweekly through 11/12/24	SAMPLE TIME A, bimonthly through 8/12/25 for	CARBON DIOXIDE (%) or TVPH (8015), BTEX (8260), Fix	CH4 (vol %)
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation: ELLHEAD MEASUREMENT	S		SAMPLE TIME A, bimonthly through 8/12/25 for OXYGEN (vol %)	CARBON DIOXIDE (%)	
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation: ELLHEAD MEASUREMENT WELL ID	S	OXYGEN (%) 2/24, biweekly through 11/12/24 PID HEADSPACE (PPM)	SAMPLE TIME A, bimonthly through 8/12/25 for	CARBON DIOXIDE (%) or TVPH (8015), BTEX (8260), Fix	CH4 (vol %) 0.02
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation: ELLHEAD MEASUREMENT WELL ID MW01	VACUUM (IWC) 7.5 7.5 7.5 7.5	OXYGEN (%) 2/24, biweekly through 11/12/24 PID HEADSPACE (PPM)	OXYGEN (vol %)	CARBON DIOXIDE (%) or TVPH (8015), BTEX (8260), Fix	CH4 (vol %) 0.02
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation: ELLHEAD MEASUREMENT WELL ID MW01 MW06	VACUUM (IWC) 7.5 7.5 7.5 7.5 7.5	PID HEADSPACE (PPM)	OXYGEN (vol %) 20.9	CARBON DIOXIDE (%) or TVPH (8015), BTEX (8260), Fix CARBON DIOXIDE (vol %) O. 08	CH4 (vol %) 0.02
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation: ELLHEAD MEASUREMENT WELL ID MW01 MW06 MW08	VACUUM (IWC) 7.5 7.5 7.5 7.5 7.5 6.5	PID HEADSPACE (PPM) 64.1	OXYGEN (vol %)	CARBON DIOXIDE (%) Or TVPH (8015), BTEX (8260), Fix CARBON DIOXIDE (vol %) O. 08	CH4 (vol %) 0.02
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation: ELLHEAD MEASUREMENT WELL ID MW01 MW06 MW08 MW09	VACUUM (IWC) 7.5 7.5 7.5 7.5 6.5 8.0	PID HEADSPACE (PPM) 64.1	OXYGEN (vol %) 20.9	CARBON DIOXIDE (%) Or TVPH (8015), BTEX (8260), Fix CARBON DIOXIDE (vol %) O. 08	CH4 (vol %) 0.02
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation: ELLHEAD MEASUREMENT WELL ID MW01 MW06 MW08 MW09 MW10	VACUUM (IWC) 7.5 7.5 7.5 7.5 6.5 8.0	PID HEADSPACE (PPM) 64.1	OXYGEN (vol %) 20.9	CARBON DIOXIDE (%) Or TVPH (8015), BTEX (8260), Fix CARBON DIOXIDE (vol %) O. 08	CH4 (vol %) 0.02
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation: ELLHEAD MEASUREMENT WELL ID MW01 MW06 MW08 MW09 MW10 MW11	VACUUM (IWC) 7.5 7.5 7.5 7.5 6.5 8.0	PID HEADSPACE (PPM) 64.1	OXYGEN (vol %) 20.9	CARBON DIOXIDE (%) Or TVPH (8015), BTEX (8260), Fix CARBON DIOXIDE (vol %) O. 08	CH4 (vol %) 0.02
WE	PID (ppm) Analytes: S OPERATING WELLS Change in Well Operation: ELLHEAD MEASUREMENT WELL ID MW01 MW06 MW08 MW09 MW10 MW11 MW13	VACUUM (IWC) 7.5 7.5 7.5 7.5 6.5 8.0	PID HEADSPACE (PPM) 64.1	OXYGEN (vol %) 20.9	CARBON DIOXIDE (%) Or TVPH (8015), BTEX (8260), Fix CARBON DIOXIDE (vol %) O. 08	CH4 (vol %) 0.02

	MANIFOLD MEASUREMEN	ITS
1	WELL ID /Liquids V/N3)	種の

WANIFULD WEASUREMEN	15	THE PERSON NAMED IN CO.
WELL ID (Liquids Y/N?)	VACUUM (IHg)	FLOW (CFM)
MW01	8.0	70
MW06	8.0	58
MW08	7.0	22
MVV09	8.5	100+
MW10	8.0	74
MW11	A3.0	56
MW13	9.5	90
MW14	10.0	60
MW15	8.0	72
MW16	7.0	48

Should Put a 0-50 scrm rulameter on MWO8

COMMENTS/MAINTENANCE ISSUES



HARE 15 DPE SYSTEM O&M FORM

DATE: 11/21/24

TIME ONSITE: 1355

O&M PERSONNEL: Avail 1345

System Running Upon Arriva (YN)?

DPE ALARMS: KO TANK HIGH LEVEL

DPE SYSTEM	READING	TIME	
Blower Hours (take photo)	2333.2	1400	Motor Running 60.0 Hz 9.7 Amps
Transfer Pump Hours	105.6		Fresh Air Bypass Percent Open? 2 1/2 two open
Pre-Fixed Vacuum (InHg)			Vacuum Relief Valve Pulling? Y/N
Post-Fixed Vacuum (InHg)	10		Post Air Filter Vacuum (InHg)
Differential Pressure (IWC)			Exhaust Pressure (IWC)
Exhaust Temperature	160°F		Exhaust Flow Diff. Pressure (IWC)
Transfer Pump Pressure			Exhaust Flow on Chart (SCFM) 280
Transfer Pump Totalizer	38387.70	1420	Exhaust PID (ppm) 512.2

SVE SYSTEM SAMPLING

SAMPLEID: Influent 112724

SAMPLE TIME:

CARBON DIOXIDE (%)

PID (ppm)

278.2

OXYGEN (%) 19.9

Analytes: Sample Weekly through 9/12/24, biweekly through 11/12/24, bimonthly through 8/12/25 for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS

Received by OCD: 1/10/2025 3:42:15 PM

Change in Well Operation:					
LLHEAD MEASUREME	NTS @ 146			PPM	
WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (vol %)	CARBON DIOXIDE	CH4 (vol %)
MW01	7.0	6.3	20.1	1120	0
MW06	7.5	75.9	20.9	1900	0
MW08	7,5	7.5	20.9	7010	0
MW09	6.5	12.2	20.7	1260	0
MW10	5.0	334.8	20.8	2122	0
MW11	7.5	142.1	20.8	1900	0
MW13	9.5	94.1	20.9	1740	()
MW14	7.5	77.9	20.9	1040	0
MVV15	7.5	441.7	20.4	3100	7
MW16	7.5	422.1	20.5	2485	

MANIFOLD MEASUREMENT	s @1415	B Barrier Barrier	COMMENTS/MAINTENANCE ISSUES	
MANIFOLD MEASUREMENTS WELL ID (Liquids Y/N?) MIW01 MIW06 MIW08 MIW09 MIW10 MIW11 MIW13 MIW14 MIW15 MIW16	VACUUM (IHg) 8.5 9.5 7.5 9.0 NA, Gauge rol (unima) 9.0 11 9.0 7.5	75 ~	-flushed line	29 meh e BG

ENSOLUM

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HARE 15 DPE SYSTEM O&M FORM

O&M FORM O&M PERSONNEL: DATE: TIME OFFSITE: 1520 TIME ONSITE: System Running Upon Arrival (YM)? KO TANK HIGH LEVEL **DPE ALARMS:** TIME **DPE SYSTEM** READING **Amps** 59.52 Motor Running 2523.4 220 Blower Hours (take photo) Fresh Air Bypass Percent Open? Transfer Pump Hours Vacuum Relief Valve Pulling? Y/N Pre-End-Vacuum (InHg) Post Air Filter Vacuum (InHg) 9.5 Post-Filter Vacuum (InHg) Exhaust Pressure (IWC) Differential Pressure (IWC) 280 Exhaust Flow Diff. Pressure (IWC) **Exhaust Temperature** 280 Exhaust Flow on Chart (SCFM) Transfer Pump Pressure 401. 38387.70 Exhaust PID (ppm) Transfer Pump Totalizer SVE SYSTEM SAMPLING Influent 12524 SAMPLE TIME: SAMPLE ID: CARBON DIOXIDE (%) 20.9 OXYGEN (%) 275.8 PID (ppm) Analytes: Sample Weekly through 9/12/24, biweekly through 11/12/24, bimonthly through 8/12/25 for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) **OPERATING WELLS**

Change in Well Operation:					
WELLHEAD MEASUREM	1130 ENTS			PPA	% DU
WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (vol %)	CARBON DIOXIDE (ver%)	
MVV01	6,0	59.	20,3	1960	0.0
MW06	6.0	116.7	209	1060	0.0
MVV08	8.0	52.3	20,8	3520	0.0
MVV09 •	~ 8.0	89.7	20.9	2650	0,5
MW10	3 5	505.6		3850	37
	5.0	385.6	20.5	3240	770 %
MW11	7,0	1476	20.7	1740	0.0
MW13	5 6	1079	20.9	2640	0.0
MW14	5.0	538.7	20.1	4880	2
MVV15	76	751.0	70.9	3230	156
MW16	7,5	191.0			

MANIFOLD MEASUREMENT	1200	
WELL ID (Liquids Y/N?)	VACUUM (IHg)	FLOW (CFM)
MVV01	9.5	55
MW06	10.0	50
	8.0	75
MVV08	10.5	~60
MW09		70
MW10		20
MW11		
MW13	700	
MW14	4/10/200	
MVV15	10.0	70
MVV16	9.0	20

COMMENTS/MAINTENANCE ISSUES

Cleaned KO/Ston XV BG7-21.5m
Flushed well has,
More depris came through and district
Stan tube more, Cleaned Stem tub zogan
-Replaced Vac Clouse Y-strainer pressy des

HARE 15 DPE SYSTEM **O&M FORM**

TIME ONSITE:

O&M PERSONNEL: TIME OFFSITE:

System Running Upon Arrival (YN)?

DPE ALARMS: KO TANK HIGH LEVEL

DPE SYSTEM	READING	TIME				
		- V	100	62	~20	Amn
Blower Hours (take photo)	2605, 2	1120	Motor Running 59	,52 Hz		Amps
Transfer Pump Hours	113.4		Fresh Air Bypass Percent Open?	2/2 open		
Pre-Eiter Vacuum (InHg)	10.5		Vacuum Relief Valve Pulling?		no Table	
Post-Pitter-Vacuum (InHg)	11.0		Post Air Filter Vacuum (InHg) 8,	0		
Differential Pressure (IWC)			Exhaust Pressure (IWC)	0		
Exhaust Temperature	150.4		Exhaust Flow Diff. Pressure (IWC)			
Transfer Pump Pressure			Exhaust Flow on Chart (SCFM) 3	00		
Transfer Pump Totalizer	38397,70		Exhaust PID (ppm) 35	58.9	1645	

SVE SYSTEM SAMPLING

SAMPLE ID:

184.4

OXYGEN (%)

CARBON DIOXIDE (%)

2820

0

SAMPLETIME: 1642

PID (ppm) Analytes: Sample Weekly through 9/12/24, biweekly through 11/12/24, bimonthly through 8/12/25 for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS

Change in Well Operation:					
LHEAD MEASUREME	NTS			PPM	
WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (vol %)	CARBON DIOXIDE (VOL-96)	CH4 (vol %)
MW01	7.5	3.9	20.9	420	0
MW06	8,0	23,9	20.9	1020	0
MW08	0.0/268.0	26.8	20.9	340	0
MW09	7.5	123.6	20,9	400	0
MVV10	4.6	484.1	20.9	5880	0
MW11	9.0	130.4	20.9	4080	Ò
MW13	10.0	13.7	20,4	1300	0
MW14	8.0	71.3	20.9	2680	0
MW15	9.0	394.7	20.9	3920	0

217,1

MANIFOLD MEASUREMENTS

MW15

MW16

VACUUM (PHE) FLOW (CFM) WELL ID (Liquida Vara) 75 Gas 10.0 MW01 60 11.0 MW06 20 9.0 MW08 11.0 75 Mirvos 80 MWTO MW11 65 10.0 MINIS 65 13.0 MM14 75 11.0 MW15 15 9.5 MANAGE l of Fluid

1.0/9.0

COMMENTOMANUTENANCE ICCUES

209

lof Fluid

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ENSOLUM

HARE 15 DPE SYSTEM O&M FORM O&M PERSONNEL: Haw L
TIME OFFSITE: 13.30 TIME ONSITE: System Running Upon Arriva (YN)? KO TANK HIGH LEVEL DPE ALARMS: TIME READING **DPE SYSTEM** Amps Motor Running 125 Blower Hours (take photo) 2/2 open Fresh Air Bypass Percent Open? 38397.70-1194 Transfer Pump Hours Vacuum Relief Valve Pulling? YA 10.5 Pre-Piker Vacuum (InHg) 10.0 Post Air Filter Vacuum (InHg) 10.0 Post Elica Vacuum (InHg) 0,5 Exhaust Pressure (IWC) Differential Pressure (IWC) 75°F Exhaust Flow Diff. Pressure (IWC) Exhaust Temperature 220 Exhaust Flow on Chart (SCFM) Transfer Pump Pressure 38397.70 Exhaust PID (ppm) Transfer Pump Totalizer SVE SYSTEM SAMPLING SAMPLE TIME: SAMPLE ID: CARBON DIOXIDE 20.8 OXYGEN (%) PID (ppm) Analytes: Sample Weekly through 9/12/24, biweekly through 11/12/24, bimonthly through 8/12/25 for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2) OPERATING WELLS Change in Well Operation: PPM CH4 (vol %) WELLHEAD MEASUREMENTS CARBON DIOXIDE (vol %) OXYGEN (vol %) PID HEADSPACE (PPM) VACUUM (IWC) WELL ID MW01 1020 0 20.8 MW06 520 80WM 1540 26.9 MW09 20.1 4.5 408.8 MW10 11.0 MW11 20. 29 1260 MW13

64.3

272.8

Alot	of	Flo
		1 1 1 1 1 A

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MW14

MW15

MW16

MANIFOLD MEASUREMENT	TS 1205	
WELL ID (Liquids Y/N?)	VACUUM (IHg)	FLOW (CFM)
MW01	9.5	56
MW06 Y	10.5	56
Fluid MW08	8.5	30
MW09 Some	10.0	75
MW10 Y	9.5	75
MW11 Y	11.0	80
MW13 Y	10.0	80 60 70
MW14 Y	12.5	70
MW15	10.0	65
MW16 NO	9.0	65 75

9.0

0.0

COMMENTS/MAINTENANCE ISSUES

20.9

20.9

20.9

BGT 11.5" 10 1215

Cleaned Ystance & Elentube

2580

4640

2140

ENSOLUM

HARE 15 DPE SYSTEM **O&M FORM**

DATE: TIME ONSITE:

O&M PERSONNEL: TIME OFFSITE:

System Running Upon Arrival (YN)?

KO TANK HIGH LEVEL DPE ALARMS:

DPE SYSTEM	READING	TIME			0.4	
Blower Hours (take photo)	3049.5		Motor Running	59, 52 Hz	18.7 A	Amps
Transfer Pump Hours	126.2		Fresh Air Bypass Percent Open	n Mes		
Pre-litter Vacuum (InHg)	12.0		Vacuum Relief Valve Pulling? Y	(D)		
Post-Filer Vacuum (InHg)	12.0		Post Air Filter Vacuum (InHg)	11.5		
Differential Pressure (IWC)	The second secon		Exhaust Pressure (IWC)			
Exhaust Temperature	135 8		Exhaust Flow Diff. Pressure (IW	(C)		
Transfer Pump Pressure			Exhaust Flow on Chart (SCFM)	20275		
Transfer Pump Totalizer	38387.60		Exhaust PID (ppm)	3420		

SVE SYSTEM SAMPLING

SAMPLE ID:

PID (ppm)

281,1

20,9 OXYGEN (%)

CARBON DIOXIDE (%)

CH4 (vol %)

Analytes: Sample Weekly through 9/12/24, biweekly through 11/12/24, bimonthly through 8/12/25 for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

SAMPLE TIME:

OPERATING WELLS

Change in Well Operation:

WELLHEAD MEASUREM	ENTS				
WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (vol %)	CARBON DIOXIDE (vol %)	
MW01	1.5	39.1	20.9	620	
MW06	7.0	53.2	2019	1080	
MW08	7.5	72.5	20.8	620	
MVV09	7.5	288.8	20.9	1830	
	VA	2791	20.1	IJUUN I	ĺ

MW10 MW11 MW13 MW14 MW15 Fluid in Telder Bong MW16

MANIEOLD MEASUREMENTS

WELL ID (Liquids Y/N?)	VACUUM (IHg)	FLOW (CFM)
MW01 Y	12.0	70
MW06 \$	11.5	50
MW08	13.5	NA NOT
MW09 Y	11.5	80
MW10 Y	12.0	65 seamn
MW11 Y	11.0	50
MW13	11.0	90
MW14 Y	9.5	70
MW15 Y	12.0	AIA Gum
MW16	10.0	PORMA

COMMENTS/MAINTENANCE ISSUES

Cleared. Steventube

Yotrainer

MN 08

10

16

Flot of Hand in lines

Flushal well has, twice.



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS

Hare 15 San Juan County, New Mexico Hilcorp Energy Company

Photograph 1

Runtime meter taken on September 30, 2024 at 5:05 PM Hours = 1,013.6



Photograph 2

Runtime meter taken on December 30, 2024 at 11:00 PM Hours = 3,049.5



PROJECT PHOTOGRAPHS

Hare 15 San Juan County, New Mexico Hilcorp Energy Company

Photograph 3

Totalizer taken on September 30, 2024 at 5:05 PM Gallons = 22,453.54



Photograph 4

Runtime meter taken on December 30, 2024 at 11:00 PM Gallons = 38,387.70





APPENDIX C

DPE Laboratory Analytical Reports

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

Generated 10/10/2024 5:25:00 PM

JOB DESCRIPTION

Hare 15

JOB NUMBER

885-12298-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

Generated 10/10/2024 5:25:00 PM

Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975

Page 2 of 23 10/10/2024

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3

4

6

10

11

12

Client: Hilcorp Energy
Laboratory Job ID: 885-12298-1
Project/Site: Hare 15

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Chain of Custody	22
Receipt Checklists	23

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Definitions/Glossary

Client: Hilcorp Energy

Job ID: 885-12298-1

Project/Site: Hare 15

Glossary

MQL NC

ND

NEG

POS

PQL

QC RER

RL

RPD TEF

TEQ

TNTC

PRES

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Case Narrative

Client: Hilcorp Energy Job ID: 885-12298-1 Project: Hare 15

Job ID: 885-12298-1 **Eurofins Albuquerque**

> Job Narrative 885-12298-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 9/21/2024 7:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Gasoline Range Organics

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

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

Client Sample Results

Client: Hilcorp Energy Job ID: 885-12298-1

Project/Site: Hare 15

Client Sample ID: Influent 09192024

Date Collected: 09/19/24 13:45 Date Received: 09/21/24 07:55

Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-12298-1

Matrix: Air

Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics [C6 - C10]	3700	250	ug/L			10/02/24 15:32	50		

Surrogate	%Recovery Qu	ualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		52 - 172		10/02/24 15:32	50

50

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) Result Qualifier Dil Fac Analyte Unit Prepared Analyzed RL 1,1,1,2-Tetrachloroethane ND 50 ug/L 10/02/24 15:33 10/02/24 15:33

1,1,1-Trichloroethane	ND	50	ug/L	10/02/24 15:33	50
1,1,2,2-Tetrachloroethane	ND	100	ug/L	10/02/24 15:33	50
1,1,2-Trichloroethane	ND	50	ug/L	10/02/24 15:33	50
1,1-Dichloroethane	ND	50	ug/L	10/02/24 15:33	50
1,1-Dichloroethene	ND	50	ug/L	10/02/24 15:33	50
1,1-Dichloropropene	ND	50	ug/L	10/02/24 15:33	50
1,2,3-Trichlorobenzene	ND	50	ug/L	10/02/24 15:33	50
1,2,3-Trichloropropane	ND	100	ug/L	10/02/24 15:33	50
1,2,4-Trichlorobenzene	ND	50	ug/L	10/02/24 15:33	50
1,2,4-Trimethylbenzene	90	50	ug/L	10/02/24 15:33	50
1,2-Dibromo-3-Chloropropane	ND	100	ug/L	10/02/24 15:33	50
1,2-Dibromoethane (EDB)	ND	50	ug/L	10/02/24 15:33	50
1,2-Dichlorobenzene	ND	50	ug/L	10/02/24 15:33	50
1,2-Dichloroethane (EDC)	ND	50	ug/L	10/02/24 15:33	50
1,2-Dichloropropane	ND	50	ug/L	10/02/24 15:33	50
1,3,5-Trimethylbenzene	87	50	ug/L	10/02/24 15:33	50
1,3-Dichlorobenzene	ND	50	ug/L	10/02/24 15:33	50
1,3-Dichloropropane	ND	50	ug/L	10/02/24 15:33	50
1,4-Dichlorobenzene	ND	50	ug/L	10/02/24 15:33	50
1-Methylnaphthalene	ND	200	ug/L	10/02/24 15:33	50
2,2-Dichloropropane	ND	100	ug/L	10/02/24 15:33	50
2-Butanone	ND	500	ug/L	10/02/24 15:33	50
2-Chlorotoluene	ND	50	ug/L	10/02/24 15:33	50
2-Hexanone	ND	500	ug/L	10/02/24 15:33	50
2-Methylnaphthalene	ND	200	ug/L	10/02/24 15:33	50
4-Chlorotoluene	ND	50	ug/L	10/02/24 15:33	50
4-Isopropyltoluene	ND	50	ug/L	10/02/24 15:33	50
4-Methyl-2-pentanone	ND	500	ug/L	10/02/24 15:33	50
Acetone	ND	500	ug/L	10/02/24 15:33	50
Benzene	69	50	ug/L	10/02/24 15:33	50
Bromobenzene	ND	50	ug/L	10/02/24 15:33	50
Bromodichloromethane	ND	50	ug/L	10/02/24 15:33	50
Dibromochloromethane	ND	50	ug/L	10/02/24 15:33	50
Bromoform	ND	50	ug/L	10/02/24 15:33	50
Bromomethane	ND	150	ug/L	10/02/24 15:33	50
Carbon disulfide	ND	500	ug/L	10/02/24 15:33	50
Carbon tetrachloride	ND	50	ug/L	10/02/24 15:33	50
Chlorobenzene	ND	50	ug/L	10/02/24 15:33	50
Chloroethane	ND	100	ug/L	10/02/24 15:33	50
Chloroform	ND	50	ug/L	10/02/24 15:33	50

Client Sample Results

Client: Hilcorp Energy Job ID: 885-12298-1

Project/Site: Hare 15

Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Influent 09192024

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

117

99

89

Date Collected: 09/19/24 13:45 Date Received: 09/21/24 07:55

Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-12298-1

Matrix: Air

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		150	ug/L			10/02/24 15:33	50
cis-1,2-Dichloroethene	ND		50	ug/L			10/02/24 15:33	50
cis-1,3-Dichloropropene	ND		50	ug/L			10/02/24 15:33	50
Dibromomethane	ND		50	ug/L			10/02/24 15:33	50
Dichlorodifluoromethane	ND		50	ug/L			10/02/24 15:33	50
Ethylbenzene	ND		50	ug/L			10/02/24 15:33	50
Hexachlorobutadiene	ND		50	ug/L			10/02/24 15:33	50
Isopropylbenzene	ND		50	ug/L			10/02/24 15:33	50
Methyl-tert-butyl Ether (MTBE)	ND		50	ug/L			10/02/24 15:33	50
Methylene Chloride	ND		150	ug/L			10/02/24 15:33	50
n-Butylbenzene	ND		150	ug/L			10/02/24 15:33	50
N-Propylbenzene	ND		50	ug/L			10/02/24 15:33	50
Naphthalene	ND		100	ug/L			10/02/24 15:33	50
sec-Butylbenzene	ND		50	ug/L			10/02/24 15:33	50
Styrene	ND		50	ug/L			10/02/24 15:33	50
tert-Butylbenzene	ND		50	ug/L			10/02/24 15:33	50
Tetrachloroethene (PCE)	ND		50	ug/L			10/02/24 15:33	50
Toluene	360		50	ug/L			10/02/24 15:33	50
trans-1,2-Dichloroethene	ND		50	ug/L			10/02/24 15:33	50
trans-1,3-Dichloropropene	ND		50	ug/L			10/02/24 15:33	50
Trichloroethene (TCE)	ND		50	ug/L			10/02/24 15:33	50
Trichlorofluoromethane	ND		50	ug/L			10/02/24 15:33	50
Vinyl chloride	ND		50	ug/L			10/02/24 15:33	50
Xylenes, Total	590		75	ug/L			10/02/24 15:33	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		70 - 130		-		10/02/24 15:33	50

70 - 130

70 - 130

70 - 130

10/02/24 15:33

10/02/24 15:33

10/02/24 15:33

50

50

QC Sample Results

Client: Hilcorp Energy Job ID: 885-12298-1

Project/Site: Hare 15

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-13549/4 Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA

Analysis Batch: 13549

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 ug/L 10/02/24 11:28

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 52 - 172 4-Bromofluorobenzene (Surr) 81 10/02/24 11:28

Lab Sample ID: LCS 885-13549/3 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Air

Analysis Batch: 13549

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 4250 4100 ug/L 97 70 - 130 Gasoline Range Organics [C6 -

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 52 - 172 91

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-13499/1005 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air

Analysis Batch: 13499

	MB I	MB						
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			10/02/24 13:30	1
1,1,1-Trichloroethane	ND		1.0	ug/L			10/02/24 13:30	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			10/02/24 13:30	1
1,1,2-Trichloroethane	ND		1.0	ug/L			10/02/24 13:30	1
1,1-Dichloroethane	ND		1.0	ug/L			10/02/24 13:30	1
1,1-Dichloroethene	ND		1.0	ug/L			10/02/24 13:30	1
1,1-Dichloropropene	ND		1.0	ug/L			10/02/24 13:30	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			10/02/24 13:30	1
1,2,3-Trichloropropane	ND		2.0	ug/L			10/02/24 13:30	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			10/02/24 13:30	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			10/02/24 13:30	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			10/02/24 13:30	1
1,2-Dichlorobenzene	ND		1.0	ug/L			10/02/24 13:30	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			10/02/24 13:30	1
1,2-Dichloropropane	ND		1.0	ug/L			10/02/24 13:30	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
1,3-Dichlorobenzene	ND		1.0	ug/L			10/02/24 13:30	1
1,3-Dichloropropane	ND		1.0	ug/L			10/02/24 13:30	1
1,4-Dichlorobenzene	ND		1.0	ug/L			10/02/24 13:30	1
1-Methylnaphthalene	ND		4.0	ug/L			10/02/24 13:30	1
2,2-Dichloropropane	ND		2.0	ug/L			10/02/24 13:30	1
2-Butanone	ND		10	ug/L			10/02/24 13:30	1
2-Chlorotoluene	ND		1.0	ug/L			10/02/24 13:30	1
2-Hexanone	ND		10	ug/L			10/02/24 13:30	1

Client: Hilcorp Energy Job ID: 885-12298-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

MB MB

Lab Sample ID: MB 885-13499/1005

Matrix: Air

Analysis Batch: 13499

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		4.0	ug/L			10/02/24 13:30	1
4-Chlorotoluene	ND		1.0	ug/L			10/02/24 13:30	1
4-Isopropyltoluene	ND		1.0	ug/L			10/02/24 13:30	1
4-Methyl-2-pentanone	ND		10	ug/L			10/02/24 13:30	1
Acetone	ND		10	ug/L			10/02/24 13:30	1
Benzene	ND		1.0	ug/L			10/02/24 13:30	1
Bromobenzene	ND		1.0	ug/L			10/02/24 13:30	1
Bromodichloromethane	ND		1.0	ug/L			10/02/24 13:30	1
Dibromochloromethane	ND		1.0	ug/L			10/02/24 13:30	1
Bromoform	ND		1.0	ug/L			10/02/24 13:30	1
Bromomethane	ND		3.0	ug/L			10/02/24 13:30	1
Carbon disulfide	ND		10	ug/L			10/02/24 13:30	1
Carbon tetrachloride	ND		1.0	ug/L			10/02/24 13:30	1
Chlorobenzene	ND		1.0	ug/L			10/02/24 13:30	1
Chloroethane	ND		2.0	ug/L			10/02/24 13:30	1
Chloroform	ND		1.0	ug/L			10/02/24 13:30	1
Chloromethane	ND		3.0	ug/L			10/02/24 13:30	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			10/02/24 13:30	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			10/02/24 13:30	1
Dibromomethane	ND		1.0	ug/L			10/02/24 13:30	1
Dichlorodifluoromethane	ND		1.0	ug/L			10/02/24 13:30	1
Ethylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Hexachlorobutadiene	ND		1.0	ug/L			10/02/24 13:30	1
Isopropylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			10/02/24 13:30	1
Methylene Chloride	ND		3.0	ug/L			10/02/24 13:30	1
n-Butylbenzene	ND		3.0	ug/L			10/02/24 13:30	1
N-Propylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Naphthalene	ND		2.0	ug/L			10/02/24 13:30	1
sec-Butylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Styrene	ND		1.0	ug/L			10/02/24 13:30	1
tert-Butylbenzene	ND		1.0	ug/L			10/02/24 13:30	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			10/02/24 13:30	1
Toluene	ND		1.0	ug/L			10/02/24 13:30	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			10/02/24 13:30	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			10/02/24 13:30	
Trichloroethene (TCE)	ND		1.0	ug/L			10/02/24 13:30	1
Trichlorofluoromethane	ND		1.0	ug/L			10/02/24 13:30	1
Vinyl chloride	ND		1.0	ug/L			10/02/24 13:30	· · · · · · · · · · · · · · · · · · ·
Xylenes, Total	ND		1.5	ug/L			10/02/24 13:30	1
	МВ	МВ						
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fac

Eurofins Albuquerque

10/02/24 13:30

10/02/24 13:30

10/02/24 13:30

10/02/24 13:30

70 - 130

70 - 130

70 - 130

70 - 130

95

97

93

101

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Dil Fac

QC Sample Results

Client: Hilcorp Energy Job ID: 885-12298-1

RL

1.0

Unit

ug/L

D

Prepared

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

MB MB

ND

Result Qualifier

Lab Sample ID: MB 885-13499/5

Matrix: Air

1,1,1,2-Tetrachloroethane

Analyte

Chlorobenzene

Chloromethane

Dibromomethane

Ethylbenzene

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dichlorodifluoromethane

Hexachlorobutadiene

Released to Imaging: 1/16/2025 2:16:43 PM

Chloroethane

Chloroform

Analysis Batch: 13499

Client Sample ID: Method Blank

Analyzed

10/02/24 13:30

Prep Type: Total/NA

1,1,1-Trichloroethane	ND	1.0	ug/L	10/02/24 13:30	1
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	10/02/24 13:30	1
1,1,2-Trichloroethane	ND	1.0	ug/L	10/02/24 13:30	1
1,1-Dichloroethane	ND	1.0	ug/L	10/02/24 13:30	1
1,1-Dichloroethene	ND	1.0	ug/L	10/02/24 13:30	1
1,1-Dichloropropene	ND	1.0	ug/L	10/02/24 13:30	1
1,2,3-Trichlorobenzene	ND	1.0	ug/L	10/02/24 13:30	1
1,2,3-Trichloropropane	ND	2.0	ug/L	10/02/24 13:30	1
1,2,4-Trichlorobenzene	ND	1.0	ug/L	10/02/24 13:30	1
1,2,4-Trimethylbenzene	ND	1.0	ug/L	10/02/24 13:30	1
1,2-Dibromo-3-Chloropropane	ND	2.0	ug/L	10/02/24 13:30	1
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	10/02/24 13:30	1
1,2-Dichlorobenzene	ND	1.0	ug/L	10/02/24 13:30	1
1,2-Dichloroethane (EDC)	ND	1.0	ug/L	10/02/24 13:30	1
1,2-Dichloropropane	ND	1.0	ug/L	10/02/24 13:30	1
1,3,5-Trimethylbenzene	ND	1.0	ug/L	10/02/24 13:30	1
1,3-Dichlorobenzene	ND	1.0	ug/L	10/02/24 13:30	1
1,3-Dichloropropane	ND	1.0	ug/L	10/02/24 13:30	1
1,4-Dichlorobenzene	ND	1.0	ug/L	10/02/24 13:30	1
1-Methylnaphthalene	ND	4.0	ug/L	10/02/24 13:30	1
2,2-Dichloropropane	ND	2.0	ug/L	10/02/24 13:30	1
2-Butanone	ND	10	ug/L	10/02/24 13:30	1
2-Chlorotoluene	ND	1.0	ug/L	10/02/24 13:30	1
2-Hexanone	ND	10	ug/L	10/02/24 13:30	1
2-Methylnaphthalene	ND	4.0	ug/L	10/02/24 13:30	1
4-Chlorotoluene	ND	1.0	ug/L	10/02/24 13:30	1
4-Isopropyltoluene	ND	1.0	ug/L	10/02/24 13:30	1
4-Methyl-2-pentanone	ND	10	ug/L	10/02/24 13:30	1
Acetone	ND	10	ug/L	10/02/24 13:30	1
Benzene	ND	1.0	ug/L	10/02/24 13:30	1
Bromobenzene	ND	1.0	ug/L	10/02/24 13:30	1
Bromodichloromethane	ND	1.0	ug/L	10/02/24 13:30	1
Dibromochloromethane	ND	1.0	ug/L	10/02/24 13:30	1
Bromoform	ND	1.0	ug/L	10/02/24 13:30	1
Bromomethane	ND	3.0	ug/L	10/02/24 13:30	1
Carbon disulfide	ND	10	ug/L	10/02/24 13:30	1
Carbon tetrachloride	ND	1.0	ug/L	10/02/24 13:30	1
1					

Eurofins Albuquerque

10/02/24 13:30

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10/02/24 13:30

10/02/24 13:30

10/02/24 13:30

10/02/24 13:30

10/02/24 13:30

1.0

2.0

1.0

3.0

1.0

1.0

1.0

1.0

1.0

1.0

ug/L

6

QC Sample Results

Client: Hilcorp Energy Job ID: 885-12298-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-13499/5 Matrix: Air

Analysis Batch: 13499

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed ND 1.0 10/02/24 13:30 Isopropylbenzene ug/L Methyl-tert-butyl Ether (MTBE) ND 1.0 ug/L 10/02/24 13:30 Methylene Chloride ND 10/02/24 13:30 3.0 ug/L n-Butylbenzene ND 3.0 ug/L 10/02/24 13:30 ND N-Propylbenzene 1.0 ug/L 10/02/24 13:30 Naphthalene ND 2.0 ug/L 10/02/24 13:30 sec-Butylbenzene ND 1.0 ug/L 10/02/24 13:30 Styrene ND 1.0 ug/L 10/02/24 13:30 tert-Butylbenzene ND 1.0 ug/L 10/02/24 13:30 Tetrachloroethene (PCE) ND 1.0 ug/L 10/02/24 13:30 ND Toluene 1.0 ug/L 10/02/24 13:30 ND ug/L 10/02/24 13:30 trans-1,2-Dichloroethene 1.0 ND 10/02/24 13:30 trans-1,3-Dichloropropene 1.0 ug/L Trichloroethene (TCE) ND 1.0 ug/L 10/02/24 13:30 Trichlorofluoromethane ND 1.0 ug/L 10/02/24 13:30 ND Vinyl chloride 1.0 ug/L 10/02/24 13:30

MB MB

ND

Surrogate	%Recovery Qualifier	Limits	1	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	70 - 130			10/02/24 13:30	1
Toluene-d8 (Surr)	97	70 - 130			10/02/24 13:30	1
4-Bromofluorobenzene (Surr)	93	70 - 130			10/02/24 13:30	1
Dibromofluoromethane (Surr)	101	70 - 130			10/02/24 13:30	1

1.5

ug/L

Lab Sample ID: LCS 885-13499/4

Matrix: Air

Xylenes, Total

Analysis Batch: 13499

Client Sample ID: Lab Control Sample Prep Type: Total/NA

10/02/24 13:30

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.1	21.2		ug/L		105	70 - 130	
Benzene	20.1	23.0		ug/L		114	70 - 130	
Chlorobenzene	20.1	20.5		ug/L		102	70 - 130	
Toluene	20.2	20.9		ug/L		104	70 - 130	
Trichloroethene (TCE)	20.2	21.1		ug/L		105	70 - 130	

LUS	LUS
overy	Qualifie

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

QC Association Summary

Client: Hilcorp Energy

Project/Site: Hare 15

Job ID: 885-12298-1

GC/MS VOA

Analysis Batch: 13499

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	885-12298-1	Influent 09192024	Total/NA	Air	8260B	
	MB 885-13499/1005	Method Blank	Total/NA	Air	8260B	
	MB 885-13499/5	Method Blank	Total/NA	Air	8260B	
ı	LCS 885-13499/4	Lab Control Sample	Total/NA	Air	8260B	

Analysis Batch: 13549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12298-1	Influent 09192024	Total/NA	Air	8015M/D	
MB 885-13549/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-13549/3	Lab Control Sample	Total/NA	Air	8015M/D	

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Released to Imaging: 1/16/2025 2:16:43 PM

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Lab Chronicle

Client: Hilcorp Energy Job ID: 885-12298-1

Project/Site: Hare 15

Client Sample ID: Influent 09192024 Lab Sample ID: 885-12298-1

Date Collected: 09/19/24 13:45

Date Received: 09/21/24 07:55

Matrix: Air

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		50	13549	CM	EET ALB	10/02/24 15:32
Total/NA	Analysis	8260B		50	13499	CM	EET ALB	10/02/24 15:33

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Client: Hilcorp Energy Job ID: 885-12298-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque

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

Authority	Progr	am	Identification Number	Expiration Date	
New Mexico	State		NM9425, NM0901	02-26-25	
0 ,	are included in this report, but	ut the laboratory is not certi	fied by the governing authority. This li	st may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
004EN4/D		A:		100 0401	

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
3260B		Air	1,1-Dichloropropene
3260B		Air	1,2,3-Trichlorobenzene
3260B		Air	1,2,3-Trichloropropane
3260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
3260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane

Eurofins Albuquerque

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Client: Hilcorp Energy

Job ID: 885-12298-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

hority	Progra	am	Identification Number	Expiration Date
	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This li	st may include analyte
Analysis Method	Prep Method	Matrix	Analyte	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air	Ethylbenzene	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (M	ITBE)
8260B		Air	Naphthalene	
8260B		Air	n-Butylbenzene	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)	
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethene	
8260B		Air	trans-1,3-Dichloropropen	е
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	
on	NELAI	0	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene

Eurofins Albuquerque

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Client: Hilcorp Energy Job ID: 885-12298-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progra	am	Identification Number Expiration	Date
	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This list may include a	nalyte
Analysis Method	Prep Method	Matrix	Analyte	
8260B		Air	1-Methylnaphthalene	
8260B		Air	2,2-Dichloropropane	
8260B		Air	2-Butanone	
8260B		Air	2-Chlorotoluene	
8260B		Air	2-Hexanone	
8260B		Air	2-Methylnaphthalene	
8260B		Air	4-Chlorotoluene	
8260B		Air	4-Isopropyltoluene	
8260B		Air	4-Methyl-2-pentanone	
8260B		Air	Acetone	
8260B		Air	Benzene	
8260B		Air	Bromobenzene	
8260B		Air	Bromodichloromethane	
8260B		Air	Bromoform	
8260B		Air	Bromomethane	
8260B		Air	Carbon disulfide	
8260B		Air	Carbon tetrachloride	
8260B		Air	Chlorobenzene	
8260B		Air	Chloroethane	
8260B		Air	Chloroform	
8260B		Air	Chloromethane	
8260B		Air	cis-1,2-Dichloroethene	
8260B		Air	cis-1,3-Dichloropropene	
8260B		Air	Dibromochloromethane	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air		
8260B		Air	Ethylbenzene Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B 8260B		Air	Methyl tert butyl Ether (MTRE)	
		Air	Methyl-tert-butyl Ether (MTBE)	
8260B		Air	Naphthalene n-Butylbenzene	
8260B		Air	•	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)	
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethene	
8260B		Air	trans-1,3-Dichloropropene	
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	

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Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 . Helena, MT 406.442.0711

ANALYTICAL SUMMARY REPORT

September 27, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B24092167 Quote ID: B15626

Project Name: Hare 15, 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 9/24/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matri x	Test
B24092167-001	Influent 09192024 (885- 12298-1)	09/19/24 13:45 09/24/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

Billings, MT 406.252.6325 . Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Report Date: 09/27/24

DateReceived: 09/24/24

Matrix: Air

Collection Date: 09/19/24 13:45

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: Hare 15, 88501698 Lab ID: B24092167-001

Client Sample ID: Influent 09192024 (885-12298-1)

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSI	S REPORT						
Oxygen	21.78	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Nitrogen	77.86	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Carbon Dioxide	0.28	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Hexanes plus	0.08	Mol %		0.01		GPA 2261-95	09/25/24 09:51 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 09:51 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 09:51 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 09:51 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 09:51 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	09/25/24 09:51 / jrj
Hexanes plus	0.034			0.001		GPA 2261-95	09/25/24 09:51 / jrj
GPM Total	0.034			0.001		GPA 2261-95	09/25/24 09:51 / jrj
GPM Pentanes plus	0.034	gpm		0.001		GPA 2261-95	09/25/24 09:51 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	4			1		GPA 2261-95	09/25/24 09:51 / jrj
Net BTU per cu ft @ std cond. (LHV)	4			1		GPA 2261-95	09/25/24 09:51 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	09/25/24 09:51 / jrj
Pseudo-critical Temperature, deg R	240			1		GPA 2261-95	09/25/24 09:51 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	09/25/24 09:51 / jrj
Air, %	99.54			0.01		GPA 2261-95	09/25/24 09:51 / jrj
- The analysis was not corrected for air.							

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis

RL - Analyte Reporting Limit Report **Definitions:** QCL - Quality Control Limit

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

09/25/24 09:51 / jrj

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental Work Order: B24092167 Report Date: 09/27/24

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R429509
Lab ID:	B24092171-001ADUP	12 Saı	mple Duplic	ate			Run: GCNG	GA-B_240925A		09/25	/24 01:07
Oxygen			18.9	Mol %	0.01				0.5	20	
Nitrogen			78.5	Mol %	0.01				0.1	20	
Carbon D	ioxide		2.52	Mol %	0.01				1.2	20	
Hydrogen	Sulfide		<0.01	Mol %	0.01					20	
Methane			<0.01	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutane)		<0.01	Mol %	0.01					20	
n-Butane			<0.01	Mol %	0.01					20	
Isopentar	ne		<0.01	Mol %	0.01					20	
n-Pentane	е		<0.01	Mol %	0.01					20	
Hexanes	plus		0.11	Mol %	0.01				8.7	20	
Lab ID:	LCS092524	11 Lab	ooratory Co	ntrol Sample	•		Run: GCNG	SA-B_240925A		09/25	/24 02:45
Oxygen			0.65	Mol %	0.01	130	70	130			
Nitrogen			6.12	Mol %	0.01	102	70	130			
Carbon D	ioxide		0.98	Mol %	0.01	99	70	130			
Methane			75.0	Mol %	0.01	100	70	130			
Ethane			5.99	Mol %	0.01	100	70	130			
Propane			5.02	Mol %	0.01	102	70	130			
Isobutane	•		1.40	Mol %	0.01	70	70	130			
n-Butane			1.99	Mol %	0.01	99	70	130			
Isopentar	ne		1.01	Mol %	0.01	101	70	130			
n-Pentane	е		1.00	Mol %	0.01	100	70	130			
Hexanes	plus		0.79	Mol %	0.01	99	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Work Order Receipt Checklist

Hall Environmental

B24092167

Login completed by: Danielle N. Harris	Date Received: 9/24/2024					
Reviewed by: mstephens	Received by: SAY					
Reviewed Date: 9/25/2024	Carrier name: FedEx NDA					
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present			
Custody seals intact on all shipping container(s)/cooler(s)?	Yes	No 🗌	Not Present ✓			
Custody seals intact on all sample bottles?	Yes	No 🗌	Not Present ✓			
Chain of custody present?	Yes ✓	No 🗌				
Chain of custody signed when relinquished and received?	Yes ✓	No 🗌				
Chain of custody agrees with sample labels?	Yes ✓	No 🗌				
Samples in proper container/bottle?	Yes ✓	No 🗌				
Sample containers intact?	Yes ✓	No 🗌				
Sufficient sample volume for indicated test?	Yes ✓	No 🗌				
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ✓	No 🗌				
Temp Blank received in all shipping container(s)/cooler(s)?	Yes	No 🔽	Not Applicable			
Container/Temp Blank temperature:	21.5°C No Ice					
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes	No 🗌	No VOA vials submitted			
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable ✓			

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

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2

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Control Cont	Eurofins Albuquerque 4901 Hawkins NE Albuquerque, NM 87109 Phone: 505-345-3975 Fax: 505-345-4107	Chain o	Chain of Custody Record	Record		💸 eurofins	Environment Testin
Comparisonment Comp	Client Information (Sub Contract Lab)	Sampler,	Lab	PM: cia, Michelle	Carrier Tracking No(s):	COC No: 885-2088.1	
17.00 Colors 17.0	Client Contact: Shipping/Receiving	Phone:	E-Ma mici	iil: nelle.garcia@et.eurofinsus.com		Page: Page 1 of 1	
Analysis Reductive Control	Company: Energy Laboratories, Inc.			Accreditations Required (See note): NELAP - Oregon; State - New Me	Kico	Job #: 885-12298-1	
Sample Description Color	Address: 1120 South 27th Street,	Due Date Requested: 9/30/2024		Analysis	Requested	Preservation Cod	les:
Company Comp	City: Billings Barie, Zip: MT: 59101	TAT Requested (days):				I TEN	
Sumple Identification - Clerk to (Lab ID) Sample Date Modelia Sample Modelia	Phone: 406-252-6325(Tel)	PO#.		(0			
The Fig. 5 ample Identification - Client ID (Lab ID) Sample Date Time General Processor of the Control of the C	Email:	WO#.		(0)			
Single Identification - Client D (Lab ID) Sample Date Sample (Second) Time G-graph Time C-graph Concerns I and sold of the Concer	Project Name: Hare 15	Project #: 88501698		es or l		renish	
Sample Identification - Client D (Lab D) Sample Identification - Client D (Lab D) The Control of 192024 (855-12266-1) Sample Identification - Client D (Lab D) The Control of 192024 (855-12266-1) The Control of 192024 (855-12266-1) Sample Identification - Client D (Lab D) The Control of 192024 (855-12266-1) Sample Identification - Client D (Lab D) The Control of 192024 (855-12266-1) Sample Identification - Client D (Lab D) Sample Identi	Site.	SSOW#:		A) as			
Influent des record (des 5-1288-1) Service lecoration excretisions are sident to basels. Early Christment Team South Central LLC desease the concept of native between the service and comparable records the service and compara	Samula Identification - Cilent ID // ab ID)	Sample		S benetilit blei MSM mohe			
Influent 09 (92024 (985-12289-1) 99 (9224 Mountain G Auri X X N N N N N N N N N N N N N N N N N		X	- (0	X			
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Possible Hazard Identification Unconfirmed Special Instructions/QC Requirements: Empty Kit Relinquished by: Image: Special Instructions/QC Requirements: Image: S	Vote: Since laboratory accreditations are subject to change. Eurofins Eraboratory does not currently maintain accreditation in the State of Ongia accreditation status should be brought to Eurofins Environment Testing	nvironment Testing South Central, LLC places the in listed above for analysis/tests/matrix being and South Central, LLC attention immediately. If all	e ownership of method, a hyzed, the samples must b requested accreditations	nalyte & accreditation compliance upon our se shipped back to the Eurofins Environmen re current to date, return the signed Chain	subcontract laboratories. This sample is the sting South Central, LLC laboratory of Custody attesting to said compliance	shipment is forwarded under or other instructions will be to Eurofins Environment Tee	chain-of-custody. If the provided. Any changes sting South Central, LLC
III. IV, Other (specify) Primary Deliverable Rank: 2 Special Instructions/QC Requirements: Archive For_Archive F	Possible Hazard Identification			Sample Disposal (A fee may	be assessed if samples are re	tained longer than 1 i	month)
Modified Date: Time: Method of Shipment Additional of Shipment Additional of Shipment Date/Time: Date/Time: Date/Time: Custody Seal No:: Date/Time: Company Received by: Date/Time: Date/Time: Custody Seal No:: Cooler/Temperature of Canal Other Remarks: Captor Temperature of Canal Other Remarks: Captor Temperature of Canal Other Remarks: Captor Temperature of Canal Other Remarks:	Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Special Instructions/QC Requir	Disposal By Lab	Archive For	Months
House Male Intact: Custody Seal No.: Date/Time: Als Intact: Custody Seal No.: Date/Time: Company Received by: Date/Time: Date/Time: O455 Confort Temperature of Confort Received by: Date/Time: O455	Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:		
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Custody Seal No.:		Date/Time;	Company	Received by:	Date/Time:		Company Silling
				Cooler Temperature (4) "C and Ot			

Received by OCD: 1/10/2025			Page 86 of 252
HALL ENVIRONM ANALYSIS LABOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 871(Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	3TEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 5081 Pesticides/8082 PCB's 5081 Pesticides/8082 PCB's 5091 P		Time: Relinquished by: 15 5 Wran la m (Ma) Received by: Wa: Date Time C Date Dat
Turn-Around Time: [0 Day TM(Standard □ Rush Project Name: Hare 15 Project #:	Project Manager: Sampler: AL On Ice: B-Yes DNo # of Coolers: 1 Cooler Temp(including cr): C-3 **Cot's Cooler Container Preservative HEAL No. Type and # Type		Received by: Via: Date Time Received by: Via: Date Time Contracted to other accredited laboratories. This serves as notice of this
Chain-of-Custody Record Client: Hillegre Atta: Mtch Kulbugh Mailing Address:	Fax#: Mki Hough & hylcorp ccm sckage: ard	24 1845 A.r. Influent 09192024	Time: Relinquished by: Date: Time: Relinquished by: Appl (515 Myan (A.M.CMan) Date: Time: Relinquished by: Appl (715 Myan (A.M.CMan) Appl (1515 Myan (A.M.CM

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-12298-1

Login Number: 12298 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

Generated 10/17/2024 2:26:30 PM

JOB DESCRIPTION

Hare 15

JOB NUMBER

885-13072-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

Page 2 of 24

Generated 10/17/2024 2:26:30 PM

Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975 Client: Hilcorp Energy
Laboratory Job ID: 885-13072-1
Project/Site: Hare 15

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QC Association Summary	12
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•	24

Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-13072-1 Project/Site: Hare 15

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
₩	Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Hilcorp Energy Job ID: 885-13072-1 Project: Hare 15

Job ID: 885-13072-1 **Eurofins Albuquerque**

Job Narrative 885-13072-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 10/3/2024 6:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.0°C.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Gasoline Range Organics

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

Method 8260B: The continuing calibration verification (CCV) associated with batch 885-14193 recovered outside acceptance criteria, low biased, for Bromomethane and Iodomethane. Since the associated samples were non-detect and/or not reported for the analytes, the data are reported.

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

Client Sample Results

Client: Hilcorp Energy Job ID: 885-13072-1

Project/Site: Hare 15

Client Sample ID: Influent 10-1-24

Date Collected: 10/01/24 17:40

Date Received: 10/03/24 06:20 Sample Container: Tedlar Bag 1L

Released to Imaging: 1/16/2025 2:16:43 PM

Lab Sample ID: 885-13072-1

. Matrix: Air

 Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Gasoline Range Organics [C6 - C10]
 64
 5.0
 ug/L
 10/13/24 18:05
 1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND —	5.0	ug/L			10/13/24 18:05	50
1,1,1-Trichloroethane	ND	5.0	ug/L			10/13/24 18:05	50
1,1,2,2-Tetrachloroethane	ND	10	ug/L			10/13/24 18:05	50
1,1,2-Trichloroethane	ND	5.0	ug/L			10/13/24 18:05	50
1,1-Dichloroethane	ND	5.0	ug/L			10/13/24 18:05	50
1,1-Dichloroethene	ND	5.0	ug/L			10/13/24 18:05	50
1,1-Dichloropropene	ND	5.0	ug/L			10/13/24 18:05	50
1,2,3-Trichlorobenzene	ND	5.0	ug/L			10/13/24 18:05	50
1,2,3-Trichloropropane	ND	10	ug/L			10/13/24 18:05	50
1,2,4-Trichlorobenzene	ND	5.0	ug/L			10/13/24 18:05	50
1,2,4-Trimethylbenzene	ND	5.0	ug/L			10/13/24 18:05	50
1,2-Dibromo-3-Chloropropane	ND	10	ug/L			10/13/24 18:05	50
1,2-Dibromoethane (EDB)	ND	5.0	ug/L			10/13/24 18:05	50
1,2-Dichlorobenzene	ND	5.0	ug/L			10/13/24 18:05	50
1,2-Dichloroethane (EDC)	ND	5.0	ug/L			10/13/24 18:05	50
1,2-Dichloropropane	ND	5.0	ug/L			10/13/24 18:05	50
1,3,5-Trimethylbenzene	ND	5.0	ug/L			10/13/24 18:05	50
1,3-Dichlorobenzene	ND	5.0	ug/L			10/13/24 18:05	50
1,3-Dichloropropane	ND	5.0	ug/L			10/13/24 18:05	50
1,4-Dichlorobenzene	ND	5.0	ug/L			10/13/24 18:05	50
1-Methylnaphthalene	ND	20	ug/L			10/13/24 18:05	50
2,2-Dichloropropane	ND	10	ug/L			10/13/24 18:05	50
2-Butanone	ND	50	ug/L			10/13/24 18:05	50
2-Chlorotoluene	ND	5.0	ug/L			10/13/24 18:05	50
2-Hexanone	ND	50	ug/L			10/13/24 18:05	50
2-Methylnaphthalene	ND	20	ug/L			10/13/24 18:05	50
4-Chlorotoluene	ND	5.0	ug/L			10/13/24 18:05	50
4-Isopropyltoluene	ND	5.0	ug/L			10/13/24 18:05	50
4-Methyl-2-pentanone	ND	50	ug/L			10/13/24 18:05	50
Acetone	ND	50	ug/L			10/13/24 18:05	50
Benzene	6.1	5.0	ug/L			10/13/24 18:05	50
Bromobenzene	ND	5.0	ug/L			10/13/24 18:05	50
Bromodichloromethane	ND	5.0	ug/L			10/13/24 18:05	50
Dibromochloromethane	ND	5.0	ug/L			10/13/24 18:05	50
Bromoform	ND	5.0	ug/L			10/13/24 18:05	50
Bromomethane	ND	15	ug/L			10/13/24 18:05	50
Carbon disulfide	ND	50	ug/L			10/13/24 18:05	50
Carbon tetrachloride	ND	5.0	ug/L			10/13/24 18:05	50
Chlorobenzene	ND	5.0	ug/L			10/13/24 18:05	50
Chloroethane	ND	10	ug/L			10/13/24 18:05	50
Chloroform	ND	5.0	ug/L			10/13/24 18:05	50

Eurofins Albuquerque

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Client Sample Results

Client: Hilcorp Energy Job ID: 885-13072-1

Project/Site: Hare 15

Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Influent 10-1-24

Date Collected: 10/01/24 17:40

Date Received: 10/03/24 06:20 Sample Container: Tedlar Bag 1L Lab Sample ID: 885-13072-1

Matrix: Air

rix: Air

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Method: SW846 8260B - Vol Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		15	ug/L		•	10/13/24 18:05	50
cis-1,2-Dichloroethene	ND		5.0	ug/L			10/13/24 18:05	50
cis-1,3-Dichloropropene	ND		5.0	ug/L			10/13/24 18:05	50
Dibromomethane	ND		5.0	ug/L			10/13/24 18:05	50
Dichlorodifluoromethane	ND		5.0	ug/L			10/13/24 18:05	50
Ethylbenzene	ND		5.0	ug/L			10/13/24 18:05	50
Hexachlorobutadiene	ND		5.0	ug/L			10/13/24 18:05	50
Isopropylbenzene	ND		5.0	ug/L			10/13/24 18:05	50
Methyl-tert-butyl Ether (MTBE)	ND		5.0	ug/L			10/13/24 18:05	50
Methylene Chloride	ND		15	ug/L			10/13/24 18:05	50
n-Butylbenzene	ND		15	ug/L			10/13/24 18:05	50
N-Propylbenzene	ND		5.0	ug/L			10/13/24 18:05	50
Naphthalene	ND		10	ug/L			10/13/24 18:05	50
sec-Butylbenzene	ND		5.0	ug/L			10/13/24 18:05	50
Styrene	ND		5.0	ug/L			10/13/24 18:05	50
tert-Butylbenzene	ND		5.0	ug/L			10/13/24 18:05	50
Tetrachloroethene (PCE)	ND		5.0	ug/L			10/13/24 18:05	50
Toluene	31		5.0	ug/L			10/13/24 18:05	50
trans-1,2-Dichloroethene	ND		5.0	ug/L			10/13/24 18:05	50
trans-1,3-Dichloropropene	ND		5.0	ug/L			10/13/24 18:05	50
Trichloroethene (TCE)	ND		5.0	ug/L			10/13/24 18:05	50
Trichlorofluoromethane	ND		5.0	ug/L			10/13/24 18:05	50
Vinyl chloride	ND		5.0	ug/L			10/13/24 18:05	50
Xylenes, Total	56		7.5	ug/L			10/13/24 18:05	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		•		10/13/24 18:05	50

70 - 130

70 - 130

70 - 130

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10/13/24 18:05

10/13/24 18:05

10/13/24 18:05

Client Sample ID: Method Blank

Prep Type: Total/NA

QC Sample Results

Client: Hilcorp Energy Job ID: 885-13072-1

Project/Site: Hare 15

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-14247/4

Matrix: Air

Analysis Batch: 14247

Prep Type: Total/NA

Result Qualifier RL Unit Analyzed Dil Fac Analyte D **Prepared** 5.0 10/13/24 16:52 Gasoline Range Organics [C6 - C10] ND ug/L

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 80 52 - 172 10/13/24 16:52

Lab Sample ID: LCS 885-14247/3 **Client Sample ID: Lab Control Sample**

Matrix: Air

Analysis Batch: 14247

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 4250 4850 ug/L 114 70 - 130

Gasoline Range Organics [C6 -C10]

LCS LCS

Limits Surrogate %Recovery Qualifier

4-Bromofluorobenzene (Surr) 90 52 - 172

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analysis Batch: 14193

Released to Imaging: 1/16/2025 2:16:43 PM

Lab Sample ID: MB 885-14193/1006 Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			10/13/24 16:52	1
1,1,1-Trichloroethane	ND		1.0	ug/L			10/13/24 16:52	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			10/13/24 16:52	1
1,1,2-Trichloroethane	ND		1.0	ug/L			10/13/24 16:52	1
1,1-Dichloroethane	ND		1.0	ug/L			10/13/24 16:52	1
1,1-Dichloroethene	ND		1.0	ug/L			10/13/24 16:52	1
1,1-Dichloropropene	ND		1.0	ug/L			10/13/24 16:52	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	1
1,2,3-Trichloropropane	ND		2.0	ug/L			10/13/24 16:52	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			10/13/24 16:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			10/13/24 16:52	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			10/13/24 16:52	1
1,2-Dichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			10/13/24 16:52	1
1,2-Dichloropropane	ND		1.0	ug/L			10/13/24 16:52	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			10/13/24 16:52	1
1,3-Dichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	1
1,3-Dichloropropane	ND		1.0	ug/L			10/13/24 16:52	1
1,4-Dichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	1
1-Methylnaphthalene	ND		4.0	ug/L			10/13/24 16:52	1
2,2-Dichloropropane	ND		2.0	ug/L			10/13/24 16:52	1
2-Butanone	ND		10	ug/L			10/13/24 16:52	1
2-Chlorotoluene	ND		1.0	ug/L			10/13/24 16:52	1
2-Hexanone	ND		10	ug/L			10/13/24 16:52	1

Client: Hilcorp Energy Job ID: 885-13072-1 Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

MB MB

Lab Sample ID: MB 885-14193/1006

Matrix: Air

Analysis Batch: 14193

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		4.0	ug/L	<u> </u>	10/13/24 16:52	1
4-Chlorotoluene	ND		1.0	ug/L		10/13/24 16:52	1
4-Isopropyltoluene	ND		1.0	ug/L		10/13/24 16:52	1
4-Methyl-2-pentanone	ND		10	ug/L		10/13/24 16:52	1
Acetone	ND		10	ug/L		10/13/24 16:52	1
Benzene	ND		1.0	ug/L		10/13/24 16:52	1
Bromobenzene	ND		1.0	ug/L		10/13/24 16:52	1
Bromodichloromethane	ND		1.0	ug/L		10/13/24 16:52	1
Dibromochloromethane	ND		1.0	ug/L		10/13/24 16:52	1
Bromoform	ND		1.0	ug/L		10/13/24 16:52	1
Bromomethane	ND		3.0	ug/L		10/13/24 16:52	1
Carbon disulfide	ND		10	ug/L		10/13/24 16:52	1
Carbon tetrachloride	ND		1.0	ug/L		10/13/24 16:52	1
Chlorobenzene	ND		1.0	ug/L		10/13/24 16:52	1
Chloroethane	ND		2.0	ug/L		10/13/24 16:52	1
Chloroform	ND		1.0	ug/L		10/13/24 16:52	1
Chloromethane	ND		3.0	ug/L		10/13/24 16:52	1
cis-1,2-Dichloroethene	ND		1.0	ug/L		10/13/24 16:52	1
cis-1,3-Dichloropropene	ND		1.0	ug/L		10/13/24 16:52	1
Dibromomethane	ND		1.0	ug/L		10/13/24 16:52	1
Dichlorodifluoromethane	ND		1.0	ug/L		10/13/24 16:52	1
Ethylbenzene	ND		1.0	ug/L		10/13/24 16:52	1
Hexachlorobutadiene	ND		1.0	ug/L		10/13/24 16:52	1
Isopropylbenzene	ND		1.0	ug/L		10/13/24 16:52	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L		10/13/24 16:52	1
Methylene Chloride	ND		3.0	ug/L		10/13/24 16:52	1
n-Butylbenzene	ND		3.0	ug/L		10/13/24 16:52	1
N-Propylbenzene	ND		1.0	ug/L		10/13/24 16:52	1
Naphthalene	ND		2.0	ug/L		10/13/24 16:52	1
sec-Butylbenzene	ND		1.0	ug/L		10/13/24 16:52	1
Styrene	ND		1.0	ug/L		10/13/24 16:52	1
tert-Butylbenzene	ND		1.0	ug/L		10/13/24 16:52	1
Tetrachloroethene (PCE)	ND		1.0	ug/L		10/13/24 16:52	1
Toluene	ND		1.0	ug/L		10/13/24 16:52	1
trans-1,2-Dichloroethene	ND		1.0	ug/L		10/13/24 16:52	1
trans-1,3-Dichloropropene	ND		1.0	ug/L		10/13/24 16:52	1
Trichloroethene (TCE)	ND		1.0	ug/L		10/13/24 16:52	1
Trichlorofluoromethane	ND		1.0	ug/L		10/13/24 16:52	1
Vinyl chloride	ND		1.0	ug/L		10/13/24 16:52	1
Xylenes, Total	ND		1.5	ug/L		10/13/24 16:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		0/13/24 16:52	1
Toluene-d8 (Surr)	105		70 - 130	10	0/13/24 16:52	1
4-Bromofluorobenzene (Surr)	90		70 - 130	10	0/13/24 16:52	1
Dibromofluoromethane (Surr)	109		70 - 130	10	0/13/24 16:52	1

Client: Hilcorp Energy Job ID: 885-13072-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-14193/6

Matrix: Air

Analysis Batch: 14193

Client Sample ID: Method Blank **Prep Type: Total/NA**

		MB			_			
Analyte		Qualifier	RL	Unit	<u>D</u> .	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			10/13/24 16:52	
1,1,1-Trichloroethane	ND		1.0	ug/L			10/13/24 16:52	
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			10/13/24 16:52	
1,1,2-Trichloroethane	ND		1.0	ug/L			10/13/24 16:52	
1,1-Dichloroethane	ND		1.0	ug/L			10/13/24 16:52	
1,1-Dichloroethene	ND		1.0	ug/L			10/13/24 16:52	
1,1-Dichloropropene	ND		1.0	ug/L			10/13/24 16:52	
1,2,3-Trichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	
1,2,3-Trichloropropane	ND		2.0	ug/L			10/13/24 16:52	
1,2,4-Trichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	
1,2,4-Trimethylbenzene	ND		1.0	ug/L			10/13/24 16:52	
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			10/13/24 16:52	
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			10/13/24 16:52	
1,2-Dichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			10/13/24 16:52	
1,2-Dichloropropane	ND		1.0	ug/L			10/13/24 16:52	
1,3,5-Trimethylbenzene	ND		1.0	ug/L			10/13/24 16:52	
1,3-Dichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	
1,3-Dichloropropane	ND		1.0	ug/L			10/13/24 16:52	
1,4-Dichlorobenzene	ND		1.0	ug/L			10/13/24 16:52	
1-Methylnaphthalene	ND		4.0	ug/L			10/13/24 16:52	
2,2-Dichloropropane	ND		2.0	ug/L			10/13/24 16:52	
2-Butanone	ND		10	ug/L			10/13/24 16:52	
2-Chlorotoluene	ND		1.0	ug/L			10/13/24 16:52	
2-Hexanone	ND		10	ug/L			10/13/24 16:52	
2-Methylnaphthalene	ND		4.0	ug/L			10/13/24 16:52	
4-Chlorotoluene	ND		1.0	ug/L			10/13/24 16:52	
4-Isopropyltoluene	ND		1.0	ug/L			10/13/24 16:52	
4-Methyl-2-pentanone	ND		10	ug/L			10/13/24 16:52	
Acetone	ND		10	ug/L			10/13/24 16:52	
Benzene	ND ND		1.0	ug/L			10/13/24 16:52	
Bromobenzene	ND ND		1.0	•			10/13/24 16:52	
				ug/L				
Bromodichloromethane	ND		1.0	ug/L			10/13/24 16:52	
Dibromochloromethane	ND		1.0	ug/L			10/13/24 16:52	
Bromoform	ND		1.0	ug/L			10/13/24 16:52	
Bromomethane	ND		3.0	ug/L			10/13/24 16:52	
Carbon disulfide	ND		10	ug/L			10/13/24 16:52	
Carbon tetrachloride	ND		1.0	ug/L			10/13/24 16:52	
Chlorobenzene	ND		1.0	ug/L			10/13/24 16:52	
Chloroethane	ND		2.0	ug/L			10/13/24 16:52	
Chloroform	ND		1.0	ug/L			10/13/24 16:52	
Chloromethane	ND		3.0	ug/L			10/13/24 16:52	
cis-1,2-Dichloroethene	ND		1.0	ug/L			10/13/24 16:52	
cis-1,3-Dichloropropene	ND		1.0	ug/L			10/13/24 16:52	
Dibromomethane	ND		1.0	ug/L			10/13/24 16:52	
Dichlorodifluoromethane	ND		1.0	ug/L			10/13/24 16:52	
Ethylbenzene	ND		1.0	ug/L			10/13/24 16:52	
Hexachlorobutadiene	ND		1.0	ug/L			10/13/24 16:52	

Client: Hilcorp Energy Job ID: 885-13072-1

Project/Site: Hare 15 Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-14193/6 **Matrix: Air**

Analysis Batch: 14193

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB N	ИΒ						
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	ug/L			10/13/24 16:52	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			10/13/24 16:52	1
Methylene Chloride	ND		3.0	ug/L			10/13/24 16:52	1
n-Butylbenzene	ND		3.0	ug/L			10/13/24 16:52	1
N-Propylbenzene	ND		1.0	ug/L			10/13/24 16:52	1
Naphthalene	ND		2.0	ug/L			10/13/24 16:52	1
sec-Butylbenzene	ND		1.0	ug/L			10/13/24 16:52	1
Styrene	ND		1.0	ug/L			10/13/24 16:52	1
tert-Butylbenzene	ND		1.0	ug/L			10/13/24 16:52	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			10/13/24 16:52	1
Toluene	ND		1.0	ug/L			10/13/24 16:52	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			10/13/24 16:52	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			10/13/24 16:52	1
Trichloroethene (TCE)	ND		1.0	ug/L			10/13/24 16:52	1
Trichlorofluoromethane	ND		1.0	ug/L			10/13/24 16:52	1
Vinyl chloride	ND		1.0	ug/L			10/13/24 16:52	1
Xylenes, Total	ND		1.5	ug/L			10/13/24 16:52	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102	70 - 130		10/13/24 16:52	1
Toluene-d8 (Surr)	105	70 - 130		10/13/24 16:52	1
4-Bromofluorobenzene (Surr)	90	70 - 130		10/13/24 16:52	1
Dibromofluoromethane (Surr)	109	70 - 130		10/13/24 16:52	1

Lab Sample ID: LCS 885-14193/5

Matrix: Air

Analysis Batch: 14193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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LCS LC	cs
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MB MB

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130

QC Association Summary

Client: Hilcorp Energy Job ID: 885-13072-1 Project/Site: Hare 15

GC/MS VOA

Analysis Batch: 14193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13072-1	Influent 10-1-24	Total/NA	Air	8260B	
MB 885-14193/1006	Method Blank	Total/NA	Air	8260B	
MB 885-14193/6	Method Blank	Total/NA	Air	8260B	
LCS 885-14193/5	Lab Control Sample	Total/NA	Air	8260B	

Analysis Batch: 14247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13072-1	Influent 10-1-24	Total/NA	Air	8015M/D	
MB 885-14247/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-14247/3	Lab Control Sample	Total/NA	Air	8015M/D	

Lab Chronicle

Client: Hilcorp Energy Job ID: 885-13072-1

Project/Site: Hare 15

Client Sample ID: Influent 10-1-24 Lab Sample ID: 885-13072-1

Date Collected: 10/01/24 17:40 Matrix: Air Date Received: 10/03/24 06:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		1	14247	CM	EET ALB	10/13/24 18:05
Total/NA	Analysis	8260B		50	14193	CM	EET ALB	10/13/24 18:05

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Client: Hilcorp Energy Job ID: 885-13072-1 Project/Site: Hare 15

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date		
New Mexico	State	NM9425, NM0901 02-26-25			

include analytes

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
3260B 3260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
02000		/NII	ora- 1,0-promorphoperie

Client: Hilcorp Energy Job ID: 885-13072-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Progra	ım	Identification Number Expiration Date
			not certified by the governing authority. This list may include analytes
for which the agency	does not offer certification.		
Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total
Oregon	NELAF	o	NM100001 02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte		
8015M/D		Air	Gasoline Range Organics [C6 - C10]		
8260B		Air	1,1,1,2-Tetrachloroethane		
8260B		Air	1,1,1-Trichloroethane		
8260B		Air	1,1,2,2-Tetrachloroethane		
8260B		Air	1,1,2-Trichloroethane		
8260B		Air	1,1-Dichloroethane		
8260B		Air	1,1-Dichloroethene		
8260B		Air	1,1-Dichloropropene		
8260B		Air	1,2,3-Trichlorobenzene		
8260B		Air	1,2,3-Trichloropropane		
8260B		Air	1,2,4-Trichlorobenzene		
8260B		Air	1,2,4-Trimethylbenzene		
8260B		Air	1,2-Dibromo-3-Chloropropane		
8260B		Air	1,2-Dibromoethane (EDB)		
8260B		Air	1,2-Dichlorobenzene		
8260B		Air	1,2-Dichloroethane (EDC)		
8260B		Air	1,2-Dichloropropane		
8260B		Air	1,3,5-Trimethylbenzene		
8260B		Air	1,3-Dichlorobenzene		
8260B		Air	1,3-Dichloropropane		
8260B		Air	1,4-Dichlorobenzene		

Eurofins Albuquerque

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Client: Hilcorp Energy Job ID: 885-13072-1 Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progra	am	Identification Number Expiration Date
The following analyte:	s are included in this repo	rt. but the laboratory is i	not certified by the governing authority. This list may include anal
	does not offer certification	•	, 3 3 , , ,
Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

ANALYTICAL SUMMARY REPORT

October 10, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B24100502 Quote ID: B15626

Project Name: 88501698, Hare 15

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 10/4/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matri x	Test
B24100502-001	Influent 10-1-24 (885- 13072-1)	10/01/24 17:40 10/04/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: 88501698, Hare 15 Lab ID: B24100502-001

Client Sample ID: Influent 10-1-24 (885-13072-1)

Report Date: 10/10/24 Collection Date: 10/01/24 17:40 DateReceived: 10/04/24

Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS R	EPORT						
Oxygen	21.47	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Nitrogen	78.06	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Carbon Dioxide	0.40	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Hexanes plus	0.07	Mol %		0.01		GPA 2261-95	10/07/24 12:32 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	10/07/24 12:32 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	10/07/24 12:32 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	10/07/24 12:32 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	10/07/24 12:32 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	10/07/24 12:32 / jrj
Hexanes plus	0.029	gpm		0.001		GPA 2261-95	10/07/24 12:32 / jrj
GPM Total	0.029	gpm		0.001		GPA 2261-95	10/07/24 12:32 / jrj
GPM Pentanes plus	0.029	gpm		0.001		GPA 2261-95	10/07/24 12:32 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	3			1		GPA 2261-95	10/07/24 12:32 / jrj
Net BTU per cu ft @ std cond. (LHV)	3			1		GPA 2261-95	10/07/24 12:32 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	10/07/24 12:32 / jrj
Pseudo-critical Temperature, deg R	240			1		GPA 2261-95	10/07/24 12:32 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	10/07/24 12:32 / jrj
Air, % - The analysis was not corrected for air.	98.10			0.01		GPA 2261-95	10/07/24 12:32 / jrj
•							
COMMENTS							

10/07/24 12:32 / jrj

BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.
GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.
To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.
Standard conditions: 60 F & 14.73 psi on a dry basis

Report RL - Analyte Reporting Limit MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

www.energylab.com

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B24100502 Report Date: 10/10/24

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R430162
Lab ID:	B24100524-001ADUP	12 Sar	mple Duplic	ate			Run: GCNG	A-B_241007A		10/07/	/24 11:42
Oxygen			21.4	Mol %	0.01				0.3	20	
Nitrogen			78.2	Mol %	0.01				0.1	20	
Carbon D	ioxide		0.44	Mol %	0.01				2.3	20	
Hydrogen	Sulfide		<0.01	Mol %	0.01					20	
Methane			<0.01	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutane	•		<0.01	Mol %	0.01					20	
n-Butane			<0.01	Mol %	0.01					20	
Isopentan	ie		< 0.01	Mol %	0.01					20	
n-Pentane	e		< 0.01	Mol %	0.01					20	
Hexanes	plus		<0.01	Mol %	0.01					20	
Lab ID:	LCS100724	11 Lab	ooratory Co	ntrol Sample	Э		Run: GCNG	A-B_241007A		10/07/	/24 02:22
Oxygen			0.63	Mol %	0.01	126	70	130			
Nitrogen			6.15	Mol %	0.01	102	70	130			
Carbon D	ioxide		1.00	Mol %	0.01	101	70	130			
Methane			74.8	Mol %	0.01	100	70	130			
Ethane			6.01	Mol %	0.01	100	70	130			
Propane			5.00	Mol %	0.01	101	70	130			
Isobutane	•		1.64	Mol %	0.01	82	70	130			
n-Butane			2.00	Mol %	0.01	100	70	130			
Isopentan	e		1.01	Mol %	0.01	101	70	130			
n-Pentane	е		1.00	Mol %	0.01	100	70	130			
Hexanes	plus		0.79	Mol %	0.01	99	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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Work Order Receipt Checklist

Hall Environmental

B24100502

_ogin completed by:	Crystal M. Jones		Date	Received: 10/4/2024		
Reviewed by:	cindy		Re	eceived by: CMJ		
Reviewed Date:		Carrier name: FedEx NDA				
Shipping container/cooler in	good condition?	Yes 🗸	No 🗌	Not Present		
Custody seals intact on all s	hipping container(s)/cooler(s)?	Yes ✓	No 🗌	Not Present		
Custody seals intact on all s	ample bottles?	Yes	No 🗌	Not Present ✓		
Chain of custody present?		Yes ✓	No 🗌			
Chain of custody signed whe	en relinquished and received?	Yes ✓	No 🗌			
Chain of custody agrees with	n sample labels?	Yes ✓	No 🗌			
Samples in proper container	/bottle?	Yes ✓	No 🗌			
Sample containers intact?		Yes ✓	No 🗌			
Sufficient sample volume for	indicated test?	Yes √	No 🗌			
All samples received within h Exclude analyses that are c such as pH, DO, Res Cl, Su	onsidered field parameters	Yes 🗸	No 🗌			
Гетр Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable		
Container/Temp Blank tempe	erature:	13.2°C No Ice				
Containers requiring zero he bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted ✓		
Vater - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable 🔽		

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Environment Testing totes Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to above for analysis/fasts/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to certeid the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. Special Instructions/Note: Ver: 05/06/202 B24100507 Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont See Attached Instruction 💸 eurofins Job #: 885-13072-1 Page: Page 1 of 1 COC No: 885-2242.1 8950 Total Number of containers Jate/Time. Method of Shipment: State of Origin: New Mexico Analysis Requested The Special Instructions/QC Requirements E-Mail:
michelle, garcia@et eurofinsus.com
Accreditations Required (See note):
NELAP - Oregon; State - New Mexico Received by: Received by: Chain of Custody Record Lab PM: Garcia, Michelle SUB (Fixed Gases)/ Fixed Gases Perform MS/MSD (Yes or No) ime: Matrix (w=water, 8=solid, O=waste/oil tion Code Air Company Company Type (C=comp, G=grab) Sample O Primary Deliverable Rank: 2 Sample Time Mountain Due Date Requested: 10/10/2024 TAT Requested (days): Date: Date/Time /3/74 Sample Date 10/1/24 Project #: 88501698 SSOW#: Date/Time: Date/Time: Phone: WO# Client Information (Sub Contract Lab) eliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Sample Identification - Client ID (Lab ID) Albuquerque, NM 87109 Phone: 505-345-3975 Fax: 505-345-4107 ossible Hazard Identification Influent 10-1-24 (885-13072-1) npty Kit Relinquished by Energy Laboratories, Inc. Custody Seals Intact:

A Yes A No 120 South 27th Street, Shipping/Receiving 106-252-6325(Tel) 4901 Hawkins NE

Page 5 of 6 10/17/2024

nquished by:

nconfirmed

State, Zip: MT, 59101

Billings

Project Name: Hare 15

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Page 6 of 6 10/17/2024

ICOC No: 885-2242

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Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-13072-1

Login Number: 13072 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

Generated 11/7/2024 3:38:15 PM

JOB DESCRIPTION

Hare 15

JOB NUMBER

885-13869-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

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Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975

11/7/2024

Client: Hilcorp Energy
Laboratory Job ID: 885-13869-1
Project/Site: Hare 15

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Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-13869-1

Glossary

MCL

MDA

Project/Site: Hare 15

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive Quality Control QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Hilcorp Energy Job ID: 885-13869-1 Project: Hare 15

Job ID: 885-13869-1 Eurofins Albuquerque

Job Narrative 885-13869-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 10/17/2024 6:32 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Gasoline Range Organics

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

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 885-14693 recovered outside acceptance criteria, low biased, for Bromomethane. The CCV meets 8260B criteria. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

Eurofins Albuquerque

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Client Sample Results

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

Client Sample ID: Influent 10-16-24

Date Collected: 10/16/24 14:20 Date Received: 10/17/24 06:32

Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-13869-1

Matrix: Air

analyte		Qualifier	RL	Unit	<u>D</u> .	Prepared	Analyzed	Dil I
Gasoline Range Organics [C6 - C10]	18		5.0	ug/L			10/21/24 14:07	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil
I-Bromofluorobenzene (Surr)		Quamer	52 - 172			. ropurcu	10/21/24 14:07	
Bromondorobenzene (Garr)	70		02 - 172				10/21/24 14:01	
Method: SW846 8260B - Volatile	Organic Comp	ounds (GC	MS)					
analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil I
1,1,2-Tetrachloroethane	ND		0.50	ug/L			10/22/24 12:15	
,1,1-Trichloroethane	ND		0.50	ug/L			10/22/24 12:15	
1,2,2-Tetrachloroethane	ND		1.0	ug/L			10/22/24 12:15	
1,2-Trichloroethane	ND		0.50	ug/L			10/22/24 12:15	
1-Dichloroethane	ND		0.50	ug/L			10/22/24 12:15	
1-Dichloroethene	ND		0.50	ug/L			10/22/24 12:15	
1-Dichloropropene	ND		0.50	ug/L			10/22/24 12:15	
2,3-Trichlorobenzene	ND		0.50	ug/L			10/22/24 12:15	
2,3-Trichloropropane	ND		1.0	ug/L			10/22/24 12:15	
2,4-Trichlorobenzene	ND		0.50	ug/L			10/22/24 12:15	
2,4-Trimethylbenzene	0.57		0.50	ug/L			10/22/24 12:15	
2-Dibromo-3-Chloropropane	ND		1.0	ug/L			10/22/24 12:15	
2-Dibromoethane (EDB)	ND		0.50	ug/L			10/22/24 12:15	
2-Dichlorobenzene	ND		0.50	ug/L			10/22/24 12:15	
2-Dichloroethane (EDC)	ND		0.50	ug/L			10/22/24 12:15	
2-Dichloropropane	ND		0.50	ug/L			10/22/24 12:15	
3,5-Trimethylbenzene	0.75		0.50	ug/L			10/22/24 12:15	
3-Dichlorobenzene	ND.		0.50	ug/L			10/22/24 12:15	
3-Dichloropropane	ND		0.50	ug/L			10/22/24 12:15	
4-Dichlorobenzene	ND		0.50	ug/L			10/22/24 12:15	
Methylnaphthalene	ND		2.0	ug/L			10/22/24 12:15	
2-Dichloropropane	ND		1.0				10/22/24 12:15	
Butanone	ND ND		5.0	ug/L			10/22/24 12:15	
Chlorotoluene	ND ND		0.50	ug/L			10/22/24 12:15	
				ug/L				
Hexanone	ND		5.0	ug/L			10/22/24 12:15	
Methylnaphthalene	ND		2.0	ug/L			10/22/24 12:15	
Chlorotoluene	ND		0.50	ug/L			10/22/24 12:15	
Isopropyltoluene	ND		0.50	ug/L			10/22/24 12:15	
Methyl-2-pentanone	ND		5.0	ug/L			10/22/24 12:15	
etone	ND		5.0	ug/L			10/22/24 12:15	
enzene	2.3		0.50	ug/L			10/22/24 12:15	
omobenzene	ND		0.50	ug/L			10/22/24 12:15	
omodichloromethane	ND		0.50	ug/L			10/22/24 12:15	
promochloromethane	ND		0.50	ug/L			10/22/24 12:15	
omoform	ND		0.50	ug/L			10/22/24 12:15	
omomethane	ND		1.5	ug/L			10/22/24 12:15	
arbon disulfide	ND		5.0	ug/L			10/22/24 12:15	
arbon tetrachloride	ND		0.50	ug/L			10/22/24 12:15	
nlorobenzene	ND		0.50	ug/L			10/22/24 12:15	
nloroethane	ND		1.0	ug/L			10/22/24 12:15	
nloroform	ND		0.50	ug/L			10/22/24 12:15	

Client Sample Results

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

Trichlorofluoromethane

Vinyl chloride

Xylenes, Total

Client Sample ID: Influent 10-16-24

Date Collected: 10/16/24 14:20 Date Received: 10/17/24 06:32

Sample Container: Tedlar Bag 1L

ah Cample ID: 005 42000 4

Lab Sample ID: 885-13869-1

10/22/24 12:15

10/22/24 12:15

10/22/24 12:15

5

5

5

Matrix: Air

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Method: SW846 8260B - Volatile	Organic Compounds (GC/M	MS) (Continued)				
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
Chloromethane	ND ND	1.5	ug/L		10/22/24 12:15	5
cis-1,2-Dichloroethene	ND	0.50	ug/L		10/22/24 12:15	5
cis-1,3-Dichloropropene	ND	0.50	ug/L		10/22/24 12:15	5
Dibromomethane	ND	0.50	ug/L		10/22/24 12:15	5
Dichlorodifluoromethane	ND	0.50	ug/L		10/22/24 12:15	5
Ethylbenzene	0.68	0.50	ug/L		10/22/24 12:15	5
Hexachlorobutadiene	ND	0.50	ug/L		10/22/24 12:15	5
Isopropylbenzene	ND	0.50	ug/L		10/22/24 12:15	5
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/L		10/22/24 12:15	5
Methylene Chloride	ND	1.5	ug/L		10/22/24 12:15	5
n-Butylbenzene	ND	1.5	ug/L		10/22/24 12:15	5
N-Propylbenzene	ND	0.50	ug/L		10/22/24 12:15	5
Naphthalene	ND	1.0	ug/L		10/22/24 12:15	5
sec-Butylbenzene	ND	0.50	ug/L		10/22/24 12:15	5
Styrene	ND	0.50	ug/L		10/22/24 12:15	5
tert-Butylbenzene	ND	0.50	ug/L		10/22/24 12:15	5
Tetrachloroethene (PCE)	ND	0.50	ug/L		10/22/24 12:15	5
Toluene	9.8	0.50	ug/L		10/22/24 12:15	5
trans-1,2-Dichloroethene	ND	0.50	ug/L		10/22/24 12:15	5
trans-1,3-Dichloropropene	ND	0.50	ug/L		10/22/24 12:15	5
Trichloroethene (TCE)	ND	0.50	ug/L		10/22/24 12:15	5

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	70 - 130		10/22/24 12:15	5
Toluene-d8 (Surr)	120	70 - 130		10/22/24 12:15	5
4-Bromofluorobenzene (Surr)	98	70 - 130		10/22/24 12:15	5
Dibromofluoromethane (Surr)	97	70 - 130		10/22/24 12:15	5

0.50

0.50

0.75

ug/L

ug/L

ug/L

ND

ND

11

QC Sample Results

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-14686/4 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air

Analysis Batch: 14686

Analysis Dateil. 14000								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			10/21/24 13:42	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		52 - 172		_		10/21/24 13:42	1

Lab Sample ID: LCS 885-14686/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Air

Analysis Batch: 14686

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics [C6 -	4250	4970		ug/L		117	70 - 130	

C10]

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 52 - 172 85

Client Sample ID: Influent 10-16-24 Lab Sample ID: 885-13869-1 DU Prep Type: Total/NA

Matrix: Air

Analysis Batch: 14686

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Gasoline Range Organics [C6 -	18		19.3		ug/L		7	20
C10]								

DU DU

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 74 52 - 172

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-14693/1006 Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA

Analysis Batch: 14693

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	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			10/22/24 11:50	1
1,1,1-Trichloroethane	ND		0.10	ug/L			10/22/24 11:50	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			10/22/24 11:50	1
1,1,2-Trichloroethane	ND		0.10	ug/L			10/22/24 11:50	1
1,1-Dichloroethane	ND		0.10	ug/L			10/22/24 11:50	1
1,1-Dichloroethene	ND		0.10	ug/L			10/22/24 11:50	1
1,1-Dichloropropene	ND		0.10	ug/L			10/22/24 11:50	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			10/22/24 11:50	1
1,2,3-Trichloropropane	ND		0.20	ug/L			10/22/24 11:50	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			10/22/24 11:50	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			10/22/24 11:50	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			10/22/24 11:50	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			10/22/24 11:50	1
1,2-Dichlorobenzene	ND		0.10	ug/L			10/22/24 11:50	1

QC Sample Results

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-14693/1006

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Air							Prep Type:	Total/NA
Analysis Batch: 14693	МВ	MR						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane (EDC)	ND		0.10	ug/L		-	10/22/24 11:50	1
1,2-Dichloropropane	ND		0.10	ug/L			10/22/24 11:50	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			10/22/24 11:50	1
1,3-Dichlorobenzene	ND		0.10	ug/L			10/22/24 11:50	1
1,3-Dichloropropane	ND		0.10	ug/L			10/22/24 11:50	1
1,4-Dichlorobenzene	ND		0.10	ug/L			10/22/24 11:50	1
1-Methylnaphthalene	ND		0.40	ug/L			10/22/24 11:50	1
2,2-Dichloropropane	ND		0.20	ug/L			10/22/24 11:50	1
2-Butanone	ND		1.0	ug/L			10/22/24 11:50	1
2-Chlorotoluene	ND		0.10	ug/L			10/22/24 11:50	1
2-Hexanone	ND		1.0	ug/L			10/22/24 11:50	1
2-Methylnaphthalene	ND		0.40	ug/L			10/22/24 11:50	1
4-Chlorotoluene	ND		0.10	ug/L			10/22/24 11:50	1
4-Isopropyltoluene	ND		0.10	ug/L			10/22/24 11:50	1
4-Methyl-2-pentanone	ND		1.0	ug/L			10/22/24 11:50	1
Acetone	ND		1.0	ug/L			10/22/24 11:50	1
Benzene	ND		0.10	ug/L			10/22/24 11:50	1
Bromobenzene	ND		0.10	ug/L			10/22/24 11:50	
Bromodichloromethane	ND		0.10	ug/L			10/22/24 11:50	
Dibromochloromethane	ND		0.10	ug/L			10/22/24 11:50	
Bromoform	ND		0.10	ug/L			10/22/24 11:50	. 1
Bromomethane	ND		0.30	ug/L			10/22/24 11:50	
Carbon disulfide	ND		1.0	ug/L			10/22/24 11:50	· · · · · · · · · · · · · · · · · · ·
Carbon tetrachloride	ND		0.10	ug/L			10/22/24 11:50	1
Chlorobenzene	ND		0.10	ug/L			10/22/24 11:50	1
Chloroethane	ND		0.20	ug/L			10/22/24 11:50	
Chloroform	ND		0.10	ug/L			10/22/24 11:50	1
Chloromethane	ND		0.30	ug/L			10/22/24 11:50	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			10/22/24 11:50	
cis-1,3-Dichloropropene	ND		0.10	ug/L			10/22/24 11:50	1
Dibromomethane	ND		0.10	ug/L			10/22/24 11:50	1
Dichlorodifluoromethane	ND		0.10	.			10/22/24 11:50	
Ethylbenzene	ND		0.10	ug/L ug/L			10/22/24 11:50	1
Hexachlorobutadiene	ND ND		0.10	ug/L ug/L			10/22/24 11:50	1
Isopropylbenzene	ND		0.10				10/22/24 11:50	
	ND ND		0.10	ug/L			10/22/24 11:50	1
Methyl-tert-butyl Ether (MTBE)				ug/L				1
Methylene Chloride	ND		0.30	ug/L			10/22/24 11:50	1
n-Butylbenzene	ND		0.30	ug/L			10/22/24 11:50	1
N-Propylbenzene	ND		0.10	ug/L			10/22/24 11:50	1
Naphthalene	ND		0.20	ug/L			10/22/24 11:50	1
sec-Butylbenzene	ND		0.10	ug/L			10/22/24 11:50	1
Styrene	ND		0.10	ug/L			10/22/24 11:50	1
tert-Butylbenzene	ND		0.10	ug/L			10/22/24 11:50	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			10/22/24 11:50	1
Toluene	ND		0.10	ug/L			10/22/24 11:50	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			10/22/24 11:50	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			10/22/24 11:50	1
Trichloroethene (TCE)	ND		0.10	ug/L			10/22/24 11:50	1
Trichlorofluoromethane	ND		0.10	ug/L			10/22/24 11:50	1

Client: Hilcorp Energy

Job ID: 885-13869-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

мв мв

Lab Sample ID: MB 885-14693/1006

Matrix: Air

Analysis Batch: 14693

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND ND	0.10	ug/L			10/22/24 11:50	1
Xylenes, Total	ND	0.15	ug/L			10/22/24 11:50	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130	·		10/22/24 11:50	1
Toluene-d8 (Surr)	98		70 - 130			10/22/24 11:50	1
4-Bromofluorobenzene (Surr)	91		70 - 130			10/22/24 11:50	1
Dibromofluoromethane (Surr)	106		70 - 130			10/22/24 11:50	1

Lab Sample ID: MB 885-14693/6 **Client Sample ID: Method Blank Prep Type: Total/NA** Matrix: Air

Analysis Batch: 14693

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			10/22/24 11:50	1
1,1,1-Trichloroethane	ND		1.0	ug/L			10/22/24 11:50	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			10/22/24 11:50	1
1,1,2-Trichloroethane	ND		1.0	ug/L			10/22/24 11:50	1
1,1-Dichloroethane	ND		1.0	ug/L			10/22/24 11:50	1
1,1-Dichloroethene	ND		1.0	ug/L			10/22/24 11:50	1
1,1-Dichloropropene	ND		1.0	ug/L			10/22/24 11:50	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			10/22/24 11:50	1
1,2,3-Trichloropropane	ND		2.0	ug/L			10/22/24 11:50	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			10/22/24 11:50	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			10/22/24 11:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			10/22/24 11:50	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			10/22/24 11:50	1
1,2-Dichlorobenzene	ND		1.0	ug/L			10/22/24 11:50	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			10/22/24 11:50	1
1,2-Dichloropropane	ND		1.0	ug/L			10/22/24 11:50	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			10/22/24 11:50	1
1,3-Dichlorobenzene	ND		1.0	ug/L			10/22/24 11:50	1
1,3-Dichloropropane	ND		1.0	ug/L			10/22/24 11:50	1
1,4-Dichlorobenzene	ND		1.0	ug/L			10/22/24 11:50	1
1-Methylnaphthalene	ND		4.0	ug/L			10/22/24 11:50	1
2,2-Dichloropropane	ND		2.0	ug/L			10/22/24 11:50	1
2-Butanone	ND		10	ug/L			10/22/24 11:50	1
2-Chlorotoluene	ND		1.0	ug/L			10/22/24 11:50	1
2-Hexanone	ND		10	ug/L			10/22/24 11:50	1
2-Methylnaphthalene	ND		4.0	ug/L			10/22/24 11:50	1
4-Chlorotoluene	ND		1.0	ug/L			10/22/24 11:50	1
4-Isopropyltoluene	ND		1.0	ug/L			10/22/24 11:50	1
4-Methyl-2-pentanone	ND		10	ug/L			10/22/24 11:50	1
Acetone	ND		10	ug/L			10/22/24 11:50	1
Benzene	ND		1.0	ug/L			10/22/24 11:50	1
Bromobenzene	ND		1.0	ug/L			10/22/24 11:50	1
Bromodichloromethane	ND		1.0	ug/L			10/22/24 11:50	1
Dibromochloromethane	ND		1.0	ug/L			10/22/24 11:50	1

Client: Hilcorp Energy

Job ID: 885-13869-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

мв мв

Lab Sample ID: MB 885-14693/6

Matrix: Air

Analysis Batch: 14693

Client Sample ID: Method Blank

Prep Type: Total/NA

	INID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	ug/L			10/22/24 11:50	1
Bromomethane	ND		3.0	ug/L			10/22/24 11:50	1
Carbon disulfide	ND		10	ug/L			10/22/24 11:50	1
Carbon tetrachloride	ND		1.0	ug/L			10/22/24 11:50	1
Chlorobenzene	ND		1.0	ug/L			10/22/24 11:50	1
Chloroethane	ND		2.0	ug/L			10/22/24 11:50	1
Chloroform	ND		1.0	ug/L			10/22/24 11:50	1
Chloromethane	ND		3.0	ug/L			10/22/24 11:50	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			10/22/24 11:50	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			10/22/24 11:50	1
Dibromomethane	ND		1.0	ug/L			10/22/24 11:50	1
Dichlorodifluoromethane	ND		1.0	ug/L			10/22/24 11:50	1
Ethylbenzene	ND		1.0	ug/L			10/22/24 11:50	1
Hexachlorobutadiene	ND		1.0	ug/L			10/22/24 11:50	1
Isopropylbenzene	ND		1.0	ug/L			10/22/24 11:50	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			10/22/24 11:50	1
Methylene Chloride	ND		3.0	ug/L			10/22/24 11:50	1
n-Butylbenzene	ND		3.0	ug/L			10/22/24 11:50	1
N-Propylbenzene	ND		1.0	ug/L			10/22/24 11:50	1
Naphthalene	ND		2.0	ug/L			10/22/24 11:50	1
sec-Butylbenzene	ND		1.0	ug/L			10/22/24 11:50	1
Styrene	ND		1.0	ug/L			10/22/24 11:50	1
tert-Butylbenzene	ND		1.0	ug/L			10/22/24 11:50	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			10/22/24 11:50	1
Toluene	ND		1.0	ug/L			10/22/24 11:50	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			10/22/24 11:50	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			10/22/24 11:50	1
Trichloroethene (TCE)	ND		1.0	ug/L			10/22/24 11:50	1
Trichlorofluoromethane	ND		1.0	ug/L			10/22/24 11:50	1
Vinyl chloride	ND		1.0	ug/L			10/22/24 11:50	1
Xylenes, Total	ND		1.5	ug/L			10/22/24 11:50	1
	МВ	MB						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		10/22/24 11:50	1
Toluene-d8 (Surr)	98		70 - 130		10/22/24 11:50	1
4-Bromofluorobenzene (Surr)	91		70 - 130		10/22/24 11:50	1
Dibromofluoromethane (Surr)	106		70 - 130		10/22/24 11:50	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 14693

Matrix: Air

Lab Sample ID: LCS 885-14693/5

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.1	19.4		ug/L		97	70 - 130	
Benzene	20.1	21.1		ug/L		105	70 - 130	
Chlorobenzene	20.1	20.8		ug/L		104	70 - 130	
Toluene	20.2	20.1		ug/L		99	70 - 130	
Trichloroethene (TCE)	20.2	19.7		ug/L		97	70 - 130	

Client: Hilcorp Energy Job ID: 885-13869-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

LCS LCS

Lab Sample ID: LCS 885-14693/5

Released to Imaging: 1/16/2025 2:16:43 PM

Matrix: Air

Analysis Batch: 14693

Project/Site: Hare 15

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 107 70 - 130 70 - 130 Toluene-d8 (Surr) 96 92 70 - 130 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) 106 70 - 130

Client Sample ID: Influent 10-16-24 Lab Sample ID: 885-13869-1 DU

Matrix: Air Prep Type: Total/NA

Analysis Batch: 14693

	Sample Sample	DU	DU				RPD
Analyte	Result Qualifier	Result	Qualifier	Unit	D	RPD	Limit
1,1,1,2-Tetrachloroethane	ND —	ND		ug/L		NC NC	20
1,1,1-Trichloroethane	ND	ND		ug/L		NC	20
1,1,2,2-Tetrachloroethane	ND	ND		ug/L		NC	20
1,1,2-Trichloroethane	ND	ND		ug/L		NC	20
1,1-Dichloroethane	ND	ND		ug/L		NC	20
1,1-Dichloroethene	ND	ND		ug/L		NC	20
1,1-Dichloropropene	ND	ND		ug/L		NC	20
1,2,3-Trichlorobenzene	ND	ND		ug/L		NC	20
1,2,3-Trichloropropane	ND	ND		ug/L		NC	20
1,2,4-Trichlorobenzene	ND	ND		ug/L		NC	20
1,2,4-Trimethylbenzene	0.57	0.609		ug/L		6	20
1,2-Dibromo-3-Chloropropane	ND	ND		ug/L		NC	20
1,2-Dibromoethane (EDB)	ND	ND		ug/L		NC	20
1,2-Dichlorobenzene	ND	ND		ug/L		NC	20
1,2-Dichloroethane (EDC)	ND	ND		ug/L		NC	20
1,2-Dichloropropane	ND	ND		ug/L		NC	20
1,3,5-Trimethylbenzene	0.75	0.735		ug/L		2	20
1,3-Dichlorobenzene	ND	ND		ug/L		NC	20
1,3-Dichloropropane	ND	ND		ug/L		NC	20
1,4-Dichlorobenzene	ND	ND		ug/L		NC	20
1-Methylnaphthalene	ND	ND		ug/L		NC	20
2,2-Dichloropropane	ND	ND		ug/L		NC	20
2-Butanone	ND	ND		ug/L		NC	20
2-Chlorotoluene	ND	ND		ug/L		NC	20
2-Hexanone	ND	ND		ug/L		NC	20
2-Methylnaphthalene	ND	ND		ug/L		NC	20
4-Chlorotoluene	ND	ND		ug/L		NC	20
4-Isopropyltoluene	ND	ND		ug/L		NC	20
4-Methyl-2-pentanone	ND	ND		ug/L		NC	20
Acetone	ND	ND		ug/L		NC	20
Benzene	2.3	2.24		ug/L		3	20
Bromobenzene	ND	ND		ug/L		NC	20
Bromodichloromethane	ND	ND		ug/L		NC	20
Dibromochloromethane	ND	ND		ug/L		NC	20
Bromoform	ND	ND		ug/L		NC	20
Bromomethane	ND	ND		ug/L		NC	20
Carbon disulfide	ND	ND		ug/L		NC	20
Carbon tetrachloride	ND	ND		ug/L		NC	20

QC Sample Results

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

ND

ND

ND

0.68

ND

Lab Sample ID: 885-13869-1 DU

Matrix: Air

Analysis Batch: 14693

cis-1,3-Dichloropropene

Dichlorodifluoromethane

Hexachlorobutadiene

Dibromomethane

Ethylbenzene

Client Sample ID: Influent 10-16-24

Prep Type: Total/NA

	Lilling	
NC	20	

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20

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20

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20

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	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RF	D	Limit
Chlorobenzene	ND		ND		ug/L			IC	20
Chloroethane	ND		ND		ug/L		N	IC	20
Chloroform	ND		ND		ug/L		N	IC	20
Chloromethane	ND		ND		ug/L		N		20
cis-1,2-Dichloroethene	ND		ND		ug/L		N	IC	20

ND

ND

ND

ND

0.683

ug/L NC 20 ug/L NC 20 ug/L NC 20 ug/L 20 ug/L NC 20 20

ND ND Isopropylbenzene ug/L NC Methyl-tert-butyl Ether (MTBE) ND ND ug/L NC Methylene Chloride ND ND ug/L NC ND ug/L n-Butylbenzene ND NC N-Propylbenzene ND ND ug/L NC

Naphthalene ND ND ug/L NC 20 sec-Butylbenzene ND ND ug/L NC 20 ND ND NC ug/L 20 Styrene tert-Butylbenzene ND ND ug/L NC 20 Tetrachloroethene (PCE) ND ND ug/L NC 20 Toluene 9.8 9.55 ug/L 3 20 trans-1.2-Dichloroethene ND ND ug/L NC 20

trans-1,3-Dichloropropene ND ND ug/L NC Trichloroethene (TCE) ND ND ug/L NC ND Trichlorofluoromethane ND ug/L NC Vinyl chloride ND ND ug/L NC Xylenes, Total 11 11.4 ug/L 0.4

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Toluene-d8 (Surr)	120		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

QC Association Summary

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

GC/MS VOA

Analysis Batch: 14686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13869-1	Influent 10-16-24	Total/NA	Air	8015M/D	
MB 885-14686/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-14686/3	Lab Control Sample	Total/NA	Air	8015M/D	
885-13869-1 DU	Influent 10-16-24	Total/NA	Air	8015M/D	

Analysis Batch: 14693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13869-1	Influent 10-16-24	Total/NA	Air	8260B	
MB 885-14693/1006	Method Blank	Total/NA	Air	8260B	
MB 885-14693/6	Method Blank	Total/NA	Air	8260B	
LCS 885-14693/5	Lab Control Sample	Total/NA	Air	8260B	
885-13869-1 DU	Influent 10-16-24	Total/NA	Air	8260B	

Eurofins Albuquerque

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Lab Chronicle

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

Client Sample ID: Influent 10-16-24 Lab Sample ID: 885-13869-1

Date Collected: 10/16/24 14:20 Matrix: Air

Date Received: 10/17/24 06:32

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		1	14686	СМ	EET ALB	10/21/24 14:07
Total/NA	Analysis	8260B		5	14693	CM	EET ALB	10/22/24 12:15

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque

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

New Mexico State NM9425, NM0901 02-26-25 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte Gasoline Range Organics [C6 - C10] 8260B Air 1,1,1,2-Tetrachloroethane 8260B Air 1,1,2-Zetrachloroethane 8260B Air 1,1,2-Zetrachloroethane 8260B Air 1,1,2-Trichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,2-3-Trichloroptopene 8260B Air 1,2,3-Trichlorobenzene 8260B Air 1,2-4-Trichlorobenzene 8260B Air 1,2-4-Trichlorobenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B 8260B Air 1,2-Dibromethane (EDB) 8260B 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroptopane 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroptopane 8260B Air 1,2-Dichloroptopane	Authority	Prog	ram	Identification Number	Expiration Date
for which the agency does not offer certification. Analysis Method Prep Method Air Gasoline Range Organics [C6 - C10] 8260B Air 1,1,2-Tetrachloroethane 8260B Air 1,1,2-Tetrachloroethane 8260B Air 1,1,2-Tetrachloroethane 8260B Air 1,1,2-Trichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloroptopene 8260B Air 1,2-3-Trichloroptopene 8260B Air 1,2-3-Trichloroptopene 8260B Air 1,2-3-Trichloroptopene 8260B Air 1,2-3-Trichloroptopene 8260B Air 1,2-4-Trimethylbenzene 8260B Air 1,2-4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromo-4-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloropropane		State	•	NM9425, NM0901	02-26-25
8015M/D Air Gasoline Range Organics [C6 - C10] 8260B Air 1,1,1,2-Tetrachloroethane 8260B Air 1,1,1-Trichloroethane 8260B Air 1,1,2-Tetrachloroethane 8260B Air 1,1,2-Trichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloropropene 8260B Air 1,2,3-Trichlorobenzene 8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,4-Trichlorobenzene 8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane			out the laboratory is not certi	fied by the governing authority. This lis	st may include analytes
8260B Air 1,1,1,2-Tetrachloroethane 8260B Air 1,1,1-Trichloroethane 8260B Air 1,1,2,2-Tetrachloroethane 8260B Air 1,1,2-Trichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloropropene 8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloropenzene 8260	Analysis Method	Prep Method	Matrix	Analyte	
8260B Air 1,1,1-Trichloroethane 8260B Air 1,1,2-Tetrachloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloroethene 8260B Air 1,1-Dichloropropene 8260B Air 1,2,3-Trichlorobenzene 8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,4-Trichlorobenzene 8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane	8015M/D		Air	Gasoline Range Organics	[C6 - C10]
8260B Air 1,1,2,2-Tetrachloroethane 8260B Air 1,1,2-Trichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloropethane 8260B Air 1,1-Dichloropropene 8260B Air 1,2,3-Trichlorobenzene 8260B Air 1,2,4-Trichlorobenzene 8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane	8260B		Air	1,1,1,2-Tetrachloroethane	
8260B Air 1,1,2-Trichloroethane 8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloroethene 8260B Air 1,1-Dichloropropene 8260B Air 1,2,3-Trichlorobenzene 8260B Air 1,2,4-Trichlorobenzene 8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane	8260B		Air	1,1,1-Trichloroethane	
8260B Air 1,1-Dichloroethane 8260B Air 1,1-Dichloroethene 8260B Air 1,1-Dichloropropene 8260B Air 1,2,3-Trichlorobenzene 8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane	8260B		Air	1,1,2,2-Tetrachloroethane	
8260B Air 1,1-Dichloroethene 8260B Air 1,2,3-Trichloropropene 8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,4-Trinethylopenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane			Air	1,1,2-Trichloroethane	
8260B Air 1,1-Dichloropropene 8260B Air 1,2,3-Trichlorobenzene 8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,4-Trinethyloenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,3,5-Trimethylbenzene					
8260B Air 1,2,3-Trichlorobenzene 8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,4-Trichlorobenzene 8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,3,5-Trimethylbenzene					
8260B Air 1,2,3-Trichloropropane 8260B Air 1,2,4-Trichlorobenzene 8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,3,5-Trimethylbenzene					
8260B Air 1,2,4-Trichlorobenzene 8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,3,5-Trimethylbenzene					
8260B Air 1,2,4-Trimethylbenzene 8260B Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,3-Trimethylbenzene					
Air 1,2-Dibromo-3-Chloropropane 8260B Air 1,2-Dibromoethane (EDB) 8260B Air 1,2-Dichlorobenzene 8260B Air 1,2-Dichloroethane (EDC) 8260B Air 1,2-Dichloropropane 8260B Air 1,2-Dichloropropane 8260B Air 1,3-5-Trimethylbenzene				* *	
8260BAir1,2-Dibromoethane (EDB)8260BAir1,2-Dichlorobenzene8260BAir1,2-Dichloroethane (EDC)8260BAir1,2-Dichloropropane8260BAir1,3,5-Trimethylbenzene				•	
8260BAir1,2-Dichlorobenzene8260BAir1,2-Dichloroethane (EDC)8260BAir1,2-Dichloropropane8260BAir1,3,5-Trimethylbenzene					
8260BAir1,2-Dichloroethane (EDC)8260BAir1,2-Dichloropropane8260BAir1,3,5-Trimethylbenzene				·)
8260B Air 1,2-Dichloropropane 8260B Air 1,3,5-Trimethylbenzene					
8260B Air 1,3,5-Trimethylbenzene)
•					
6200B All 1,3-DIGITODETIZETE				•	
8260B Air 1,3-Dichloropropane					
8260B Air 1,4-Dichlorobenzene					
8260B Air 1-Methylnaphthalene					
8260B Air 2,2-Dichloropropane				• •	
8260B Air 2-Butanone					
8260B Air 2-Chlorotoluene					
8260B Air 2-Hexanone					
8260B Air 2-Methylnaphthalene					
8260B Air 4-Chlorotoluene				• •	
8260B Air 4-Isopropyltoluene					
8260B Air 4-Methyl-2-pentanone			Air	· · · ·	
8260B Air Acetone				• •	
8260B Air Benzene				Benzene	
8260B Air Bromobenzene	8260B		Air	Bromobenzene	
8260B Air Bromodichloromethane	8260B		Air	Bromodichloromethane	
8260B Air Bromoform	8260B		Air	Bromoform	
8260B Air Bromomethane	8260B		Air	Bromomethane	
8260B Air Carbon disulfide	8260B		Air	Carbon disulfide	
8260B Air Carbon tetrachloride	8260B		Air	Carbon tetrachloride	
8260B Air Chlorobenzene	8260B		Air	Chlorobenzene	
8260B Air Chloroethane	8260B		Air	Chloroethane	
8260B Air Chloroform	8260B		Air	Chloroform	

Air

Air

Air

Air

Eurofins Albuquerque

Chloromethane

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dibromochloromethane

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8260B

8260B

8260B

8260B

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

hority	Progra	am	Identification Number	Expiration Date
The following analytes	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This	list may include analyte
for which the agency d	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	•
8260B		Air	Ethylbenzene	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (I	MTBE)
8260B		Air	Naphthalene	
8260B		Air	n-Butylbenzene	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethene	Э
8260B		Air	trans-1,3-Dichloropropei	ne
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	
ion	NELA	P	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-13869-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progra	m	Identification Number Expirat	ion Date
	are included in this report, but oes not offer certification.	the laboratory is not certif	ied by the governing authority. This list may include	de analyte
Analysis Method	Prep Method	Matrix	Analyte	
8260B	<u> </u>	Air	1-Methylnaphthalene	
8260B		Air	2,2-Dichloropropane	
8260B		Air	2-Butanone	
8260B		Air	2-Chlorotoluene	
8260B		Air	2-Hexanone	
8260B		Air	2-Methylnaphthalene	
8260B		Air	4-Chlorotoluene	
8260B		Air	4-Isopropyltoluene	
8260B		Air	4-Methyl-2-pentanone	
8260B		Air	Acetone	
8260B		Air	Benzene	
8260B		Air	Bromobenzene	
8260B		Air	Bromodichloromethane	
8260B		Air	Bromoform	
8260B		Air	Bromomethane	
8260B		Air	Carbon disulfide	
8260B		Air	Carbon tetrachloride	
8260B		Air	Chlorobenzene	
8260B		Air	Chloroethane	
8260B		Air	Chloroform	
8260B		Air	Chloromethane	
8260B		Air	cis-1,2-Dichloroethene	
8260B		Air	cis-1,3-Dichloropropene	
8260B		Air	Dibromochloromethane	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air	Ethylbenzene	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (MTBE)	
8260B		Air	Naphthalene	
8260B		Air	n-Butylbenzene	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B			·	
		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)	
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethene	
8260B		Air	trans-1,3-Dichloropropene	
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	

Eurofins Albuquerque

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ANALYTICAL SUMMARY REPORT

October 24, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B24101807 Quote ID: B15626

Project Name: Hare 15, 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 10/22/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matri x	Test
B24101807-001	Influent 10-16-24 (885- 13869-1)	10/16/24 14:20 10/22/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

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ge 1 of 7 11/7/2024 Client Sample ID: Influent 10-16-24 (885-13869-1)

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Gillette, WY 307.686.7175 . Helena, MT 406.442.0711

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: Hare 15, 88501698 Lab ID: B24101807-001

Collection Date: 10/16/24 14:20 DateReceived: 10/22/24

Matrix: Air

10/23/24 09:56 / jrj

Report Date: 10/24/24

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS I	REPORT						
Oxygen	21.65	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Nitrogen	78.08	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Carbon Dioxide	0.23	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Methane	0.01	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Hexanes plus	0.03	Mol %		0.01		GPA 2261-95	10/23/24 09:56 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	10/23/24 09:56 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	10/23/24 09:56 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	10/23/24 09:56 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	10/23/24 09:56 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	10/23/24 09:56 / jrj
Hexanes plus	0.013	gpm		0.001		GPA 2261-95	10/23/24 09:56 / jrj
GPM Total	0.013	gpm		0.001		GPA 2261-95	10/23/24 09:56 / jrj
GPM Pentanes plus	0.013	gpm		0.001		GPA 2261-95	10/23/24 09:56 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	2			1		GPA 2261-95	10/23/24 09:56 / jrj
Net BTU per cu ft @ std cond. (LHV)	1			1		GPA 2261-95	10/23/24 09:56 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	10/23/24 09:56 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-95	10/23/24 09:56 / jrj
Specific Gravity @ 60/60F	0.999			0.001		D3588-81	10/23/24 09:56 / jrj
Air, %	98.91			0.01		GPA 2261-95	10/23/24 09:56 / jrj
- The analysis was not corrected for air.							
COMMENTS							

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

RL - Analyte Reporting Limit MCL - Maximum Contaminant Level Report

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

⁻ GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

⁻ To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

⁻ Standard conditions: 60 F & 14.73 psi on a dry basis

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work C	Order: B24101807							Repo	rt Date:	: 10/24/24	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R431095
Lab ID:	B24101807-001ADUP	12 Sa	mple Duplic	ate			Run: GCNC	SA-B_241023A		10/23	/24 10:45
Oxygen			21.5	Mol %	0.01				0.9	20	
Nitrogen			78.3	Mol %	0.01				0.3	20	
Carbon D	ioxide		0.23	Mol %	0.01				0.0	20	
Hydrogen	Sulfide		< 0.01	Mol %	0.01					20	
Methane			<0.01	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutane	•		< 0.01	Mol %	0.01					20	
n-Butane			<0.01	Mol %	0.01					20	
Isopentar	ne		<0.01	Mol %	0.01					20	
n-Pentane	е		<0.01	Mol %	0.01					20	
Hexanes	plus		0.03	Mol %	0.01				0.0	20	
Lab ID:	LCS102324	11 Lal	ooratory Co	ntrol Sample			Run: GCNC	SA-B_241023A		10/23	/24 12:24
Oxygen			0.62	Mol %	0.01	124	70	130			
Nitrogen			6.04	Mol %	0.01	101	70	130			
Carbon D	ioxide		0.98	Mol %	0.01	99	70	130			
Methane			74.8	Mol %	0.01	100	70	130			
Ethane			6.00	Mol %	0.01	100	70	130			
Propane			5.05	Mol %	0.01	102	70	130			
Isobutane)		1.68	Mol %	0.01	84	70	130			
n-Butane			1.99	Mol %	0.01	99	70	130			
Isopentar	ne		1.02	Mol %	0.01	102	70	130			
n-Pentane	е		1.00	Mol %	0.01	100	70	130			
Hexanes	plus		0.80	Mol %	0.01	100	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Work Order Receipt Checklist

Hall Environmental B24101807

ogin completed by:	Lyndsi E. LeProwse		Date	Received: 10/22/2024
Reviewed by:	gmccartney		Re	eceived by: LEL
Reviewed Date:	10/23/2024		Car	rrier name: FedEx NDA
Shipping container/cooler in	good condition?	Yes √	No 🗌	Not Present
Custody seals intact on all sl	nipping container(s)/cooler(s)?	Yes √	No 🗌	Not Present
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present ✓
Chain of custody present?		Yes √	No 🗌	
Chain of custody signed whe	en relinquished and received?	Yes 🗸	No 🗌	
Chain of custody agrees with	n sample labels?	Yes 🗸	No 🗌	
Samples in proper container	/bottle?	Yes 🗸	No 🗌	
Sample containers intact?		Yes ✓	No 🗌	
Sufficient sample volume for	indicated test?	Yes 🗸	No 🗌	
All samples received within h Exclude analyses that are c such as pH, DO, Res Cl, Su	onsidered field parameters	Yes 🗸	No 🗌	
Гетр Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank tempe	erature:	16.4°C No Ice		
Containers requiring zero he bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted ✓
Vater - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable ✓

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

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Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
Billings, MT	Florida (Primary NELAP)	E87668
	Idaho	MT00005
d	Louisiana	05079
ANAB	Montana	CERT0044
ANSI Namonal Accimulation Where A C C R E D T E D	Nebraska	NE-OS-13-04
TESTING LABORATORY	Nevada	NV-C24-00250
A ACCOR.	North Dakota	R-007
	National Radon Proficiency	109383-RMP
700	Oregon	4184
AGENTON .	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
1467	Louisiana	05083
Casper, WY	Montana	CERT0002
The Acces	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
Sagarok.	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
	Colorado	MT00945
Helena, MT	Montana	CERT0079
* - ********	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

age 5 of 7 11/7/2024

Eurofins Albuquerque 4901 Hawkins NE Albuquerque, NM 87109 Phone: 505-345-3975 Fax: 505-345-4107		Chain of Custody Record		💸 eurofins Environment Testing
Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Garcia, Michelle	Carrier Tracking No(s): N/A	COC No:
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: michelle.garcia@et.eurofinsus.com		Page:
Company: Energy Laboratories, Inc.		Accreditations Required (See note): NEL AP - Oregon: State - New Mexico	Mavico	raye 0
Address: 1120 South 27th Street,	Due Date Requested: 10/24/2024		Analysis Posmostod	Preservation Codes:
City. Billings State, Zip:	TAT Requested (days): N/A	77300	nate and a second	
MI, 59101 Phone: 0-252-6325(Tel)	PO#:			
Email: N/A	WO# N/A	(0)		
Project Name: Hare 15	Project #; 88501698	10 86		Pranie
Site: N/A	SSOW#: N/A	ay) as		-
Sample Identification - Client ID (1 ah ID)	Sample			o tedmuV (st
		ation Code:		Special Instructions/Note:
Influent 10-16-24 (885-13869-1)	10/16/24 14:20 G	Air		1 See Attached Instructions
				624101867
Vide: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the processing the program of the	vironment Testing South Central, LLC places the owne listed above for analysis/tests/matrix being analyzed,	hership of method, analyte & accreditation compli.	ance upon our subcontract laboratories. This sample ins Environment Testing South Central, LLC laboratori	Shipment is forwarded under chain-of-custody. If the or other instructions will has revoked at Assacrated
Possible Hazard Identification	south Central, LLC attention immediately. If all request	sted accreditations are current to date, return the	signed Chain of Custody attesting to said compliance	to Eurofins Environment Testing South Central, LLC.
Jnconfirmed		Sample Disposal (A)	ee may be	stained longer than 1 month)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions	Special Instructions/QC Requirements:	Archive For Months
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
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constraint of a	Date/Time:	Company Received by:	Date/Time:	Company
Cintrodui Coals latest	Date/Time:	Company Received by	Chan Date Marker	Su With Company
		Coole Temperatur	Temperature(s) °C and Other Remarks.	
				Ver. 10/10/2024

Page 6 of 7 11/7/2024

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ICOC No: 885-2461 Count Container Type
1 Tedlar Bag 1L

Preservative None

Subcontract Method Instructions
Sample IDs Method Method Descripti

MethodMethod DescriptionMethod CommentsSUBCONTRACTSUB (Fixed Gases)/ Fixed GasesFixed Gases

Page 7 of 7 11/7/2024

Received by OCD: 1/10/2025	3:42:15 PM		111111	Page 137 of 252
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HALL ENVIRONI ANALYSIS LABO www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	TS17] [m] (AOV) 095	8 X		clearly
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HALL ANAI www.hz 4901 Hawkins NE Tel. 505-345-3975	9081 Pesticides/8082 PCB's			S:
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Turn-Around Time: XStandard Project Name: Lare	Project Manager: Sampler: DE/A On Ice: XYes # of Coolers: Cooler Temp(including cr); Container Tyme and # Tyme	2-Tedlor		Received by: Received by:
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	l (jou)	17, 1		pe sut
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Client: Hilc		 		~
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11/7/2024

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-13869-1

Login Number: 13869 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

Generated 12/4/2024 4:17:47 PM Revision 1

JOB DESCRIPTION

Hare 15

JOB NUMBER

885-15455-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

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Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975 .

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Client: Hilcorp Energy
Laboratory Job ID: 885-15455-1
Project/Site: Hare 15

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Definitions/Glossary

Job ID: 885-15455-1 Client: Hilcorp Energy Project/Site: Hare 15

Glossarv

LOQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\$	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

Limit of Quantitation (DoD/DOE)

ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Hilcorp Energy Job ID: 885-15455-1 Project: Hare 15

Job ID: 885-15455-1 **Eurofins Albuquerque**

> Job Narrative 885-15455-1

REVISION

The report being provided is a revision of the original report sent on 11/26/2024. The report (revision 1) is being revised due to The GRO dilution has been updated.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 11/16/2024 6:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Gasoline Range Organics

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

GC/MS VOA

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

Client Sample Results

Client: Hilcorp Energy Job ID: 885-15455-1

Project/Site: Hare 15

Client Sample ID: Influent 111524

Date Collected: 11/15/24 09:30 Date Received: 11/16/24 06:20

Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-15455-1

Matrix: Air

Method: SW846 8015M/D - No	nhalogenat	ed Organio	cs using GC/MS	6 -Modified (G	asoline	Range Or	ganics)	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	440		25	ug/L			11/20/24 14:17	5
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 82	Qualifier	Limits 52 - 172			Prepared	Analyzed 11/20/24 14:17	Dil Fac

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND ND	0.50	ug/L			11/20/24 14:17	
1,1,1-Trichloroethane	ND	0.50	ug/L			11/20/24 14:17	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L			11/20/24 14:17	;
1,1,2-Trichloroethane	ND	0.50	ug/L			11/20/24 14:17	
1,1-Dichloroethane	ND	0.50	ug/L			11/20/24 14:17	
1,1-Dichloroethene	ND	0.50	ug/L			11/20/24 14:17	
1,1-Dichloropropene	ND	0.50	ug/L			11/20/24 14:17	
1,2,3-Trichlorobenzene	ND	0.50	ug/L			11/20/24 14:17	
1,2,3-Trichloropropane	ND	1.0	ug/L			11/20/24 14:17	;
1,2,4-Trichlorobenzene	ND	0.50	ug/L			11/20/24 14:17	
1,2,4-Trimethylbenzene	ND	0.50	ug/L			11/20/24 14:17	
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L			11/20/24 14:17	
1,2-Dibromoethane (EDB)	ND	0.50	ug/L			11/20/24 14:17	;
1,2-Dichlorobenzene	ND	0.50	ug/L			11/20/24 14:17	:
1,2-Dichloroethane (EDC)	ND	0.50	ug/L			11/20/24 14:17	
1,2-Dichloropropane	ND	0.50	ug/L			11/20/24 14:17	
1,3,5-Trimethylbenzene	ND	0.50	ug/L			11/20/24 14:17	
1,3-Dichlorobenzene	ND	0.50	ug/L			11/20/24 14:17	
1,3-Dichloropropane	ND	0.50	ug/L			11/20/24 14:17	;
1,4-Dichlorobenzene	ND	0.50	ug/L			11/20/24 14:17	:
1-Methylnaphthalene	ND	2.0	ug/L			11/20/24 14:17	
2,2-Dichloropropane	ND	1.0	ug/L			11/20/24 14:17	
2-Butanone	ND	5.0	ug/L			11/20/24 14:17	;
2-Chlorotoluene	ND	0.50	ug/L			11/20/24 14:17	:
2-Hexanone	ND	5.0	ug/L			11/20/24 14:17	
2-Methylnaphthalene	ND	2.0	ug/L			11/20/24 14:17	;
4-Chlorotoluene	ND	0.50	ug/L			11/20/24 14:17	;
1-Isopropyltoluene	ND	0.50	ug/L			11/20/24 14:17	,
4-Methyl-2-pentanone	ND	5.0	ug/L			11/20/24 14:17	;
Acetone	ND	5.0	ug/L			11/20/24 14:17	:
Benzene	1.3	0.50	ug/L			11/20/24 14:17	;
Bromobenzene	ND	0.50	ug/L			11/20/24 14:17	;
Bromodichloromethane	ND	0.50	ug/L			11/20/24 14:17	
Dibromochloromethane	ND	0.50	ug/L			11/20/24 14:17	
Bromoform	ND	0.50	ug/L			11/20/24 14:17	;
Bromomethane	ND	1.5	ug/L			11/20/24 14:17	
Carbon disulfide	ND	5.0	ug/L			11/20/24 14:17	
Carbon tetrachloride	ND	0.50	ug/L			11/20/24 14:17	:
Chlorobenzene	ND	0.50	ug/L			11/20/24 14:17	;
Chloroethane	ND	1.0	ug/L			11/20/24 14:17	
Chloroform	ND	0.50	ug/L			11/20/24 14:17	

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Job ID: 885-15455-1

Client: Hilcorp Energy Project/Site: Hare 15

Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Influent 111524

Date Collected: 11/15/24 09:30

Date Received: 11/16/24 06:20 Sample Container: Tedlar Bag 1L Lab Sample ID: 885-15455-1

Matrix: Air

c: Air

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11/20/24 14:17

11/20/24 14:17

11/20/24 14:17

Method: SW846 8260B - Vol Analyte	Result Qualifi		Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND -	1.5	ug/L		•	11/20/24 14:17	5
cis-1,2-Dichloroethene	ND	0.50	ug/L			11/20/24 14:17	5
cis-1,3-Dichloropropene	ND	0.50	ug/L			11/20/24 14:17	5
Dibromomethane	ND	0.50	ug/L			11/20/24 14:17	5
Dichlorodifluoromethane	ND	0.50	ug/L			11/20/24 14:17	5
Ethylbenzene	ND	0.50	ug/L			11/20/24 14:17	5
Hexachlorobutadiene	ND	0.50	ug/L			11/20/24 14:17	5
Isopropylbenzene	ND	0.50	ug/L			11/20/24 14:17	5
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/L			11/20/24 14:17	5
Methylene Chloride	ND	1.5	ug/L			11/20/24 14:17	5
n-Butylbenzene	ND	1.5	ug/L			11/20/24 14:17	5
N-Propylbenzene	ND	0.50	ug/L			11/20/24 14:17	5
Naphthalene	ND	1.0	ug/L			11/20/24 14:17	5
sec-Butylbenzene	ND	0.50	ug/L			11/20/24 14:17	5
Styrene	ND	0.50	ug/L			11/20/24 14:17	5
tert-Butylbenzene	ND	0.50	ug/L			11/20/24 14:17	5
Tetrachloroethene (PCE)	ND	0.50	ug/L			11/20/24 14:17	5
Toluene	1.9	0.50	ug/L			11/20/24 14:17	5
trans-1,2-Dichloroethene	ND	0.50	ug/L			11/20/24 14:17	5
trans-1,3-Dichloropropene	ND	0.50	ug/L			11/20/24 14:17	5
Trichloroethene (TCE)	ND	0.50	ug/L			11/20/24 14:17	5
Trichlorofluoromethane	ND	0.50	ug/L			11/20/24 14:17	5
Vinyl chloride	ND	0.50	ug/L			11/20/24 14:17	5
Xylenes, Total	ND	0.75	ug/L			11/20/24 14:17	5
Surrogate	%Recovery Qualif	ier Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88	70 - 130		•	<u>-</u>	11/20/24 14:17	5

70 - 130

70 - 130

70 - 130

113

93

Client Sample ID: Method Blank

Analyzed

11/20/24 13:28

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Influent 111524

Prepared

Prep Type: Total/NA

QC Sample Results

Client: Hilcorp Energy Job ID: 885-15455-1

Project/Site: Hare 15

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-16400/4

Matrix: Air

Surrogate

Analysis Batch: 16400								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			11/20/24 13:28	1
	МВ	MB						

Limits

52 - 172

Lab Sample ID: LCS 885-16400/3

Matrix: Air

Analysis Batch: 16400

4-Bromofluorobenzene (Surr)

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics [C6 -4250 4710 ug/L 111 70 - 130

C10]

LCS LCS %Recovery Qualifier

%Recovery Qualifier

83

Limits Surrogate 4-Bromofluorobenzene (Surr) 52 - 172 90

Lab Sample ID: 885-15455-1 DU

Matrix: Air

Analysis Batch: 16400

DU DU **RPD** Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Gasoline Range Organics [C6 -440 367 18 20 ug/L

Limits

C10]

DU DU Surrogate %Recovery Qualifier

4-Bromofluorobenzene (Surr) 67 52 - 172

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-16277/1005

Matrix: Air

Analysis Batch: 16277

Alialysis Datoli. 10211								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			11/20/24 13:28	1
1,1,1-Trichloroethane	ND		0.10	ug/L			11/20/24 13:28	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			11/20/24 13:28	1
1,1,2-Trichloroethane	ND		0.10	ug/L			11/20/24 13:28	1
1,1-Dichloroethane	ND		0.10	ug/L			11/20/24 13:28	1
1,1-Dichloroethene	ND		0.10	ug/L			11/20/24 13:28	1
1,1-Dichloropropene	ND		0.10	ug/L			11/20/24 13:28	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			11/20/24 13:28	1
1,2,3-Trichloropropane	ND		0.20	ug/L			11/20/24 13:28	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			11/20/24 13:28	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			11/20/24 13:28	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			11/20/24 13:28	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			11/20/24 13:28	1
1,2-Dichlorobenzene	ND		0.10	ug/L			11/20/24 13:28	1

Eurofins Albuquerque

Dil Fac

Client Sample ID: Method Blank

Prep Type: Total/NA

Client: Hilcorp Energy Job ID: 885-15455-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-16277/1005

Matrix: Air

Client Sample ID: Method Blank

Prep Type: Total/NA

D	Prepared	Analyzed	Dil Fac	
_		11/20/24 13:28	1	

Qualifier RL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.40 0.20 1.0 0.10 1.0 0.40 0.10 1.0 0.10 1.0 0.10 1.0 0.10 1.0 0.10 1.0 0.10 1.0 0.10	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	D Prepared	Analyzed 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28	11 11 11 11 11 11 11 11 11 11 11 11 11
0.10 0.10 0.10 0.10 0.10 0.40 0.20 1.0 0.10 1.0 0.40 0.10 1.0 1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28	1
0.10 0.10 0.10 0.40 0.20 1.0 0.10 1.0 0.40 0.10 0.10 1.0 1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28	
0.10 0.10 0.10 0.40 0.20 1.0 0.10 1.0 0.40 0.10 0.10 1.0 1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28	
0.10 0.40 0.20 1.0 0.10 1.0 0.40 0.10 1.0 1.0 1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28	
0.10 0.40 0.20 1.0 0.10 1.0 0.40 0.10 1.0 1.0 1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28	
0.40 0.20 1.0 0.10 1.0 0.40 0.10 0.10 1.0 1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28	1
0.20 1.0 0.10 1.0 0.40 0.10 0.10 1.0 1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28	1
1.0 0.10 1.0 0.40 0.10 0.10 1.0 1.0	ug/L ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28 11/20/24 13:28 11/20/24 13:28	1 1
0.10 1.0 0.40 0.10 0.10 1.0 1.0	ug/L ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28 11/20/24 13:28	1
1.0 0.40 0.10 0.10 1.0 1.0	ug/L ug/L ug/L ug/L ug/L		11/20/24 13:28 11/20/24 13:28	1
0.40 0.10 0.10 1.0 1.0 0.10	ug/L ug/L ug/L ug/L		11/20/24 13:28	
0.10 0.10 1.0 1.0 0.10	ug/L ug/L ug/L			,
0.10 1.0 1.0 0.10	ug/L ug/L		11/00/04 10:00	
1.0 1.0 0.10	ug/L		11/20/24 13:28	1
1.0 0.10			11/20/24 13:28	1
0.10			11/20/24 13:28	1
	ug/L		11/20/24 13:28	1
0.40	ug/L		11/20/24 13:28	1
U. IU	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	
0.30	ug/L		11/20/24 13:28	1
1.0	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	1
0.20	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	
0.30	ug/L		11/20/24 13:28	
0.10	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	
0.10	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	
0.30	ug/L		11/20/24 13:28	1
0.30	ug/L		11/20/24 13:28	1
0.10	ug/L		11/20/24 13:28	1
				1
				-
				,
0.10				,
0.10				
0.10 0.10				1
		0.10 ug/L	0.10 ug/L	0.10 ug/L 11/20/24 13:28 0.10 ug/L 11/20/24 13:28

Client: Hilcorp Energy Job ID: 885-15455-1
Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-16277/1005 Matrix: Air

Analysis Batch: 16277

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Vinyl chloride ND 0.10 ug/L 11/20/24 13:28 Xylenes, Total ND 0.15 ug/L 11/20/24 13:28

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1,2-Dichloroethane-d4 (Surr) 99 70 - 130 11/20/24 13:28 Toluene-d8 (Surr) 115 70 - 130 11/20/24 13:28 4-Bromofluorobenzene (Surr) 94 70 - 130 11/20/24 13:28 Dibromofluoromethane (Surr) 101 70 - 130 11/20/24 13:28

Lab Sample ID: MB 885-16277/5

Matrix: Air

Analysis Batch: 16277

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Qualifier Dil Fac **Analyte** Result RL Unit D Prepared Analyzed $\overline{\mathsf{ND}}$ 1.0 11/20/24 13:28 1,1,1,2-Tetrachloroethane ug/L 1,1,1-Trichloroethane ND 1.0 ug/L 11/20/24 13:28 11/20/24 13:28 1,1,2,2-Tetrachloroethane ND 2.0 ug/L 1.1.2-Trichloroethane ND ug/L 11/20/24 13:28 1.0 1,1-Dichloroethane ND 1.0 ug/L 11/20/24 13:28 ND 1.0 ug/L 11/20/24 13:28 1.1-Dichloroethene ND 1.0 11/20/24 13:28 1,1-Dichloropropene ug/L ND 1,2,3-Trichlorobenzene 1.0 ug/L 11/20/24 13:28 1,2,3-Trichloropropane ND 2.0 ug/L 11/20/24 13:28 ND 11/20/24 13:28 1,2,4-Trichlorobenzene 1.0 ug/L 1,2,4-Trimethylbenzene ND 1.0 ug/L 11/20/24 13:28 1,2-Dibromo-3-Chloropropane ND 2.0 ug/L 11/20/24 13:28 ND 1,2-Dibromoethane (EDB) 1.0 ug/L 11/20/24 13:28 1,2-Dichlorobenzene ND 1.0 ug/L 11/20/24 13:28 ND 1,2-Dichloroethane (EDC) 1.0 ug/L 11/20/24 13:28 1,2-Dichloropropane ND 1.0 ug/L 11/20/24 13:28 ND ug/L 11/20/24 13:28 1,3,5-Trimethylbenzene 1.0 ND ug/L 11/20/24 13:28 1,3-Dichlorobenzene 1.0 ND 1,3-Dichloropropane 10 ug/L 11/20/24 13:28 1,4-Dichlorobenzene ND 1.0 ug/L 11/20/24 13:28 ug/L ND 11/20/24 13:28 1-Methylnaphthalene 40 2,2-Dichloropropane ND 2.0 ug/L 11/20/24 13:28 2-Butanone ND 10 ug/L 11/20/24 13:28 ND ug/L 2-Chlorotoluene 1.0 11/20/24 13:28 2-Hexanone ND 10 ug/L 11/20/24 13:28 2-Methylnaphthalene ND 4.0 ug/L 11/20/24 13:28 4-Chlorotoluene ND 1.0 ug/L 11/20/24 13:28 ND 4-Isopropyltoluene 1.0 ug/L 11/20/24 13:28 4-Methyl-2-pentanone ND 10 ug/L 11/20/24 13:28 10 Acetone ND ug/L 11/20/24 13:28 Benzene ND 1.0 ug/L 11/20/24 13:28 Bromobenzene ND 1.0 ug/L 11/20/24 13:28 Bromodichloromethane ND 1.0 ug/L 11/20/24 13:28 Dibromochloromethane ND 1.0 ug/L 11/20/24 13:28

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Client: Hilcorp Energy Job ID: 885-15455-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-16277/5

Matrix: Air

Analysis Batch: 16277

Client Sample ID: Method Blank

Prep Type: Total/NA

•	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	ug/L			11/20/24 13:28	1
Bromomethane	ND		3.0	ug/L			11/20/24 13:28	1
Carbon disulfide	ND		10	ug/L			11/20/24 13:28	1
Carbon tetrachloride	ND		1.0	ug/L			11/20/24 13:28	1
Chlorobenzene	ND		1.0	ug/L			11/20/24 13:28	1
Chloroethane	ND		2.0	ug/L			11/20/24 13:28	1
Chloroform	ND		1.0	ug/L			11/20/24 13:28	1
Chloromethane	ND		3.0	ug/L			11/20/24 13:28	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			11/20/24 13:28	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			11/20/24 13:28	1
Dibromomethane	ND		1.0	ug/L			11/20/24 13:28	1
Dichlorodifluoromethane	ND		1.0	ug/L			11/20/24 13:28	1
Ethylbenzene	ND		1.0	ug/L			11/20/24 13:28	1
Hexachlorobutadiene	ND		1.0	ug/L			11/20/24 13:28	1
Isopropylbenzene	ND		1.0	ug/L			11/20/24 13:28	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			11/20/24 13:28	1
Methylene Chloride	ND		3.0	ug/L			11/20/24 13:28	1
n-Butylbenzene	ND		3.0	ug/L			11/20/24 13:28	1
N-Propylbenzene	ND		1.0	ug/L			11/20/24 13:28	1
Naphthalene	ND		2.0	ug/L			11/20/24 13:28	1
sec-Butylbenzene	ND		1.0	ug/L			11/20/24 13:28	1
Styrene	ND		1.0	ug/L			11/20/24 13:28	1
tert-Butylbenzene	ND		1.0	ug/L			11/20/24 13:28	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			11/20/24 13:28	1
Toluene	ND		1.0	ug/L			11/20/24 13:28	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			11/20/24 13:28	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			11/20/24 13:28	1
Trichloroethene (TCE)	ND		1.0	ug/L			11/20/24 13:28	1
Trichlorofluoromethane	ND		1.0	ug/L			11/20/24 13:28	1
Vinyl chloride	ND		1.0	ug/L			11/20/24 13:28	1
Xylenes, Total	ND		1.5	ug/L			11/20/24 13:28	1
	МВ	МВ						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		11/20/24 13:28	1
Toluene-d8 (Surr)	115		70 - 130		11/20/24 13:28	1
4-Bromofluorobenzene (Surr)	94		70 - 130		11/20/24 13:28	1
Dibromofluoromethane (Surr)	101		70 - 130		11/20/24 13:28	1

Lab Sample ID: LCS 885-16277/4

Matrix: Air

1,1-Dichloroethene

Trichloroethene (TCE)

Analyte

Benzene Chlorobenzene Toluene

Analysis Batch: 16277

Client Sample II	D: Lab Control Sample
	Prep Type: Total/NA

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
20.1	18.7		ug/L		93	70 - 130	
20.1	19.7		ug/L		98	70 - 130	
20.1	20.0		ug/L		100	70 - 130	
20.2	19.6		ug/L		97	70 - 130	
20.2	18.3		ug/L		91	70 - 130	

Client: Hilcorp Energy

Job ID: 885-15455-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 885-16277/4

Matrix: Air

Analysis Batch: 16277

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	82		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130

Client Sample ID: Influent 111524

Prep Type: Total/NA

p Type: Total/NA

Matrix: Air Analysis Batch: 16277

Lab Sample ID: 885-15455-1 DU

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Analysis Batch: 16277	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
1,1,1,2-Tetrachloroethane	ND		ND		ug/L		NC	20
1,1,1-Trichloroethane	ND		ND		ug/L		NC	20
1,1,2,2-Tetrachloroethane	ND		ND		ug/L		NC	20
1,1,2-Trichloroethane	ND		ND		ug/L		NC	20
1,1-Dichloroethane	ND		ND		ug/L		NC	20
1,1-Dichloroethene	ND		ND		ug/L		NC	20
1,1-Dichloropropene	ND		ND		ug/L		NC	20
1,2,3-Trichlorobenzene	ND		ND		ug/L		NC	20
1,2,3-Trichloropropane	ND		ND		ug/L		NC	20
1,2,4-Trichlorobenzene	ND		ND		ug/L		NC	20
1,2,4-Trimethylbenzene	ND		ND		ug/L		NC	20
1,2-Dibromo-3-Chloropropane	ND		ND		ug/L		NC	20
1,2-Dibromoethane (EDB)	ND		ND		ug/L		NC	20
1,2-Dichlorobenzene	ND		ND		ug/L		NC	20
1,2-Dichloroethane (EDC)	ND		ND		ug/L		NC	20
1,2-Dichloropropane	ND		ND		ug/L		NC	20
1,3,5-Trimethylbenzene	ND		ND		ug/L		NC	20
1,3-Dichlorobenzene	ND		ND		ug/L		NC	20
1,3-Dichloropropane	ND		ND		ug/L		NC	20
1,4-Dichlorobenzene	ND		ND		ug/L		NC	20
1-Methylnaphthalene	ND		ND		ug/L		NC	20
2,2-Dichloropropane	ND		ND		ug/L		NC	20
2-Butanone	ND		ND		ug/L		NC	20
2-Chlorotoluene	ND		ND		ug/L		NC	20
2-Hexanone	ND		ND		ug/L		NC	20
2-Methylnaphthalene	ND		ND		ug/L		NC	20
4-Chlorotoluene	ND		ND		ug/L		NC	20
4-Isopropyltoluene	ND		ND		ug/L		NC	20
4-Methyl-2-pentanone	ND		ND		ug/L		NC	20
Acetone	ND		ND		ug/L		NC	20
Benzene	1.3		1.27		ug/L		0	20
Bromobenzene	ND		ND		ug/L		NC	20
Bromodichloromethane	ND		ND		ug/L		NC	20
Dibromochloromethane	ND		ND		ug/L		NC	20
Bromoform	ND		ND		ug/L		NC	20
Bromomethane	ND		ND		ug/L		NC	20
Carbon disulfide	ND		ND		ug/L		NC	20
Carbon tetrachloride	ND		ND		ug/L		NC	20

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Client: Hilcorp Energy Job ID: 885-15455-1 Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Sample Sample

ND

ND

ND

ND

Lab Sample ID: 885-15455-1 DU

Matrix: Air

Methylene Chloride

n-Butylbenzene

Naphthalene

Xylenes, Total

N-Propylbenzene

Analysis Batch: 16277

Client Sample ID: Influent 111524

Prep Type: Total/NA

	RPD	5
RPD	Limit	

20

20

20

20

20

NC

Analyte	Result Qualifier	Result Qualifier	Unit	D	RPD	Limit
Chlorobenzene	ND —	ND ND	ug/L		NC	20
Chloroethane	ND	ND	ug/L		NC	20
Chloroform	ND	ND	ug/L		NC	20
Chloromethane	ND	ND	ug/L		NC	20
cis-1,2-Dichloroethene	ND	ND	ug/L		NC	20
cis-1,3-Dichloropropene	ND	ND	ug/L		NC	20
Dibromomethane	ND	ND	ug/L		NC	20
Dichlorodifluoromethane	ND	ND	ug/L		NC	20
Ethylbenzene	ND	ND	ug/L		NC	20
Hexachlorobutadiene	ND	ND	ug/L		NC	20
Isopropylbenzene	ND	ND	ug/L		NC	20
Methyl-tert-butyl Ether (MTBE)	ND	ND	ug/L		NC	20

DU DU

ND ug/L NC ND ug/L NC ND ug/L NC ND ug/L NC ND ug/L NC

sec-Butylbenzene ND ND ug/L NC 20 ND Styrene ND ug/L NC 20 ND ND ug/L NC tert-Butylbenzene 20 ND NC Tetrachloroethene (PCE) ND ug/L 20 Toluene 1.9 1.73 ug/L 7 20 trans-1.2-Dichloroethene ND ND ug/L NC 20 trans-1,3-Dichloropropene ND ND NC ug/L 20 Trichloroethene (TCE) ND ND ug/L NC 20 20 Trichlorofluoromethane ND ND ug/L NC Vinyl chloride ND ND ug/L NC 20

ND

ug/L

DU DU

ND

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Toluene-d8 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	76		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130

QC Association Summary

Client: Hilcorp Energy

Job ID: 885-15455-1

Project/Site: Hare 15

GC/MS VOA

Analysis Batch: 16277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15455-1	Influent 111524	Total/NA	Air	8260B	
MB 885-16277/1005	Method Blank	Total/NA	Air	8260B	
MB 885-16277/5	Method Blank	Total/NA	Air	8260B	
LCS 885-16277/4	Lab Control Sample	Total/NA	Air	8260B	
885-15455-1 DU	Influent 111524	Total/NA	Air	8260B	

Analysis Batch: 16400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15455-1	Influent 111524	Total/NA	Air	8015M/D	
MB 885-16400/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-16400/3	Lab Control Sample	Total/NA	Air	8015M/D	
885-15455-1 DU	Influent 111524	Total/NA	Air	8015M/D	

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11/20/24 14:17

EET ALB

Lab Chronicle

Client: Hilcorp Energy Job ID: 885-15455-1

Project/Site: Hare 15

Client Sample ID: Influent 111524 Lab Sample ID: 885-15455-1

Date Collected: 11/15/24 09:30 Matrix: Air Date Received: 11/16/24 06:20

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16277 CM

Batch Batch Dilution Batch Prepared Method **Prep Type** Туре **Factor** Number Analyst or Analyzed Run Lab 11/20/24 14:17 Total/NA Analysis 8015M/D 5 16400 CM EET ALB

Laboratory References:

Total/NA

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

Analysis

8260B

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-15455-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane

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Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-15455-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

for which the agency de	are included in this repo oes not offer certification	•	not certified by the governing authority. This list may include analy	
0 ,	oes not offer certification		st. st governing additionty. This not may include driving	
Analysis Method	Prep Method	Matrix	Analyte	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air	Ethylbenzene	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (MTBE)	
8260B		Air	Naphthalene	
8260B		Air	n-Butylbenzene	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)	
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethene	
8260B		Air	trans-1,3-Dichloropropene	
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	
egon	NELAI	Þ	NM100001 02-26-25	

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-15455-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progr	am	Identification Number Expiration Date			
	s are included in this repo does not offer certification	t, but the laboratory is not certified by the governing authority. This list may include				
Analysis Method	Prep Method	Matrix	Analyte			
8260B		Air	1-Methylnaphthalene			
8260B		Air	2,2-Dichloropropane			
8260B		Air	2-Butanone			
8260B		Air	2-Chlorotoluene			
8260B		Air	2-Hexanone			
8260B		Air	2-Methylnaphthalene			
8260B		Air	4-Chlorotoluene			
8260B		Air	4-Isopropyltoluene			
8260B		Air	4-Methyl-2-pentanone			
8260B		Air	Acetone			
8260B		Air	Benzene			
8260B		Air	Bromobenzene			
8260B		Air	Bromodichloromethane			
8260B		Air	Bromoform			
8260B		Air	Bromomethane			
8260B		Air	Carbon disulfide			
8260B		Air	Carbon tetrachloride			
8260B		Air	Chlorobenzene			
8260B		Air	Chloroethane			
8260B		Air	Chloroform			
8260B		Air	Chloromethane			
8260B		Air	cis-1,2-Dichloroethene			
8260B		Air	cis-1,3-Dichloropropene			
8260B		Air	Dibromochloromethane			
8260B		Air	Dibromomethane			
8260B		Air	Dichlorodifluoromethane			
8260B		Air	Ethylbenzene			
8260B		Air	Hexachlorobutadiene			
8260B		Air	Isopropylbenzene			
8260B		Air	Methylene Chloride			
8260B		Air	Methyl-tert-butyl Ether (MTBE)			
8260B		Air	Naphthalene			
8260B		Air	n-Butylbenzene			
8260B		Air	N-Propylbenzene			
8260B		Air	sec-Butylbenzene			
8260B		Air	Styrene			
8260B		Air	tert-Butylbenzene			
8260B		Air	Tetrachloroethene (PCE)			
8260B		Air	Toluene			
8260B		Air	trans-1,2-Dichloroethene			
8260B		Air	trans-1,3-Dichloropropene			
8260B		Air	Trichloroethene (TCE)			
8260B		Air	Trichlorofluoromethane			
UZUUD		Air Air	Vinyl chloride			
8260B						

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

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ANALYTICAL SUMMARY REPORT

November 25, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B24111343 Quote ID: B15626

Project Name: Hare 15 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 11/19/2024 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matri x	Test
B24111343-001	Influent 111524 (885- 15455-1)	11/15/24 9:30	11/19/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., mois Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

Billings, MT 406.252.6325 . Casper, WY 307.235.0515 Gillette, WY 307.686.7175 . Helena, MT 406.442.0711

Report Date: 11/25/24

Matrix: Air

GPA 2261-13 11/20/24 11:45 / jrj

11/20/24 11:45 / jrj

Collection Date: 11/15/24 09:30 DateReceived: 11/19/24

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: Hare 15 88501698 Lab ID: B24111343-001

Client Sample ID: Influent 111524 (885-15455-1)

MCL/ QCL RL Method **Analyses** Result Units Qualifiers Analysis Date / By GAS CHROMATOGRAPHY ANALYSIS REPORT Oxygen 19.33 Mol % 0.01GPA 2261-13 11/20/24 11:45 / jrj Nitrogen 80.47 Mol % 0.01 GPA 2261-13 11/20/24 11:45 / jrj Carbon Dioxide 0.19 Mol % 0.01 GPA 2261-13 11/20/24 11:45 / jrj Hydrogen Sulfide <0.01 Mol % 0.01 GPA 2261-13 11/20/24 11:45 / jrj GPA 2261-13 Methane <0.01 Mol % 0.01 11/20/24 11:45 / jrj Ethane <0.01 Mol % 0.01 GPA 2261-13 11/20/24 11:45 / jrj Propane <0.01 Mol % 0.01GPA 2261-13 11/20/24 11:45 / jrj Isobutane < 0.01 Mol % 0.01 GPA 2261-13 11/20/24 11:45 / jrj n-Butane <0.01 Mol % 0.01 GPA 2261-13 11/20/24 11:45 / jrj Isopentane <0.01 Mol % 0.01 GPA 2261-13 11/20/24 11:45 / jrj <0.01 Mol % 0.01 11/20/24 11:45 / jrj n-Pentane GPA 2261-13 Hexanes plus 0.01 Mol % 0.01 GPA 2261-13 11/20/24 11:45 / jrj 0.001 Propane < 0.001 gpm GPA 2261-13 11/20/24 11:45 / jrj Isobutane < 0.001 gpm 0.001 GPA 2261-13 11/20/24 11:45 / jrj n-Butane < 0.001 gpm 0.001 GPA 2261-13 11/20/24 11:45 / jrj Isopentane < 0.001 gpm 0.001 GPA 2261-13 11/20/24 11:45 / jrj < 0.001 gpm n-Pentane 0.001 GPA 2261-13 11/20/24 11:45 / jrj Hexanes plus 0.004 gpm 0.001 GPA 2261-13 11/20/24 11:45 / jrj

0.001

GPM Pentanes plus	0.004 gpm	0.001	GPA 2261-13	11/20/24 11:45 / jrj
CALCULATED PROPERTIES				
Gross BTU per cu ft @ Std Cond. (HHV)	ND	1	GPA 2261-13	11/20/24 11:45 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND	1	GPA 2261-13	11/20/24 11:45 / jrj
Pseudo-critical Pressure, psia	540	1	GPA 2261-13	11/20/24 11:45 / jrj
Pseudo-critical Temperature, deg R	238	1	GPA 2261-13	11/20/24 11:45 / jrj
Specific Gravity @ 60/60F	0.995	0.001	D3588-81	11/20/24 11:45 / jrj
Air, %	88.33	0.01	GPA 2261-13	11/20/24 11:45 / jrj

0.004 gpm

GPM Total

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis

Report RL - Analyte Reporting Limit **Definitions:** QCL - Quality Control Limit

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

The analysis was not corrected for air.

Report Date: 11/25/24

1

ENERGY E

Work Order: B24111343

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QA/QC Summary Report

Prepared by Billings, MT Branch

Analyte		Count	Result	Units	RL	%REC L	ow Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-13									Batch:	R432776
Lab ID:	B24111344-001ADUP	12 Saı	mple Duplic	ate		F	Run: GCNG	A-B_241120A		11/20/	24 10:56
Oxygen			19.1	Mol %	0.01				0.1	20	
Nitrogen			80.4	Mol %	0.01				0	20	
Carbon Di	ioxide		0.54	Mol %	0.01				0.0	20	
Hydrogen	Sulfide		<0.01	Mol %	0.01					20	
Methane			<0.01	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutane			<0.01	Mol %	0.01					20	
n-Butane			<0.01	Mol %	0.01					20	
Isopentan	е		<0.01	Mol %	0.01					20	
n-Pentane	•		<0.01	Mol %	0.01					20	
Hexanes p	olus		0.01	Mol %	0.01				0.0	20	
Lab ID:	LCS112024	11 Lab	ooratory Co	ntrol Sample		F	Run: GCNG	A-B_241120A		11/20/	24 01:30
Oxygen			0.63	Mol %	0.01	126	70	130			
Nitrogen			6.29	Mol %	0.01	105	70	130			
Carbon Di	ioxide		0.98	Mol %	0.01	99	70	130			
Methane			74.4	Mol %	0.01	100	70	130			
Ethane			6.02	Mol %	0.01	100	70	130			
Propane			5.04	Mol %	0.01	102	70	130			

0.01

0.01

0.01

0.01

0.01

86

99

109

100

100

70

70

70

70

70

130

130

130

130

130

Mol %

Mol %

Mol %

Mol %

Mol %

1.72

1.99

1.09

1.00

0.80

Qualifiers:

Isobutane

n-Butane

Isopentane

n-Pentane

Hexanes plus

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Gillette, WY 307.686.7175 . Helena, MT 406.442.0711

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Work Order Receipt Checklist

Hall Environmental

B24111343

Login completed by: Danielle N. Harris	Date Received: 11/19/2024						
Reviewed by: Ileprowse	Received by: SAY						
Reviewed Date: 11/20/2024		Car	rier name: FedEx NDA				
Shipping container/cooler in good condition?	Yes ✓	No 🗌	Not Present				
Custody seals intact on all shipping container(s)/cooler(s)?	Yes 🗸	No 🗌	Not Present				
Custody seals intact on all sample bottles?	Yes	No 🗌	Not Present 🗹				
Chain of custody present?	Yes 🗸	No 🗌					
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌					
Chain of custody agrees with sample labels?	Yes 🔽	No 🗌					
Samples in proper container/bottle?	Yes 🗹	No 🗌					
Sample containers intact?	Yes 🔽	No 🗌					
Sufficient sample volume for indicated test?	Yes 🔽	No 🗌					
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ✓	No 🗌					
Temp Blank received in all shipping container(s)/cooler(s)?	Yes	No 🗸	Not Applicable				
Container/Temp Blank temperature:	10.4°C No Ice						
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes	No 🗌	No VOA vials submitted				
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable ✓				

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Agency

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Number

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- 0

	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
Billings, MT	Florida (Primary NELAP)	E87668
	Idaho	MT00005
d	Louisiana	05079
ANAB	Montana	CERT0044
ARSI National Accidentation Wave	Nebraska	NE-OS-13-04
TESTING LABORATORY	Nevada	NV-C24-00250
ACCES.	North Dakota	R-007
	National Radon Proficiency	109383-RMP
700	Oregon	4184
DORATOR	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
Casper, WY	Montana	CERT0002
ACCREDIT	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
Secret Secret	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
	Colorado	MT00945
Helena, MT	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

Eurofins Albuquerque

4901 Hawkins NE

Albuquerque, NM 87109 Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record

30	P 220	
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	710	

eurofins

Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A			Lab Gar	rм: cia, Mi	ichell	le				N/	rrier Traci A	king No(s	3):		COC No: 885-2844.1	
Client Contact: Shipping/Receiving	Phone: N/A	Phone: E-Mail: N/A miche				t: State of Orig elle.garcia@et.eurofinsus.com New Mexic					Origin: Page:						
ompany. Energy Laboratories, Inc.					Accred	ditatio	ns Requ	ired (Se	e note)):		W WICK				lob #:	
ddress:	Due Date Request	ted:			NELA	AP -	Oregor	n; State	e - Ne	w Mexi	co					385-15455-1	
120 South 27th Street,	11/25/2024								Anal	ysis I	Reque	sted			F.	Preservation	Codes:
city: Billings	TAT Requested (d	iays): N/A				1											
tate, Zip:		IN/	`			TREE.											
MT, 59101																	
hone: 06-252-6325(Tel)	PO #: N/A					W											
mail:	WO #:		_		or No									1 1			
I/A	N/A				S S	ses									2		
roject Name: lare 15	Project #: 88501698				Sample (Yes or SD (Yes or No)	S P									ine		
ite:	SSOW#:			_	3 12	, K									T T	other:	
I/A	N/A				San	Gases)/ Fixed Gases					N.				100	/mer: I/A	
			Sample	Matrix	Pare WSW	Gas									per		
		January Co.	Туре	(W=water, S=solid,	E	SUB (Fixed				1 1					Mm		
ample Identification - Client ID (Lab ID)	Sample Date	Sample	(C=comp,	O≕waste/oil,	Field Fill	B									Total		
Ample Identification - Green ID (Lab ID)	Sample Date	Time		BT=Tissue, A=Air)	T 0	N.									E)	Special	Instructions/Note
fluent 111524 (885-15455-1)	44/45/04	09:30		Control of the Contro	M										Y.	ee Attached I	
11024 (666 15466-1)	11/15/24	Mountain	G	Air	Ш	X									1 3	ee Attached I	istructions
																B24111	3153
				1												00000	04)
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te: Since laboratory accreditations are subject to change. Eurofice Ed	offeen and Tables Coult Coul	-110		050374		_		_	-								
ote: Since laboratory accreditations are subject to change, Eurofins En boratory does not currently maintain accreditation in the State of Origin ccreditation status should be brought to Eurofins Environment Testing is	listed above for analysis/tests	s/matrix being	s the ownersh analyzed, the	samples must b	e shippe	accred ed bac	ditation o	compliar Eurofins	nce upo s Enviro	on our sui	bcontract esting Sc	laborator	ries. This	sample st	hipment is	s forwarded un	der chain-of-custody. If
and the state of t	South Central, LLC attention in	mmediately. If	all requested	accreditations a	re currer	nt to a	late, retu	im the s	signed (chain of the	Sustody a	attesting t	o said co	mpliance to	o Eurofin	s Environment	Testing South Central,
ossible Hazard Identification					Sai	mple	Dispo	osal (A fee	may be	asses	sed if s	ample	s are ret	ained I	longer than	1 month)
nconfirmed					L	-R	Return	To Clie	ent	_	Dispos	sal By L			rchive !		Months
eliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	ble Rank: 2			Spe	ecial	Instruc	ctions/0	QC Re	equiren	nents:						
mpty Kit Relinquished by:		Date:			Time:							Method	of Shipme	ent:			
elinquished by:	Date/Time: 6 2		00	Company	347.232	Rece	eived by:						Date/				Camaanii
Nonciabad bu	11118/2	9 15.	37			1								, , , , , , , , , , , , , , , , , , , ,			Company
linquished by:	Date/Time:			Company		Rece	eived by:						Date/	Time:			Company
						-	1										
elinquished by:	Date/Time:			Company		Rece	ved-by)					Date				0
linquished by: Custody Seals Intact: Custody Seal No.:	Date/Time:			Company		Rece	ved by	V	- 5	ione.	Ken	,	Date/	Fime:	1	1020	Company ELI-B







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ICOC No: 885-2844 Containers
Count
Count
Tedlar Bag 1L

 Subcontract Method Instructions

 Sample IDs
 Method
 Method Description

 1
 SUBCONTRACT
 SUB (Fixed Gases)

Method Comments Fixed Gases

Preservative None

Page 25 of 27

Login Sample Receipt Checklist

Job Number: 885-15455-1 Client: Hilcorp Energy

List Source: Eurofins Albuquerque Login Number: 15455

List Number: 1

Creator: Proctor, Nancy

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

Generated 12/13/2024 1:45:40 PM

JOB DESCRIPTION

Influent 112724

JOB NUMBER

885-16142-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

Generated 12/13/2024 1:45:40 PM

Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975

Page 2 of 31 12/13/2024

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4.0

Client: Hilcorp Energy

Laboratory Job ID: 885-16142-1

Project/Site: Influent 112724

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QC Sample Results	10
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Receipt Checklists	31

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Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-16142-1

Project/Site: Influent 112724

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Hilcorp Energy Job ID: 885-16142-1 Project: Influent 112724

Job ID: 885-16142-1 Eurofins Albuquerque

Job Narrative 885-16142-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 12/3/2024 6:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Gasoline Range Organics

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

GC/MS VOA

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

Eurofins Albuquerque

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Client: Hilcorp Energy

Project/Site: Influent 112724

Job ID: 885-16142-1

Client Sample ID: #31 Influent 112724

Date Collected: 11/27/24 12:25

Date Received: 12/03/24 06:35 Sample Container: Tedlar Bag 1L Lab Sample ID: 885-16142-1

Matrix: Air

Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics) Result Qualifier Unit Analyte RL

ND

ND

ND

Dil Fac Prepared Analyzed 250 **Gasoline Range Organics** 1100 ug/L 12/04/24 17:20 50

(GRO)-C6-C10

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

1,2-Dibromoethane (EDB)

1,2-Dichloroethane (EDC)

1,2-Dichlorobenzene

1,2-Dichloropropane

1,3,5-Trimethylbenzene

1,2-Dibromo-3-Chloropropane

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 91 52 - 172

12/04/24 17:20 50

12/04/24 17:20

12/04/24 17:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result Qu	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND ND	5.0	ug/L			12/04/24 17:20	50
1,1,1-Trichloroethane	ND	5.0	ug/L			12/04/24 17:20	50
1,1,2,2-Tetrachloroethane	ND	10	ug/L			12/04/24 17:20	50
1,1,2-Trichloroethane	ND	5.0	ug/L			12/04/24 17:20	50
1,1-Dichloroethane	ND	5.0	ug/L			12/04/24 17:20	50
1,1-Dichloroethene	ND	5.0	ug/L			12/04/24 17:20	50
1,1-Dichloropropene	ND	5.0	ug/L			12/04/24 17:20	50
1,2,3-Trichlorobenzene	ND	5.0	ug/L			12/04/24 17:20	50
1,2,3-Trichloropropane	ND	10	ug/L			12/04/24 17:20	50

5.0

ND 5.0 ug/L 12/04/24 17:20 ND 10 ug/L 12/04/24 17:20 ND 5.0 ug/L 12/04/24 17:20 ND 5.0 12/04/24 17:20 ug/L ND 5.0 ug/L 12/04/24 17:20 ND 12/04/24 17:20 5.0 ug/L

ug/L

ug/L

1,3-Dichlorobenzene ND 5.0 ug/L 12/04/24 17:20 ND 5.0 ug/L 12/04/24 17:20 1,3-Dichloropropane 1,4-Dichlorobenzene ND 5.0 ug/L 12/04/24 17:20 ug/L 1-Methylnaphthalene ND 20 12/04/24 17:20 2,2-Dichloropropane ND 10 ug/L 12/04/24 17:20

5.0

2-Butanone ND 50 ug/L 12/04/24 17:20 2-Chlorotoluene ND 5.0 ug/L 12/04/24 17:20 2-Hexanone ND 50 ug/L 12/04/24 17:20 2-Methylnaphthalene ND 20 ug/L 12/04/24 17:20 ND 5.0 4-Chlorotoluene ug/L 12/04/24 17:20

ug/L 5.0 12/04/24 17:20 4-Isopropyltoluene 4-Methyl-2-pentanone ND 50 ug/L 12/04/24 17:20 Acetone ND 50 ug/L 12/04/24 17:20 Benzene 6.6 2.5 ug/L 12/04/24 17:20 Bromobenzene ND 5.0 ug/L 12/04/24 17:20

Bromodichloromethane ND 5.0 ug/L 12/04/24 17:20 ug/L Dibromochloromethane ND 5.0 12/04/24 17:20 Bromoform ND 5.0 ug/L 12/04/24 17:20 Bromomethane ND 15 ug/L 12/04/24 17:20 Carbon disulfide ND 50 ug/L 12/04/24 17:20

Carbon tetrachloride ND 5.0 ug/L 12/04/24 17:20 ND ug/L Chlorobenzene 5.0 12/04/24 17:20 Chloroethane ND 10 ug/L 12/04/24 17:20 ND 5.0 12/04/24 17:20 Chloroform ug/L

Eurofins Albuquerque

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Client Sample Results

Client: Hilcorp Energy Job ID: 885-16142-1

Project/Site: Influent 112724

Client Sample ID: #31 Influent 112724

Date Collected: 11/27/24 12:25 Date Received: 12/03/24 06:35

Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-16142-1

Matrix: Air

5

Method: SW846 8260B - Volatil Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		15	ug/L		.,	12/04/24 17:20	50
cis-1,2-Dichloroethene	ND		5.0	ug/L			12/04/24 17:20	50
cis-1,3-Dichloropropene	ND		5.0	ug/L			12/04/24 17:20	50
Dibromomethane	ND		5.0	ug/L			12/04/24 17:20	50
Dichlorodifluoromethane	ND		5.0	ug/L			12/04/24 17:20	50
Ethylbenzene	ND		5.0	ug/L			12/04/24 17:20	50
Hexachlorobutadiene	ND		5.0	ug/L			12/04/24 17:20	50
Isopropylbenzene	ND		5.0	ug/L			12/04/24 17:20	50
Methyl-tert-butyl Ether (MTBE)	ND		5.0	ug/L			12/04/24 17:20	50
Methylene Chloride	ND		15	ug/L			12/04/24 17:20	50
n-Butylbenzene	ND		15	ug/L			12/04/24 17:20	50
N-Propylbenzene	ND		5.0	ug/L			12/04/24 17:20	50
Naphthalene	ND		10	ug/L			12/04/24 17:20	50
sec-Butylbenzene	ND		5.0	ug/L			12/04/24 17:20	50
Styrene	ND		5.0	ug/L			12/04/24 17:20	50
tert-Butylbenzene	ND		5.0	ug/L			12/04/24 17:20	50
Tetrachloroethene (PCE)	ND		5.0	ug/L			12/04/24 17:20	50
Toluene	13		5.0	ug/L			12/04/24 17:20	50
trans-1,2-Dichloroethene	ND		5.0	ug/L			12/04/24 17:20	50
trans-1,3-Dichloropropene	ND		5.0	ug/L			12/04/24 17:20	50
Trichloroethene (TCE)	ND		5.0	ug/L			12/04/24 17:20	50
Trichlorofluoromethane	ND		5.0	ug/L			12/04/24 17:20	50
Vinyl chloride	ND		5.0	ug/L			12/04/24 17:20	50
Xylenes, Total	ND		7.5	ug/L			12/04/24 17:20	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		-		12/04/24 17:20	50
Toluene-d8 (Surr)	109		70 - 130				12/04/24 17:20	50
4 Duama fluores harmana (Ourse)	100		70 100				10/01/01 17 00	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		12/04/24 17:20	50
Toluene-d8 (Surr)	109		70 - 130		12/04/24 17:20	50
4-Bromofluorobenzene (Surr)	100		70 - 130		12/04/24 17:20	50
Dibromofluoromethane (Surr)	109		70 - 130		12/04/24 17:20	50

Client: Hilcorp Energy

Job ID: 885-16142-1

Project/Site: Influent 112724

Client Sample ID: Influent 112724

Released to Imaging: 1/16/2025 2:16:43 PM

Date Collected: 11/27/24 14:50

Lab Sample ID: 885-16142-2

Matrix: Air

Date Received: 12/03/24 06:35 Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa		
Gasoline Range Organics	2100	250	ug/L			12/04/24 17:48	- 5		
(GRO)-C6-C10									

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1 Promofluorobenzene (Surr)	88	52 172		12/04/24 17:48		

	, , , , , , , , , , , , , , , , , , ,		 	
4-Bromofluorobenzene (Surr)	88	52 - 172	12/04/24 17:48	50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			12/04/24 17:48	50
1,1,1-Trichloroethane	ND		5.0	ug/L			12/04/24 17:48	50
1,1,2,2-Tetrachloroethane	ND		10	ug/L			12/04/24 17:48	50
1,1,2-Trichloroethane	ND		5.0	ug/L			12/04/24 17:48	50
1,1-Dichloroethane	ND		5.0	ug/L			12/04/24 17:48	50
1,1-Dichloroethene	ND		5.0	ug/L			12/04/24 17:48	50
1,1-Dichloropropene	ND		5.0	ug/L			12/04/24 17:48	50
1,2,3-Trichlorobenzene	ND		5.0	ug/L			12/04/24 17:48	50
1,2,3-Trichloropropane	ND		10	ug/L			12/04/24 17:48	50
1,2,4-Trichlorobenzene	ND		5.0	ug/L			12/04/24 17:48	50
1,2,4-Trimethylbenzene	ND		5.0	ug/L			12/04/24 17:48	50
1,2-Dibromo-3-Chloropropane	ND		10	ug/L			12/04/24 17:48	50
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			12/04/24 17:48	50
1,2-Dichlorobenzene	ND		5.0	ug/L			12/04/24 17:48	50
1,2-Dichloroethane (EDC)	ND		5.0	ug/L			12/04/24 17:48	50
1,2-Dichloropropane	ND		5.0	ug/L			12/04/24 17:48	50
1,3,5-Trimethylbenzene	ND		5.0	ug/L			12/04/24 17:48	50
1,3-Dichlorobenzene	ND		5.0	ug/L			12/04/24 17:48	50
1,3-Dichloropropane	ND		5.0	ug/L			12/04/24 17:48	50
1,4-Dichlorobenzene	ND		5.0	ug/L			12/04/24 17:48	50
1-Methylnaphthalene	ND		20	ug/L			12/04/24 17:48	50
2,2-Dichloropropane	ND		10	ug/L			12/04/24 17:48	50
2-Butanone	ND		50	ug/L			12/04/24 17:48	50
2-Chlorotoluene	ND		5.0	ug/L			12/04/24 17:48	50
2-Hexanone	ND		50	ug/L			12/04/24 17:48	50
2-Methylnaphthalene	ND		20	ug/L			12/04/24 17:48	50
4-Chlorotoluene	ND		5.0	ug/L			12/04/24 17:48	50
4-Isopropyltoluene	ND		5.0	ug/L			12/04/24 17:48	50
4-Methyl-2-pentanone	ND		50	ug/L			12/04/24 17:48	50
Acetone	ND		50	ug/L			12/04/24 17:48	50
Benzene	4.4		2.5	ug/L			12/04/24 17:48	50
Bromobenzene	ND		5.0	ug/L			12/04/24 17:48	50
Bromodichloromethane	ND		5.0	ug/L			12/04/24 17:48	50
Dibromochloromethane	ND		5.0	ug/L			12/04/24 17:48	50
Bromoform	ND		5.0	ug/L			12/04/24 17:48	50
Bromomethane	ND		15	ug/L			12/04/24 17:48	50
Carbon disulfide	ND		50	ug/L			12/04/24 17:48	50
Carbon tetrachloride	ND		5.0	ug/L			12/04/24 17:48	50
Chlorobenzene	ND		5.0	ug/L			12/04/24 17:48	50
Chloroethane	ND		10	ug/L			12/04/24 17:48	50
Chloroform	ND		5.0	ug/L			12/04/24 17:48	50

Client Sample Results

Client: Hilcorp Energy Job ID: 885-16142-1

Project/Site: Influent 112724

Client Sample ID: Influent 112724

Date Collected: 11/27/24 14:50 Date Received: 12/03/24 06:35

Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-16142-2

Matrix: Air

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Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
Chloromethane	ND	15	ug/L		12/04/24 17:48	50
cis-1,2-Dichloroethene	ND	5.0	ug/L		12/04/24 17:48	50
cis-1,3-Dichloropropene	ND	5.0	ug/L		12/04/24 17:48	50
Dibromomethane	ND	5.0	ug/L		12/04/24 17:48	50
Dichlorodifluoromethane	ND	5.0	ug/L		12/04/24 17:48	50
Ethylbenzene	ND	5.0	ug/L		12/04/24 17:48	50
Hexachlorobutadiene	ND	5.0	ug/L		12/04/24 17:48	50
Isopropylbenzene	ND	5.0	ug/L		12/04/24 17:48	50
Methyl-tert-butyl Ether (MTBE)	ND	5.0	ug/L		12/04/24 17:48	50
Methylene Chloride	ND	15	ug/L		12/04/24 17:48	50
n-Butylbenzene	ND	15	ug/L		12/04/24 17:48	50
N-Propylbenzene	ND	5.0	ug/L		12/04/24 17:48	50
Naphthalene	ND	10	ug/L		12/04/24 17:48	50
sec-Butylbenzene	ND	5.0	ug/L		12/04/24 17:48	50
Styrene	ND	5.0	ug/L		12/04/24 17:48	50
tert-Butylbenzene	ND	5.0	ug/L		12/04/24 17:48	50
Tetrachloroethene (PCE)	ND	5.0	ug/L		12/04/24 17:48	50
Toluene	24	5.0	ug/L		12/04/24 17:48	50
trans-1,2-Dichloroethene	ND	5.0	ug/L		12/04/24 17:48	50
trans-1,3-Dichloropropene	ND	5.0	ug/L		12/04/24 17:48	50
Trichloroethene (TCE)	ND	5.0	ug/L		12/04/24 17:48	50
Trichlorofluoromethane	ND	5.0	ug/L		12/04/24 17:48	50
Vinyl chloride	ND	5.0	ug/L		12/04/24 17:48	50
Xylenes, Total	78	7.5	ug/L		12/04/24 17:48	50
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	70 - 130			12/04/24 17:48	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		12/04/24 17:48	50
Toluene-d8 (Surr)	111		70 - 130		12/04/24 17:48	50
4-Bromofluorobenzene (Surr)	102		70 - 130		12/04/24 17:48	50
Dibromofluoromethane (Surr)	107		70 - 130		12/04/24 17:48	50

Client: Hilcorp Energy

Job ID: 885-16142-1

Project/Site: Influent 112724

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-16996/5 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air Analysis Batch: 16996

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics ND 5.0 ug/L 12/04/24 14:03

(GRO)-C6-C10

MB MB %Recovery Limits Surrogate Qualifier Prepared Analyzed Dil Fac 52 - 172 12/04/24 14:03 4-Bromofluorobenzene (Surr) 92

Lab Sample ID: LCS 885-16996/4

Matrix: Air

Analysis Batch: 16996

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec Gasoline Range Organics 500 495 ug/L 99 70 - 130

(GRO)-C6-C10

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 92 52 - 172

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-17048/4

Matrix: Air

Analysis Batch: 17048

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

-	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			12/04/24 14:03	1
1,1,1-Trichloroethane	ND		0.10	ug/L			12/04/24 14:03	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			12/04/24 14:03	1
1,1,2-Trichloroethane	ND		0.10	ug/L			12/04/24 14:03	1
1,1-Dichloroethane	ND		0.10	ug/L			12/04/24 14:03	1
1,1-Dichloroethene	ND		0.10	ug/L			12/04/24 14:03	1
1,1-Dichloropropene	ND		0.10	ug/L			12/04/24 14:03	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			12/04/24 14:03	1
1,2,3-Trichloropropane	ND		0.20	ug/L			12/04/24 14:03	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			12/04/24 14:03	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			12/04/24 14:03	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			12/04/24 14:03	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			12/04/24 14:03	1
1,2-Dichlorobenzene	ND		0.10	ug/L			12/04/24 14:03	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			12/04/24 14:03	1
1,2-Dichloropropane	ND		0.10	ug/L			12/04/24 14:03	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			12/04/24 14:03	1
1,3-Dichlorobenzene	ND		0.10	ug/L			12/04/24 14:03	1
1,3-Dichloropropane	ND		0.10	ug/L			12/04/24 14:03	1
1,4-Dichlorobenzene	ND		0.10	ug/L			12/04/24 14:03	1
1-Methylnaphthalene	ND		0.40	ug/L			12/04/24 14:03	1
2,2-Dichloropropane	ND		0.20	ug/L			12/04/24 14:03	1
2-Butanone	ND		1.0	ug/L			12/04/24 14:03	1
2-Chlorotoluene	ND		0.10	ug/L			12/04/24 14:03	1
2-Hexanone	ND		1.0	ug/L			12/04/24 14:03	1

Client: Hilcorp Energy Job ID: 885-16142-1

Project/Site: Influent 112724

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

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Lab Sample ID: MB 885-17048/4

Matrix: Air

Analysis Batch: 17048

Client Sample ID: Method Blank

Prep Type: Total/NA

ND ND ND ND	0.40 0.10 0.10	ug/L ug/L			12/04/24 14:03	1
ND		ug/L			10/01/01 11 00	
	0.10				12/04/24 14:03	1
ND	0	ug/L			12/04/24 14:03	1
ND	1.0	ug/L			12/04/24 14:03	1
ND	1.0	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.30	ug/L			12/04/24 14:03	1
ND	1.0	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.20	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.30	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.30	ug/L			12/04/24 14:03	1
ND	0.30	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.20	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.10	ug/L			12/04/24 14:03	1
ND	0.15	ug/L			12/04/24 14:03	1
MB MB						
	ND N	ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND 0.30 ND 1.0 ND 0.10	ND 0.10 ug/L ND 0.30 ug/L ND 0.30 ug/L ND 0.10 ug/L ND	ND 0.10 ug/L ND 0.30 ug/L ND 0.10 ug/L ND	ND 0.10 ug/L ND 0.30 ug/L ND 0.10 ug/L ND 0.10	ND 0.10 ug/L 12/04/24 14:03 ND 0.30 ug/L 12/04/24 14:03 ND 0.10 ug/L 12/04/24 14:03

Surrogate	%Recovery	Qualifier	Limits	Pr	repared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	103		70 - 130			12/04/24 14:03	1	
Toluene-d8 (Surr)	110		70 - 130			12/04/24 14:03	1	
4-Bromofluorobenzene (Surr)	101		70 - 130			12/04/24 14:03	1	
Dibromofluoromethane (Surr)	105		70 - 130			12/04/24 14:03	1	

Client: Hilcorp Energy Job ID: 885-16142-1

Project/Site: Influent 112724

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample	ID: LCS	885-1	7048/3
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Matrix: Air

Analysis Batch: 17048

Client Sample ID: Lab Control Sample Prep Type: Total/NA

			_	
			%Rec	
nit	D	%Rec	Limits	
g/L		100	70 - 130	
g/L		108	70 - 130	

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.1	20.2		ug/L		100	70 - 130	
Benzene	20.1	21.6		ug/L		108	70 - 130	
Chlorobenzene	20.1	21.0		ug/L		105	70 - 130	
Toluene	20.2	20.7		ug/L		103	70 - 130	
Trichloroethene (TCE)	20.2	19.4		ug/L		96	70 - 130	
LCS LCS								

LCS LCS

Spike

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 _ 130
Toluene-d8 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	109		70 - 130

QC Association Summary

Client: Hilcorp Energy Job ID: 885-16142-1 Project/Site: Influent 112724

GC/MS VOA

Analysis Batch: 16996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16142-1	#31 Influent 112724	Total/NA	Air	8015M/D	
885-16142-2	Influent 112724	Total/NA	Air	8015M/D	
MB 885-16996/5	Method Blank	Total/NA	Air	8015M/D	
LCS 885-16996/4	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 17048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16142-1	#31 Influent 112724	Total/NA	Air	8260B	
885-16142-2	Influent 112724	Total/NA	Air	8260B	
MB 885-17048/4	Method Blank	Total/NA	Air	8260B	
LCS 885-17048/3	Lab Control Sample	Total/NA	Air	8260B	

Client: Hilcorp Energy Job ID: 885-16142-1

Project/Site: Influent 112724

Client Sample ID: #31 Influent 112724 Lab Sample ID: 885-16142-1

Date Collected: 11/27/24 12:25 Matrix: Air Date Received: 12/03/24 06:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		50	16996	RA	EET ALB	12/04/24 17:20
Total/NA	Analysis	8260B		50	17048	RA	EET ALB	12/04/24 17:20

Client Sample ID: Influent 112724

Lab Sample ID: 885-16142-2 Date Collected: 11/27/24 14:50 Matrix: Air

Date Received: 12/03/24 06:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		50	16996	RA	EET ALB	12/04/24 17:48
Total/NA	Analysis	8260B		50	17048	RA	EET ALB	12/04/24 17:48

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy

Job ID: 885-16142-1

Project/Site: Influent 112724

Laboratory: Eurofins Albuquerque

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

Authority	Prog	ram	Identification Number	Expiration Date
New Mexico	State		NM9425, NM0901	02-26-25
			•	
_ ·	·	out the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
	bes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	(CDO) 00 040
8015M/D		Air	Gasoline Range Organics	(GRO)-C6-C10
8260B		Air	1,1,1,2-Tetrachloroethane	
8260B		Air	1,1,1-Trichloroethane	
8260B		Air	1,1,2,2-Tetrachloroethane	
8260B		Air	1,1,2-Trichloroethane	
8260B 8260B		Air Air	1,1-Dichloroethane	
			1,1-Dichloroethene	
8260B		Air	1,1-Dichloropropene	
8260B 8260B		Air	1,2,3-Trichlorobenzene	
		Air	1,2,3-Trichloropropane	
8260B		Air	1,2,4-Trichlorobenzene	
8260B 8260B		Air	1,2,4-Trimethylbenzene	
		Air	1,2-Dibromo-3-Chloroprop	
8260B 8260B		Air	1,2-Dibromoethane (EDB)	
8260B		Air	1,2-Dichlorobenzene	
8260B		Air	1,2-Dichloroethane (EDC)	
8260B		Air	1,2-Dichloropropane	
		Air	1,3,5-Trimethylbenzene	
8260B		Air	1,3-Dichlorobenzene	
8260B 8260B		Air	1,3-Dichloropropane	
		Air	1,4-Dichlorobenzene	
8260B		Air	1-Methylnaphthalene	
8260B 8260B		Air	2,2-Dichloropropane 2-Butanone	
		Air	2-Butanone 2-Chlorotoluene	
8260B 8260B		Air		
8260B		Air Air	2-Hexanone	
			2-Methylnaphthalene 4-Chlorotoluene	
8260B		Air		
8260B		Air	4-Isopropyltoluene	
8260B 8260B		Air Air	4-Methyl-2-pentanone Acetone	
8260B		Air	Benzene	
8260B		Air	Bromobenzene	
8260B		Air	Bromodichloromethane	
8260B		Air	Bromoform	
8260B			Bromomethane	
8260B		Air Air	Carbon disulfide	
			Carbon tetrachloride	
8260B		Air		
8260B 8260B		Air	Chlorobenzene Chloroethane	
8260B 8260B		Air	Chloroform	
		Air	Chloroform	
8260B 8260B		Air		
8260B 8260B		Air	cis-1,2-Dichloroethene	
8260B 8260B		Air Air	cis-1,3-Dichloropropene Dibromochloromethane	
02000		ΔII	Distribution officiality	

Eurofins Albuquerque

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Released to Imaging: 1/16/2025 2:16:43 PM

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-16142-1 Project/Site: Influent 112724

Laboratory: Eurofins Albuquerque (Continued)

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

ithority	Progra	am	Identification Number	Expiration Date		
• •	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This I	st may include analyte		
Analysis Method	Prep Method	Matrix	Analyte			
8260B		Air	 Dibromomethane			
8260B		Air	Dichlorodifluoromethane			
8260B		Air	Ethylbenzene			
8260B		Air	Hexachlorobutadiene			
8260B		Air	Isopropylbenzene			
8260B		Air	Methylene Chloride			
8260B		Air	Methyl-tert-butyl Ether (M	ITBE)		
8260B		Air	Naphthalene			
8260B		Air	n-Butylbenzene			
8260B		Air	N-Propylbenzene			
8260B		Air	sec-Butylbenzene	sec-Butylbenzene		
8260B		Air	Styrene	Styrene		
8260B		Air	tert-Butylbenzene	tert-Butylbenzene		
8260B		Air	Tetrachloroethene (PCE)	Tetrachloroethene (PCE)		
8260B		Air	Toluene			
8260B		Air	trans-1,2-Dichloroethene			
8260B		Air	trans-1,3-Dichloropropen	е		
8260B		Air	Trichloroethene (TCE)			
8260B		Air	Trichlorofluoromethane			
8260B		Air	Vinyl chloride			
8260B		Air	Xylenes, Total			
egon	NELAI	o	NM100001	02-25-25		

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics (GRO)-C6-C10
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene

Eurofins Albuquerque

Client: Hilcorp Energy

Job ID: 885-16142-1

Project/Site: Influent 112724

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progra	am	Identification Number	Expiration Date
	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This list	may include analyte
Analysis Method	Prep Method	Matrix	Analyte	
8260B		Air	1-Methylnaphthalene	
8260B		Air	2,2-Dichloropropane	
8260B		Air	2-Butanone	
8260B		Air	2-Chlorotoluene	
8260B		Air	2-Hexanone	
8260B		Air	2-Methylnaphthalene	
8260B		Air	4-Chlorotoluene	
8260B		Air	4-Isopropyltoluene	
8260B		Air	4-Methyl-2-pentanone	
8260B		Air	Acetone	
8260B		Air	Benzene	
8260B		Air	Bromobenzene	
8260B		Air	Bromodichloromethane	
8260B		Air	Bromoform	
8260B		Air	Bromomethane	
8260B		Air	Carbon disulfide	
8260B		Air	Carbon tetrachloride	
8260B		Air	Chlorobenzene	
8260B		Air	Chloroethane	
8260B		Air	Chloroform	
8260B		Air	Chloromethane	
8260B		Air	cis-1,2-Dichloroethene	
8260B		Air	cis-1,3-Dichloropropene	
8260B		Air	Dibromochloromethane	
8260B		Air	Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air	Ethylbenzene	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (MT	BE)
8260B		Air	Naphthalene	
8260B		Air	n-Butylbenzene	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE)	
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethene	
8260B		Air	trans-1,3-Dichloropropene	
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	

Eurofins Albuquerque

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ANALYTICAL SUMMARY REPORT

December 10, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B24120342 Quote ID: B15626

Project Name: Influent 112724, 88500531

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 12/4/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B24120342-001	Influent 112724 (885- 16142-2)	11/27/24 14:50 12/04/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

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Report Date: 12/10/24

DateReceived: 12/04/24

Matrix: Air

Collection Date: 11/27/24 14:50

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: Influent 112724, 88500531

Lab ID: B24120342-001

Client Sample ID: Influent 112724 (885-16142-2)

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	22.05	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Nitrogen	77.75	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Carbon Dioxide	0.18	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Hexanes plus	0.02	Mol %		0.01		GPA 2261-13	12/06/24 11:05 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	12/06/24 11:05 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	12/06/24 11:05 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	12/06/24 11:05 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	12/06/24 11:05 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	12/06/24 11:05 / jrj
Hexanes plus	0.008			0.001		GPA 2261-13	12/06/24 11:05 / jrj
GPM Total	0.008			0.001		GPA 2261-13	12/06/24 11:05 / jrj
GPM Pentanes plus	0.008	gpm		0.001		GPA 2261-13	12/06/24 11:05 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	1			1		GPA 2261-13	12/06/24 11:05 / jrj
Net BTU per cu ft @ std cond. (LHV)	1			1		GPA 2261-13	12/06/24 11:05 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-13	12/06/24 11:05 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-13	12/06/24 11:05 / jrj
Specific Gravity @ 60/60F	0.999			0.001		D3588-81	12/06/24 11:05 / jrj
Air, % - The analysis was not corrected for air.	100.74			0.01		GPA 2261-13	12/06/24 11:05 / jrj
COMMENTS							

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis

RL - Analyte Reporting Limit Report **Definitions:**

QCL - Quality Control Limit

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

12/06/24 11:05 / jrj

Trust our People. Trust our Data.

www.energylab.com

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B24120342		·				Repo	ort Date:	12/10/24	
Analyte	Count Resu	lt Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-13								Batch	: R433616
Lab ID: B24120342-001ADUP	12 Sample Du	plicate			Run: GCNC	GA-B_241206A		12/06	/24 11:54
Oxygen	22.	1 Mol %	0.01				0.1	20	
Nitrogen	77.	7 Mol %	0.01				0	20	
Carbon Dioxide	0.1	8 Mol %	0.01				0.0	20	
Hydrogen Sulfide	<0.0	1 Mol %	0.01					20	
Methane	<0.0	1 Mol %	0.01					20	
Ethane	<0.0	1 Mol %	0.01					20	
Propane	<0.0	1 Mol %	0.01					20	
Isobutane	<0.0	1 Mol %	0.01					20	
n-Butane	<0.0	1 Mol %	0.01					20	
Isopentane	<0.0	1 Mol %	0.01					20	
n-Pentane	<0.0	1 Mol %	0.01					20	
Hexanes plus	0.0	2 Mol %	0.01				0.0	20	
Lab ID: LCS120624	11 Laboratory	Control Sample			Run: GCNC	GA-B_241206A		12/06	/24 13:35
Oxygen	0.6	0 Mol %	0.01	120	70	130			
Nitrogen	6.2	1 Mol %	0.01	103	70	130			
Carbon Dioxide	0.9	9 Mol %	0.01	100	70	130			
Methane	74.	5 Mol %	0.01	100	70	130			
Ethane	6.0	5 Mol %	0.01	101	70	130			
Propane	5.0	4 Mol %	0.01	102	70	130			
Isobutane	1.7	9 Mol %	0.01	89	70	130			
n-Butane	2.0	0 Mol %	0.01	100	70	130			
Isopentane	1.0	1 Mol %	0.01	101	70	130			
n-Pentane	1.0	0 Mol %	0.01	100	70	130			

0.01

0.80

Mol %

100

70

130

Qualifiers:

Hexanes plus

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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Work Order Receipt Checklist

Hall Environmental

B24120342

Login completed by: Lyndsi E. LeProwse		Date	Received: 12/4/2024
Reviewed by: darcy		Re	ceived by: KLP
Reviewed Date: 12/6/2024		Car	rier name: FedEx NDA
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present
Custody seals intact on all shipping container(s)/cooler(s)?	Yes	No 🗌	Not Present ✓
Custody seals intact on all sample bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?	Yes ✓	No 🗌	
Chain of custody signed when relinquished and received?	Yes	No 🗹	
Chain of custody agrees with sample labels?	Yes ✓	No 🗌	
Samples in proper container/bottle?	Yes ✓	No 🗌	
Sample containers intact?	Yes ✓	No 🗌	
Sufficient sample volume for indicated test?	Yes ✓	No 🗌	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ✓	No 🗌	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temperature:	14.3°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes	No 🗌	No VOA vials submitted
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable ✓

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

A chain of custody was received via email from Steven McQuiston on 12/4/24 @ 1623. LEL 12/05/24

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Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
Billings, MT	Florida (Primary NELAP)	E87668
- The second	Idaho	MT00005
d	Louisiana	05079
ANAB	Montana	CERT0044
ARSI National Accidentation Where ACCREDITED	Nebraska	NE-OS-13-04
TESTING LABORATORY	Nevada	NV-C24-00250
a sccore.	North Dakota	R-007
	National Radon Proficiency	109383-RMP
700	Oregon	4184
AGNATOR	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
Casper, WY	Montana	CERT0002
ALS ACCORDING	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
SARORINOS.	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
	Colorado	MT00945
Helena, MT	Montana	CERT0079
PARTER ENDS	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Albuquerque, NM 87109 Phone: 505-345-3975 Fax: 505-345-4107		diam of custody necord	roay Le	pion	74		Environment Testing
Client Information (Sub Contract Lab)	Sampler: N/A		Lab PM Garcia	Lab PM: Garcia, Michelle	Carrier Tracking No(s): N/A	COC No:	
Client Contact: Shipping/Receiving	Phone: N/A		E-Mail: miche	E-Mail: michelle.garcla@et.eurofinsus.com		Page:	
Company: Energy Laboratories, Inc.			Q.Z.	Accreditations Required (See note): NELAP - Oregon; State - New Mexico	Mexico	Job #: 885-16142-1	
Address: 1120 South 27th Street,	Due Date Requested: 12/10/2024			Analy	Analysis Requested	Preservation Codes:	es:
City: Billings State Jp: MT. 56101		NIA				K	
min of the control of	PO# N/A			lo			
Email: N/A	WO#:			(o)		S	
Project Name: Influent 112724	Project #: 188500531			10 SE		nonie;	
Site: N/A	SSOW#:			N) as		oop to	
Sample Identification - Client ID (Lab ID)	Sample Date Time	Sample Type (C=comp,	Matrix (W-water, S-solid, O-westeldi,	field Filtered Sasi			
The state of the s		1	- HORSE	X	日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日		Special Instructions/Note:
Influent 112724 (885-16142-2)	11/27/24 14:50 Mountain	o S	Air	×		142061454	1450
Note: Since laboratory accreditations are subject to change, Euroffine Environment Testing South Central, LLC places the ownership of method, analyzed, as accreditation compliance upon our subport to change. This samples subject to change subject to the Supplement to subject subject subjects that samples must be shipped back to the Euroffine Environment Testing South Central, LLC places are consistent of the Supplement Testing South Central, LLC places are consistent of the Euroffine Environment Testing South Central, LLC administration of order and are consistent or state of the Euroffine Environment Testing South Central, LLC administration of the Euroffine Environment Testing South Central, LLC administration of the Euroffine Environment Testing South Central, LLC administration of the Euroffine Environment Testing South Central, LLC administration of the Euroffine Environment Testing South Central, LLC administration of the Euroffine Environment Testing South Central, LLC administration of the Euroffine Environment Testing South Central, LLC administration of the Euroffine Environment Testing South Central, LLC administration are currently represented to the Euroffine Environment Testing South Central and Environment Testing Sou	vironment Testing South Central, LLC p i listed above for analysis/tests/matrix be South Central, LLC attention immediately	laces the ownershiping analyzed, the	p of method, ana samples must be accreditations are	Vie & accreditation compliance upo. shipped back to the Eurofins Enviro current to date, return the signed C	n our subcontract laboratories. This ser ment Testing South Central, LLC labor hain of Custody attesting to said compil	mple shipment is forwarded under c ratory or other instructions will be pi lance to Eurofins Environment Test	chain-of-custody rovided. Any of
Possible Hazard Identification				Sample Disposal (A fee	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	re retained longer than 1 m	nonth)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	k: 2		Special Instructions/QC Requirements:	Disposal By Lab	Archive For	Months
Empty Kit Relinquished by:	Date:			Time:	Method of Shipment:		
Relinquished by:	Date/Time:		Company	Received by:	Dete/Time:		Company
Relinquished by:	Date/Time:		Company	Received by:	Date/Time:		623 Company
	Date/Time:		Company	Received by ROW	Daterrine:	E HE	Company
Custody Seals Intact: Custody Seal No :				Charles Townson Nice (a) On and Others Described		-	

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ANALYTICAL SUMMARY REPORT

December 10, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: Quote ID: B15626 B24120535

Project Name: Influent 112724, 88500531

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 12/6/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matri x	Test
B24120535-001	#31 Influent 112724 (885-16142-1)	11/27/24 12:25 12/06/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

Billings, MT 406.252.6325 . Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Report Date: 12/10/24

DateReceived: 12/06/24

Matrix: Air

Collection Date: 11/27/24 12:25

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: Influent 112724, 88500531

Lab ID: B24120535-001

Client Sample ID: #31 Influent 112724 (885-16142-1)

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
	Nesun	Jillo	- Qualifiel 5		401		, maryono Date / Dy
GAS CHROMATOGRAPHY ANALYSIS F	REPORT						
Oxygen	22.01	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
Nitrogen	77.78	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
Carbon Dioxide	0.16	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
lydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
thane	0.01	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
ropane	0.01	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
sobutane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
-Butane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
sopentane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
-Pentane	<0.01	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
lexanes plus	0.03	Mol %		0.01		GPA 2261-13	12/06/24 14:24 / jrj
ropane	0.003	gpm		0.001		GPA 2261-13	12/06/24 14:24 / jrj
sobutane	< 0.001	gpm		0.001		GPA 2261-13	12/06/24 14:24 / jrj
-Butane	< 0.001	gpm		0.001		GPA 2261-13	12/06/24 14:24 / jrj
sopentane	< 0.001	gpm		0.001		GPA 2261-13	12/06/24 14:24 / jrj
-Pentane	< 0.001	gpm		0.001		GPA 2261-13	12/06/24 14:24 / jrj
lexanes plus	0.013	gpm		0.001		GPA 2261-13	12/06/24 14:24 / jrj
PM Total	0.015	gpm		0.001		GPA 2261-13	12/06/24 14:24 / jrj
PM Pentanes plus	0.013	gpm		0.001		GPA 2261-13	12/06/24 14:24 / jrj
ALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	2			1		GPA 2261-13	12/06/24 14:24 / jrj
let BTU per cu ft @ std cond. (LHV)	2			1		GPA 2261-13	12/06/24 14:24 / jrj
seudo-critical Pressure, psia	546			1		GPA 2261-13	12/06/24 14:24 / jrj
seudo-critical Temperature, deg R	240			1		GPA 2261-13	12/06/24 14:24 / jrj
pecific Gravity @ 60/60F	0.999			0.001		D3588-81	12/06/24 14:24 / jrj
sir, %	100.55			0.01		GPA 2261-13	12/06/24 14:24 / jrj
- The analysis was not corrected for air.							
OMMENTS							

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis

RL - Analyte Reporting Limit Report **Definitions:**

QCL - Quality Control Limit

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

12/06/24 14:24 / jrj

ENERGY

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B24120535					Report Date: 12						
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-13									Batch:	R433616
Lab ID:	B24120342-001ADUP	12 Saı	mple Duplic	ate			Run: GCNC	SA-B 241206A		12/06	/24 11:54
Oxygen			22.1	Mol %	0.01				0.1	20	
Nitrogen			77.7	Mol %	0.01				0	20	
Carbon D	Dioxide		0.18	Mol %	0.01				0.0	20	
Hydroger	n Sulfide		< 0.01	Mol %	0.01					20	
Methane			<0.01	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutane	е		<0.01	Mol %	0.01					20	
n-Butane			<0.01	Mol %	0.01					20	
Isopentar	ne		<0.01	Mol %	0.01					20	
n-Pentan	е		<0.01	Mol %	0.01					20	
Hexanes	plus		0.02	Mol %	0.01				0.0	20	
Lab ID:	LCS120624	11 Lab	ooratory Co	ntrol Sample			Run: GCNC	SA-B_241206A		12/06	/24 13:35
Oxygen			0.60	Mol %	0.01	120	70	130			
Nitrogen			6.21	Mol %	0.01	103	70	130			
Carbon D	Dioxide		0.99	Mol %	0.01	100	70	130			
Methane			74.5	Mol %	0.01	100	70	130			
Ethane			6.05	Mol %	0.01	101	70	130			
Propane			5.04	Mol %	0.01	102	70	130			
Isobutane	е		1.79	Mol %	0.01	89	70	130			
n-Butane			2.00	Mol %	0.01	100	70	130			
Isopentar	ne		1.01	Mol %	0.01	101	70	130			
n-Pentan	е		1.00	Mol %	0.01	100	70	130			
Hexanes	plus		0.80	Mol %	0.01	100	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Work Order Receipt Checklist

Hall Environmental B24120535

Login completed by:	Lyndsi E. LeProwse		Date	Received: 12/6/2024			
Reviewed by: dharris		Received by: DNH					
Reviewed Date:	12/9/2024		Carrier name: FedEx NDA				
Shipping container/cooler in	good condition?	Yes 🗸	No 🗌	Not Present			
Custody seals intact on all sl	hipping container(s)/cooler(s)?	Yes 🗸	No 🗌	Not Present			
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present 🗹			
Chain of custody present?		Yes 🔽	No 🗌				
Chain of custody signed whe	en relinquished and received?	Yes 🗹	No 🗌				
Chain of custody agrees with	n sample labels?	Yes √	No 🗌				
Samples in proper container	/bottle?	Yes 🗹	No 🗌				
Sample containers intact?		Yes 🔽	No 🗌				
Sufficient sample volume for	indicated test?	Yes 🔽	No 🗌				
All samples received within h (Exclude analyses that are countries pH, DO, Res CI, Su	onsidered field parameters	Yes 🗸	No 🗌				
Temp Blank received in all sl	hipping container(s)/cooler(s)?	Yes	No 🗸	Not Applicable			
Container/Temp Blank tempe	erature:	13.1°C No Ice					
Containers requiring zero heabubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted ✓			
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable			

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

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11

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
	Alaska	17-023
Billings, MT	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
Billings, MT	Florida (Primary NELAP)	E87668
- The second	Idaho	MT00005
d	Louisiana	05079
ANAB	Montana	CERT0044
ARSI National Accidentation Where ACCREDITED	Nebraska	NE-OS-13-04
TESTING LABORATORY	Nevada	NV-C24-00250
a sccore.	North Dakota	R-007
	National Radon Proficiency	109383-RMP
700	Oregon	4184
AGNATOR	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
Casper, WY	Montana	CERT0002
ALS ACCORDING	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
SARORINOS.	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
	Colorado	MT00945
Helena, MT	Montana	CERT0079
PARTER ENDS	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Environment Testing Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This samples the chain-of-custody. If the above for analysis/fests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. Special Instructions/Note: Ver: 10/10/202 Months Company 82412053 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Preservation Codes: seurofins : COC No: 885-3052.1 Page: Page 1 of 1 Job #: 885-16142-1 1025 Total Number of containers Date/Time: Date/Time: Date/Time: Method of Shipment Carrier Tracking No(s) N/A State of Origin: New Mexico **Analysis Requested** Special Instructions/QC Requirements: Accreditations Required (See note):
NELAP - Oregon; State - New Mexico Cooler Temperature(s) °C and Other Re Lab PM:
Garcia, Michelle
E-Mail:
michelle,garcia@et.eurofinsus.com eceived by: Received by: Chain of Custody Record SUB (Fixed Gases)/ Fixed Gases Perform MS/MSD (Yes or No) ime: Matrix Preservation Code Air Company Company (C=comp, G=grab) Sample Type O A/N Primary Deliverable Rank: 2 Sample Mountain Time 12:25 Due Date Requested: 12/10/2024 TAT Requested (days): Date/Time: Sample Date 11/27/24 Project #: 88500531 Date/Time N/A Phone: WO# N/A Client Information (Sub Contract Lab) Deliverable Requested: I, II, III, IV, Other (specify) Sample Identification - Client ID (Lab ID) Custody Seal No. Phone: 505-345-3975 Fax: 505-345-4107 **Eurofins Albuquerque** #31 Influent 112724 (885-16142-1) Possible Hazard Identification Albuquerque, NM 87109 Empty Kit Relinquished by Energy Laboratories, Inc. 1120 South 27th Street, Custody Seals Intact: Shipping/Receiving Phone: 406-252-6325(Tel) 4901 Hawkins NE Project Name: Influent 112724 dnished by: nquished by: elinquished by: State, Zip. MT, 59101 Billings

> Page 6 of 6 12/13/2024

Received by OCD: 1/10/2025	3:42:15 PM		Page 195 of 252
TAL 885-16142 COC			1 2
ENVIRONMEN YSIS LABORA environmental.com Albuquerque, NM 87109 Fax 505-345-4107	PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) FUL 14 B270 (Semi-VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)	28 X X	Fhuson Central In Come card Any sub-contracted data will be clearly notated on the analytical report.
### ##################################	TPH:8015D(6RQ \ DRO \ MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1)		CC; Hurson Ecaral essibility Any sub-contract
Turn-Around Time: 10 clocy TR7 Standard □ Rush Project Name: '	Mang	Type A Date Time Via:	
Client: Hulcory Record Turn Client: Hulcory Mailing Address: Phone #:	email or Fax#: McIllaush Chulcarp.com QA/QC Package: Standard	Time Matrix Sample Name M. 1225 R.C. #31 Influent 112724 M. 1460 Par Influent 112724 M. 1960 Par Inf	

12/13/2024

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-16142-1

Login Number: 16142 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

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

c 1>0 0j 202

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

Generated 12/24/2024 11:24:19 AM

JOB DESCRIPTION

Hare 15

JOB NUMBER

885-16444-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

Generated 12/24/2024 11:24:19 AM

Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975

Page 2 of 26 12/24/2024

Client: Hilcorp Energy
Laboratory Job ID: 885-16444-1
Project/Site: Hare 15

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Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-16444-1
Project/Site: Hare 15

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Albuquerque

Case Narrative

Client: Hilcorp Energy Job ID: 885-16444-1 Project: Hare 15

Job ID: 885-16444-1 **Eurofins Albuquerque**

Job Narrative 885-16444-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 12/6/2024 6:35 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Gasoline Range Organics

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

Method 8260B: The continuing calibration verification (CCV) associated with batch 885-17948 recovered outside acceptance criteria, low biased, for Bromomethane. CCV meets 8260B criteria. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

Eurofins Albuquerque

Dil Fac

Client Sample Results

Client: Hilcorp Energy Job ID: 885-16444-1

Project/Site: Hare 15

Client Sample ID: Influent 12524

Date Collected: 12/05/24 14:00

Date Received: 12/06/24 06:35 Sample Container: Tedlar Bag 1L Lab Sample ID: 885-16444-1

Matrix: Air

Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics) Analyte Result Qualifier RL Unit Prepared Analyzed 25 ug/L 12/16/24 16:45 Gasoline Range Organics [C6 -440

C10]

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 100 52 - 172 12/16/24 16:45

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND ND	0.50	ug/L			12/16/24 16:45	5
1,1,1-Trichloroethane	ND	0.50	ug/L			12/16/24 16:45	5
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L			12/16/24 16:45	5
1,1,2-Trichloroethane	ND	0.50	ug/L			12/16/24 16:45	5
1,1-Dichloroethane	ND	0.50	ug/L			12/16/24 16:45	5
1,1-Dichloroethene	ND	0.50	ug/L			12/16/24 16:45	5
1,1-Dichloropropene	ND	0.50	ug/L			12/16/24 16:45	5
1,2,3-Trichlorobenzene	ND	0.50	ug/L			12/16/24 16:45	5
1,2,3-Trichloropropane	ND	1.0	ug/L			12/16/24 16:45	5
1,2,4-Trichlorobenzene	ND	0.50	ug/L			12/16/24 16:45	5
1,2,4-Trimethylbenzene	ND	0.50	ug/L			12/16/24 16:45	5
1,2-Dibromo-3-Chloropropane	ND	1.0	ug/L			12/16/24 16:45	5
1,2-Dibromoethane (EDB)	ND	0.50	ug/L			12/16/24 16:45	5
1,2-Dichlorobenzene	ND	0.50	ug/L			12/16/24 16:45	5
1,2-Dichloroethane (EDC)	ND	0.50	ug/L			12/16/24 16:45	5
1,2-Dichloropropane	ND	0.50	ug/L			12/16/24 16:45	5
1,3,5-Trimethylbenzene	ND	0.50	ug/L			12/16/24 16:45	5
1,3-Dichlorobenzene	ND	0.50	ug/L			12/16/24 16:45	5
1,3-Dichloropropane	ND	0.50	ug/L			12/16/24 16:45	5
1,4-Dichlorobenzene	ND	0.50	ug/L			12/16/24 16:45	5
1-Methylnaphthalene	ND	2.0	ug/L			12/16/24 16:45	5
2,2-Dichloropropane	ND	1.0	ug/L			12/16/24 16:45	5
2-Butanone	ND	5.0	ug/L			12/16/24 16:45	5
2-Chlorotoluene	ND	0.50	ug/L			12/16/24 16:45	5
2-Hexanone	ND	5.0	ug/L			12/16/24 16:45	5
2-Methylnaphthalene	ND	2.0	ug/L			12/16/24 16:45	5
4-Chlorotoluene	ND	0.50	ug/L			12/16/24 16:45	5
4-Isopropyltoluene	ND	0.50	ug/L			12/16/24 16:45	5
4-Methyl-2-pentanone	ND	5.0	ug/L			12/16/24 16:45	5
Acetone	ND	5.0	ug/L			12/16/24 16:45	5
Benzene	1.1	0.50	ug/L			12/16/24 16:45	5
Bromobenzene	ND	0.50	ug/L			12/16/24 16:45	5
Bromodichloromethane	ND	0.50	ug/L			12/16/24 16:45	5
Dibromochloromethane	ND	0.50	ug/L			12/16/24 16:45	5
Bromoform	ND	0.50	ug/L			12/16/24 16:45	5
Bromomethane	ND	1.5	ug/L			12/16/24 16:45	5
Carbon disulfide	ND	5.0	ug/L			12/16/24 16:45	5
Carbon tetrachloride	ND	0.50	ug/L			12/16/24 16:45	5
Chlorobenzene	ND	0.50	ug/L			12/16/24 16:45	5
Chloroethane	ND	1.0	ug/L			12/16/24 16:45	5
Chloroform	ND	0.50	ug/L			12/16/24 16:45	5

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Job ID: 885-16444-1

Client: Hilcorp Energy Project/Site: Hare 15

Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Influent 12524

Date Collected: 12/05/24 14:00

Date Received: 12/06/24 06:35 Sample Container: Tedlar Bag 1L Lab Sample ID: 885-16444-1

Matrix: Air

6

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Method: SW846 8260B - Vo Analyte	Result Qualifier	RL	Unit	D Prepa	red Analyzed	Dil Fac
Chloromethane	ND	1.5	ug/L	<u> </u>	12/16/24 16:45	5
cis-1,2-Dichloroethene	ND	0.50	ug/L		12/16/24 16:45	5
cis-1,3-Dichloropropene	ND	0.50	ug/L		12/16/24 16:45	5
Dibromomethane	ND	0.50	ug/L		12/16/24 16:45	5
Dichlorodifluoromethane	ND	0.50	ug/L		12/16/24 16:45	5
Ethylbenzene	ND	0.50	ug/L		12/16/24 16:45	5
Hexachlorobutadiene	ND	0.50	ug/L		12/16/24 16:45	5
Isopropylbenzene	ND	0.50	ug/L		12/16/24 16:45	5
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/L		12/16/24 16:45	5
Methylene Chloride	ND	1.5	ug/L		12/16/24 16:45	5
n-Butylbenzene	ND	1.5	ug/L		12/16/24 16:45	5
N-Propylbenzene	ND	0.50	ug/L		12/16/24 16:45	5
Naphthalene	ND	1.0	ug/L		12/16/24 16:45	5
sec-Butylbenzene	ND	0.50	ug/L		12/16/24 16:45	5
Styrene	ND	0.50	ug/L		12/16/24 16:45	5
tert-Butylbenzene	ND	0.50	ug/L		12/16/24 16:45	5
Tetrachloroethene (PCE)	ND	0.50	ug/L		12/16/24 16:45	5
Toluene	1.8	0.50	ug/L		12/16/24 16:45	5
trans-1,2-Dichloroethene	ND	0.50	ug/L		12/16/24 16:45	5
trans-1,3-Dichloropropene	ND	0.50	ug/L		12/16/24 16:45	5
Trichloroethene (TCE)	ND	0.50	ug/L		12/16/24 16:45	5
Trichlorofluoromethane	ND	0.50	ug/L		12/16/24 16:45	5
Vinyl chloride	ND	0.50	ug/L		12/16/24 16:45	5
Xylenes, Total	0.92	0.75	ug/L		12/16/24 16:45	5
Surrogate	%Recovery Qualifier	Limits		Prepa	red Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102	70 - 130		<u>-</u>	12/16/24 16:45	5

70 - 130

70 - 130

70 - 130

109

96

96

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12/16/24 16:45

12/16/24 16:45

12/16/24 16:45

Client Sample ID: Method Blank

12/16/24 11:51

Prep Type: Total/NA

Client: Hilcorp Energy Job ID: 885-16444-1

Project/Site: Hare 15

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-17818/4

Matrix: Air

Analysis Ratch: 17818

Analysis Balch: 17010								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			12/16/24 11:51	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Lab Sample ID: LCS 885-17818/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

52 - 172

Matrix: Air

Analysis Batch: 17818

4-Bromofluorobenzene (Surr)

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics [C6 -500 532 ug/L 106 70 - 130

C10]

Surrogate %Recovery Qualifier 101

Limits 4-Bromofluorobenzene (Surr) 52 - 172

101

LCS LCS

Lab Sample ID: 885-16444-1 DU Client Sample ID: Influent 12524 Prep Type: Total/NA

Matrix: Air

Analysis Batch: 17818

DU DU **RPD** Sample Sample Result Qualifier Analyte Result Qualifier Unit RPD Limit Gasoline Range Organics [C6 -440 428 ug/L 20

C10]

DU DU Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 100 52 - 172

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-17948/13 **Client Sample ID: Method Blank** Matrix: Air

Analysis Batch: 17948

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-	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			12/16/24 16:21	1
1,1,1-Trichloroethane	ND		0.10	ug/L			12/16/24 16:21	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			12/16/24 16:21	1
1,1,2-Trichloroethane	ND		0.10	ug/L			12/16/24 16:21	1
1,1-Dichloroethane	ND		0.10	ug/L			12/16/24 16:21	1
1,1-Dichloroethene	ND		0.10	ug/L			12/16/24 16:21	1
1,1-Dichloropropene	ND		0.10	ug/L			12/16/24 16:21	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			12/16/24 16:21	1
1,2,3-Trichloropropane	ND		0.20	ug/L			12/16/24 16:21	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			12/16/24 16:21	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			12/16/24 16:21	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			12/16/24 16:21	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			12/16/24 16:21	1
1,2-Dichlorobenzene	ND		0.10	ug/L			12/16/24 16:21	1

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Prep Type: Total/NA

Dil Fac

QC Sample Results

Client: Hilcorp Energy Job ID: 885-16444-1 Project/Site: Hare 15

RL

Unit

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

MB MB

Result Qualifier

Lab Sample ID: MB 885-17948/13

Matrix: Air

Analyte

Analysis Batch: 17948

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

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Trichloroethene (TCE)

Trichlorofluoromethane

Client Sample ID: Method Blank

Prepared

Prep Type: Total/NA

Analyzed

Analyte	Result Qualifier	KL	Unit	D Prepared	Analyzeu	DII Fac
1,2-Dichloroethane (EDC)	ND -	0.10	ug/L		12/16/24 16:21	1
1,2-Dichloropropane	ND	0.10	ug/L		12/16/24 16:21	1
1,3,5-Trimethylbenzene	ND	0.10	ug/L		12/16/24 16:21	1
1,3-Dichlorobenzene	ND	0.10	ug/L		12/16/24 16:21	1
1,3-Dichloropropane	ND	0.10	ug/L		12/16/24 16:21	1
1,4-Dichlorobenzene	ND	0.10	ug/L		12/16/24 16:21	1
1-Methylnaphthalene	ND	0.40	ug/L		12/16/24 16:21	1
2,2-Dichloropropane	ND	0.20	ug/L		12/16/24 16:21	1
2-Butanone	ND	1.0	ug/L		12/16/24 16:21	1
2-Chlorotoluene	ND	0.10	ug/L		12/16/24 16:21	1
2-Hexanone	ND	1.0	ug/L		12/16/24 16:21	1
2-Methylnaphthalene	ND	0.40	ug/L		12/16/24 16:21	1
4-Chlorotoluene	ND	0.10	ug/L		12/16/24 16:21	1
4-Isopropyltoluene	ND	0.10	ug/L		12/16/24 16:21	1
4-Methyl-2-pentanone	ND	1.0	ug/L		12/16/24 16:21	1
Acetone	ND	1.0	ug/L		12/16/24 16:21	1
Benzene	ND	0.10	ug/L		12/16/24 16:21	1
Bromobenzene	ND	0.10	ug/L		12/16/24 16:21	1
Bromodichloromethane	ND	0.10	ug/L		12/16/24 16:21	1
Dibromochloromethane	ND	0.10	ug/L		12/16/24 16:21	1
Bromoform	ND	0.10	ug/L		12/16/24 16:21	1
Bromomethane	ND	0.30	ug/L		12/16/24 16:21	1
Carbon disulfide	ND	1.0	ug/L		12/16/24 16:21	1
Carbon tetrachloride	ND	0.10	ug/L		12/16/24 16:21	1
Chlorobenzene	ND	0.10	ug/L		12/16/24 16:21	1
Chloroethane	ND	0.20	ug/L		12/16/24 16:21	1
Chloroform	ND	0.10	ug/L		12/16/24 16:21	1
Chloromethane	ND	0.30	ug/L		12/16/24 16:21	1
cis-1,2-Dichloroethene	ND	0.10	ug/L		12/16/24 16:21	1
cis-1,3-Dichloropropene	ND	0.10	ug/L		12/16/24 16:21	1
Dibromomethane	ND	0.10	ug/L		12/16/24 16:21	1
Dichlorodifluoromethane	ND	0.10	ug/L		12/16/24 16:21	1
Ethylbenzene	ND	0.10	ug/L		12/16/24 16:21	1
Hexachlorobutadiene	ND	0.10	ug/L		12/16/24 16:21	1
Isopropylbenzene	ND	0.10	ug/L		12/16/24 16:21	1
Methyl-tert-butyl Ether (MTBE)	ND	0.10	ug/L		12/16/24 16:21	1
Methylene Chloride	ND	0.30	ug/L		12/16/24 16:21	1
n-Butylbenzene	ND	0.30	ug/L		12/16/24 16:21	· · · · · · · · · · · · · · · · · · ·
N-Propylbenzene	ND	0.10	ug/L		12/16/24 16:21	1
Naphthalene	ND	0.20	ug/L		12/16/24 16:21	1
sec-Butylbenzene	ND	0.10	ug/L		12/16/24 16:21	1
Styrene	ND	0.10	ug/L		12/16/24 16:21	1
tert-Butylbenzene	ND	0.10	ug/L		12/16/24 16:21	1
Tetrachloroethene (PCE)	ND	0.10	ug/L		12/16/24 16:21	1
Toluene	ND	0.10	ug/L		12/16/24 16:21	1
Toluctio	ND	0.10	ug/L		12/10/24 10.21	!

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12/16/24 16:21

12/16/24 16:21

12/16/24 16:21

12/16/24 16:21

0.10

0.10

0.10

0.10

ug/L

ug/L

ug/L

ug/L

ND

ND

ND

ND

6

QC Sample Results

Client: Hilcorp Energy Job ID: 885-16444-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

MB MB

Lab Sample ID: MB 885-17948/13 **Matrix: Air**

Analysis Batch: 17948

Client Sample ID: Method Blank

Prep Type: Total/NA

Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ND	0.10	ug/L			12/16/24 16:21	1
ND	0.15	ug/L			12/16/24 16:21	1
	Result Qualifier ND	Result Qualifier RL ND 0.10	Result Qualifier RL Unit ND 0.10 ug/L	Result ND Qualifier Qualifier RL Qualifier Qualifier Unit ug/L D	Result ND Qualifier RL 0.10 Unit ug/L D ug/L Prepared	Result ND Qualifier RL 0.10 Unit ug/L D verpared ug/L Analyzed 12/16/24 16:21

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 107 70 - 130 12/16/24 16:21 Toluene-d8 (Surr) 98 70 - 130 12/16/24 16:21 12/16/24 16:21 4-Bromofluorobenzene (Surr) 97 70 - 130 Dibromofluoromethane (Surr) 100 70 - 130 12/16/24 16:21

Lab Sample ID: LCS 885-17948/12

Matrix: Air

Analysis Batch: 17948

Client Sample ID: Lab Control Sample Prep Type: Total/NA

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.1	19.0		ug/L		94	70 - 130	
Benzene	20.1	21.1		ug/L		105	70 - 130	
Chlorobenzene	20.1	19.7		ug/L		98	70 - 130	
Toluene	20.2	19.7		ug/L		98	70 - 130	
Trichloroethene (TCE)	20.2	18.5		ug/L		92	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: 885-16444-1 DU

Matrix: Air

Analysis Ratch: 17949

Client Sample ID: Influent 12524 Prep Type: Total/NA

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
1,1,1,2-Tetrachloroethane	ND		ND		ug/L		NC	20
1,1,1-Trichloroethane	ND		ND		ug/L		NC	20
1,1,2,2-Tetrachloroethane	ND		ND		ug/L		NC	20
1,1,2-Trichloroethane	ND		ND		ug/L		NC	20
1,1-Dichloroethane	ND		ND		ug/L		NC	20
1,1-Dichloroethene	ND		ND		ug/L		NC	20
1,1-Dichloropropene	ND		ND		ug/L		NC	20
1,2,3-Trichlorobenzene	ND		ND		ug/L		NC	20
1,2,3-Trichloropropane	ND		ND		ug/L		NC	20
1,2,4-Trichlorobenzene	ND		ND		ug/L		NC	20
1,2,4-Trimethylbenzene	ND		ND		ug/L		NC	20
1,2-Dibromo-3-Chloropropane	ND		ND		ug/L		NC	20
1,2-Dibromoethane (EDB)	ND		ND		ug/L		NC	20
1,2-Dichlorobenzene	ND		ND		ug/L		NC	20
1,2-Dichloroethane (EDC)	ND		ND		ug/L		NC	20
1,2-Dichloropropane	ND		ND		ug/L		NC	20
1,3,5-Trimethylbenzene	ND		ND		ug/L		NC	20

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QC Sample Results

Client: Hilcorp Energy Job ID: 885-16444-1

Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-16444-1 DU

Matrix: Air

Analysis Batch: 17948

Client Sample ID: Influent 12524

Prep Type: Total/NA

Analyte	Sample Sample Result Qualifier		DU Qualifier	Unit	D	RPD	RPI Limi
1,3-Dichlorobenzene	ND Guarrier -	ND	- Qualifier	ug/L		<u></u>	2
1,3-Dichloropropane	ND	ND		ug/L		NC	20
1,4-Dichlorobenzene	ND	ND		ug/L		NC	20
1-Methylnaphthalene	ND	ND		ug/L		NC	20
2,2-Dichloropropane	ND	ND		ug/L		NC	. . 2(
2-Butanone	ND	ND ND		ug/L		NC NC	20
2-Chlorotoluene	ND	ND				NC NC	20
2-Hexanone	ND	ND		ug/L		NC	
2-Nethylnaphthalene	ND ND	ND ND		ug/L ug/L		NC NC	20
						NC NC	
4-Chlorotoluene	ND.	ND		ug/L			20
4-Isopropyltoluene	ND	ND		ug/L		NC	20
4-Methyl-2-pentanone	ND	ND		ug/L		NC	20
Acetone	ND	ND		ug/L		NC	20
Benzene	1.1	1.07		ug/L		3	20
Bromobenzene	ND	ND		ug/L		NC	20
Bromodichloromethane	ND	ND		ug/L		NC	20
Dibromochloromethane	ND	ND		ug/L		NC	20
Bromoform	ND	ND		ug/L		NC	20
Bromomethane	ND	ND		ug/L		NC	20
Carbon disulfide	ND	ND		ug/L		NC	20
Carbon tetrachloride	ND	ND		ug/L		NC	20
Chlorobenzene	ND	ND		ug/L		NC	20
Chloroethane	ND	ND		ug/L		NC	20
Chloroform	ND	ND		ug/L		NC	20
Chloromethane	ND	ND		ug/L		NC	20
cis-1,2-Dichloroethene	ND	ND		ug/L		NC	20
cis-1,3-Dichloropropene	ND	ND		ug/L		NC	20
Dibromomethane	ND	ND		ug/L		NC	20
Dichlorodifluoromethane	ND	ND		ug/L		NC	20
Ethylbenzene	ND	ND		ug/L		NC	20
Hexachlorobutadiene	ND	ND		ug/L		NC	20
Isopropylbenzene	ND	ND		ug/L		NC	20
Methyl-tert-butyl Ether (MTBE)	ND	ND		ug/L		NC	20
Methylene Chloride	ND	ND		ug/L		NC	20
n-Butylbenzene	ND	ND		ug/L		NC	20
N-Propylbenzene	ND	ND		ug/L		NC	20
Naphthalene	ND	ND		ug/L		NC	20
sec-Butylbenzene	ND	ND		ug/L		NC	20
Styrene	ND	ND		ug/L		NC	20
tert-Butylbenzene	ND	ND		ug/L		NC	20
Tetrachloroethene (PCE)	ND	ND		ug/L		NC	20
Toluene	1.8	1.68		ug/L		5	20
trans-1,2-Dichloroethene	ND	ND		ug/L ug/L		NC NC	20
trans-1,3-Dichloropropene	ND	ND		ug/L ug/L		NC	
	ND ND	ND ND				NC NC	
Trichloroethene (TCE) Trichlorofluoromethane				ug/L			20
	ND ND	ND		ug/L		NC	20
Vinyl chloride	ND	ND		ug/L		NC	20
Xylenes, Total	0.92	0.845		ug/L		8	20

QC Sample Results

Client: Hilcorp Energy Job ID: 885-16444-1 Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-16444-1 DU Client Sample ID: Influent 12524

Prep Type: Total/NA Matrix: Air Analysis Batch: 17948

DU DU

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130

QC Association Summary

Client: Hilcorp Energy

Job ID: 885-16444-1

Project/Site: Hare 15

GC/MS VOA

Analysis Batch: 17818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16444-1	Influent 12524	Total/NA	Air	8015M/D	
MB 885-17818/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-17818/3	Lab Control Sample	Total/NA	Air	8015M/D	
885-16444-1 DU	Influent 12524	Total/NA	Air	8015M/D	

Analysis Batch: 17948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16444-1	Influent 12524	Total/NA	Air	8260B	
MB 885-17948/13	Method Blank	Total/NA	Air	8260B	
LCS 885-17948/12	Lab Control Sample	Total/NA	Air	8260B	
885-16444-1 DU	Influent 12524	Total/NA	Air	8260B	

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Lab Chronicle

Client: Hilcorp Energy Job ID: 885-16444-1

Project/Site: Hare 15

Client Sample ID: Influent 12524 Lab Sample ID: 885-16444-1

Date Collected: 12/05/24 14:00 Matrix: Air Date Received: 12/06/24 06:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		5	17818	СМ	EET ALB	12/16/24 16:45
Total/NA	Analysis	8260B		5	17948	CM	EET ALB	12/16/24 16:45

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Client: Hilcorp Energy Job ID: 885-16444-1 Project/Site: Hare 15

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
3260B		Air	cis-1,2-Dichloroethene
3260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane

Eurofins Albuquerque

Client: Hilcorp Energy Job ID: 885-16444-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Progra	am	Identification Number	Expiration Date
	•	•	not certified by the governing autho	ority. This list may include analytes
,	does not offer certification	Matrix	Analyta	
Analysis Method 8260B	Prep Method	Air	Analyte Dibromomethane	
8260B		Air	Dichlorodifluoromethane	
8260B		Air	Ethylbenzene	=
			•	
8260B		Air	Hexachlorobutadiene	
8260B		Air	Isopropylbenzene	
8260B		Air	Methylene Chloride	
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene	
8260B		Air	n-Butylbenzene	
8260B		Air	N-Propylbenzene	
8260B		Air	sec-Butylbenzene	
8260B		Air	Styrene	
8260B		Air	tert-Butylbenzene	
8260B		Air	Tetrachloroethene (PCE	Ξ)
8260B		Air	Toluene	
8260B		Air	trans-1,2-Dichloroethen	e
8260B		Air	trans-1,3-Dichloroprope	ne
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	
Oregon	NELAF	o	NM100001	02-25-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte		
8015M/D		Air	Gasoline Range Organics [C6 - C10]		
8260B		Air	1,1,1,2-Tetrachloroethane		
8260B		Air	1,1,1-Trichloroethane		
8260B		Air	1,1,2,2-Tetrachloroethane		
8260B		Air	1,1,2-Trichloroethane		
8260B		Air	1,1-Dichloroethane		
8260B		Air	1,1-Dichloroethene		
8260B		Air	1,1-Dichloropropene		
8260B		Air	1,2,3-Trichlorobenzene		
8260B		Air	1,2,3-Trichloropropane		
8260B		Air	1,2,4-Trichlorobenzene		
8260B		Air	1,2,4-Trimethylbenzene		
8260B		Air	1,2-Dibromo-3-Chloropropane		
8260B		Air	1,2-Dibromoethane (EDB)		
8260B		Air	1,2-Dichlorobenzene		
8260B		Air	1,2-Dichloroethane (EDC)		
8260B		Air	1,2-Dichloropropane		
8260B		Air	1,3,5-Trimethylbenzene		
8260B		Air	1,3-Dichlorobenzene		
8260B		Air	1,3-Dichloropropane		
8260B		Air	1,4-Dichlorobenzene		

Eurofins Albuquerque

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Client: Hilcorp Energy Job ID: 885-16444-1

Project/Site: Hare 15

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progra	Identification Number Expiration Date	
The following analyte:	s are included in this repo	rt. but the laboratory is i	not certified by the governing authority. This list may include anal
	does not offer certification	•	, 3 3 , , ,
Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

Eurofins Albuquerque

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Gillette, WY 307.686.7175 . Helena, MT 406.442.0711

December 13, 2024

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: Quote ID: B15626 B24120686

Project Name: 88501698, Hare 15

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 12/10/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B24120686-001	Influent 12524 (885- 16444-1)	12/05/24 14:00 12/10/24	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist Free Natural Gas Analysis Specific Gravity @ 60/60

ANALYTICAL SUMMARY REPORT

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

Billings, MT 406.252.6325 • Casper, WY 307.235.0515

Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental Project: 88501698, Hare 15 Lab ID: B24120686-001

Client Sample ID: Influent 12524 (885-16444-1)

Report Date: 12/13/24 Collection Date: 12/05/24 14:00 DateReceived: 12/10/24

Matrix: Air

12/12/24 10:03 / jrj

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.80	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Nitrogen	78.03	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Carbon Dioxide	0.16	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Methane	< 0.01	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Ethane	< 0.01	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
n-Pentane	< 0.01	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Hexanes plus	0.01	Mol %		0.01		GPA 2261-13	12/12/24 10:03 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	12/12/24 10:03 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	12/12/24 10:03 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	12/12/24 10:03 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	12/12/24 10:03 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	12/12/24 10:03 / jrj
Hexanes plus	0.004	gpm		0.001		GPA 2261-13	12/12/24 10:03 / jrj
GPM Total	0.004	gpm		0.001		GPA 2261-13	12/12/24 10:03 / jrj
GPM Pentanes plus	0.004	gpm		0.001		GPA 2261-13	12/12/24 10:03 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	12/12/24 10:03 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	12/12/24 10:03 / jrj
Pseudo-critical Pressure, psia	545			1		GPA 2261-13	12/12/24 10:03 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-13	12/12/24 10:03 / jrj
Specific Gravity @ 60/60F	0.999			0.001		D3588-81	12/12/24 10:03 / jrj
Air, % - The analysis was not corrected for air.	99.62			0.01		GPA 2261-13	12/12/24 10:03 / jrj

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior. - GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis

Report RL - Analyte Reporting Limit MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work C	Order: B24120686				Repo	: 12/13/24					
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-13									Batch:	R433886
Lab ID:	B24120686-001ADUP 12 Sample Duplicate			Run: GCNGA-B 241212A				12/12	/24 10:52		
Oxygen			21.0	Mol %	0.01				4.0	20	
Nitrogen			78.9	Mol %	0.01				1.1	20	
Carbon D	ioxide		0.16	Mol %	0.01				0.0	20	
Hydrogen	Sulfide		< 0.01	Mol %	0.01					20	
Methane			< 0.01	Mol %	0.01					20	
Ethane			< 0.01	Mol %	0.01					20	
Propane			< 0.01	Mol %	0.01					20	
Isobutane)		< 0.01	Mol %	0.01					20	
n-Butane			< 0.01	Mol %	0.01					20	
Isopentan	ne		< 0.01	Mol %	0.01					20	
n-Pentane	е		<0.01	Mol %	0.01					20	
Hexanes	plus		0.01	Mol %	0.01				0.0	20	
Lab ID:	LCS121224	11 Lal	ooratory Co	ntrol Sample		Run: GCNGA-B_241212A				12/12	/24 12:50
Oxygen			0.61	Mol %	0.01	122	70	130			
Nitrogen			5.92	Mol %	0.01	99	70	130			
Carbon D	ioxide		0.99	Mol %	0.01	100	70	130			
Methane			74.9	Mol %	0.01	100	70	130			
Ethane			6.03	Mol %	0.01	100	70	130			
Propane			5.03	Mol %	0.01	102	70	130			
Isobutane	•		1.70	Mol %	0.01	85	70	130			
n-Butane			2.00	Mol %	0.01	100	70	130			
Isopentan	ne		1.03	Mol %	0.01	103	70	130			
n-Pentane	е		1.00	Mol %	0.01	100	70	130			
Hexanes	plus		0.79	Mol %	0.01	99	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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Work Order Receipt Checklist

Hall Environmental

B24120686

Login completed by: Crys	tal M. Jones		Date	Received: 12/10/2024
Reviewed by: Icadr	eau		Red	ceived by: CMJ
Reviewed Date: 12/1	1/2024		Car	rier name: FedEx NDA
Shipping container/cooler in good co	ondition?	Yes ✓	No 🗌	Not Present
Custody seals intact on all shipping	container(s)/cooler(s)?	Yes	No 🗌	Not Present ✓
Custody seals intact on all sample b	ottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes ✓	No 🗌	
Chain of custody signed when relind	quished and received?	Yes ✓	No 🗌	
Chain of custody agrees with sampl	e labels?	Yes ✓	No 🗌	
Samples in proper container/bottle?		Yes √	No 🗌	
Sample containers intact?		Yes ✓	No 🗌	
Sufficient sample volume for indicat	ed test?	Yes ✓	No 🗌	
All samples received within holding (Exclude analyses that are consider such as pH, DO, Res Cl, Sulfite, Fe	ed field parameters	Yes 🔽	No 🗌	
Temp Blank received in all shipping	container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temperature:		15.2°C No Ice		
Containers requiring zero headspace bubble that is <6mm (1/4").	e have no headspace or	Yes	No 🗌	No VOA vials submitted
Water - pH acceptable upon receipt	?	Yes	No 🗌	Not Applicable

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

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Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
Billings, MT	Florida (Primary NELAP)	E87668
The second second	Idaho	MT00005
d	Louisiana	05079
ANAB	Montana	CERT0044
AST National Accimination Where	Nebraska	NE-OS-13-04
TESTING LABORATORY	Nevada	NV-C24-00250
A SCORE	North Dakota	R-007
	National Radon Proficiency	109383-RMP
700	Oregon	4184
AGONATOR.	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
asper, WY	Montana	CERT0002
No acceso	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
SARORATOR'S	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
illette, WY	US EPA Region VIII	WY00006
	Colorado	MT00945
lelena, MT	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Eurofins Albuquerque 4901 Hawkins NE Albuquerque, NM 87109 Phone: 505-345-3975 Fax: 505-345-4107		Chain of Custody Record	Record		💸 eurofins	Environment Testing
Client Information (Sub Contract Lab)	Sampler: N/A	Lab	Lab PM: Garcia, Michelle	Carrier Tracking No(s):	COC No:	
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: miche	E-Mail: michelle.garcia@et.eurofinsus.com	State of Origin:	Page:	
Company. Energy Laboratories, Inc.			Accreditations Required (See note): NELAP - Oregon: State - New Mexico		100 by:	
Address: 1120 South 27th Street,	Due Date Requested: 12/13/2024		Apply Carry	Analysis Dominated	Preservation Codes	:\$8
City. Billings State, Zip. MT 59101	TAT Requested (days): N/A					
Phone: 406-252-6325(Tel)	PO#: N/A		(c			
Emait: N/A	WO#: N/A		(ON		•	
Project Name; Hare 15	Project #: 88501698		10 86		nenis	
Site: N/A	SSOW#: N/A		sp (X		ofter:	
Sample Identification - Client ID /I ah ID)	0		eid Filterad 3 erform MS/M erform BS/Bsed Gase			
Transfer of the second	X	Preservation Code:	d X			Special Instructions/Note:
Influent 12524 (885-16444-1)		G Air	×		See Attached Instructions	ctions
	Mountain					
					W412.0686	98
tote. Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This samples must be shipped back to the Curronner Trinsing South Central, to far analysis/Assistmatrix being analyzed, the samples must be shipped back to the Curronner Trinsing South Central, LLC laboratory or other instructions will be provided. Any changes to	vironment Testing South Central, LLC places the contral above for analysis/tests/matrix being analyz South Central, LLC attention immediately, if all requ	wnership of method, a sed, the samples must i	nalyte & accreditation compliance upon c	ur subcontract laboratories. This nent Testing South Central, LLC is in of Custody attention to going and in of Custody attention to going a social activities.	sample shipment is forwarded under chooratory or other instructions will be pr	nain-of-custody. If the ovided, Any changes to
Possible Hazard Identification			Sample Dienoeal / A for m	in or custody attesting to said con	pliance to Eurotins Environment Testin	ng South Central, LLC.
Jnconfirmed			Return To Client	Disposal By Lab	Return To Client Disposal By Lab	onth) Months
Jeliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	lirements:		
empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	ıt	
elinquished by:	Date/Time /2/9/24	Company	Received by:	Date/Time		Company
telinquished by:	Date/Time:	Company	Received by:	Date/Time:		Company
- 1	Date/Time:	Company	Received by:	a Aws MILE	YN MEE	Company
Custody Seals Intact: Custody Seal No.:			Cooler Temperature(s) (C and Other Remarks			
		1		The state of the s	A Comment of the Comm	Ver: 10/10/2024

ICOC No: 885-3073

Containers

Container Type Tedlar Bag 1L Count

Preservative None

Method Comments Fixed Gases Method Description SUB (Fixed Gases)/ Fixed Gases Subcontract Method Instructions
Sample IDs Method Method

A SUBCONTRACT SUB (Method SUBCONTRACT

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-16444-1

Login Number: 16444 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

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

Eurofins Albuquerque

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APPENDIX D

Groundwater Laboratory Analytical Reports

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

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JOB DESCRIPTION

Hare 15

JOB NUMBER

885-15897-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

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Authorized for release by Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com (505)345-3975

Page 2 of 28 12/3/2024

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Client: Hilcorp Energy
Laboratory Job ID: 885-15897-1
Project/Site: Hare 15

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Lab Chronicle	23
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Chain of Custody	26
Receipt Checklists	28

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Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-15897-1

Project/Site: Hare 15

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

The sample was received with pH>2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

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Case Narrative

Client: Hilcorp Energy Job ID: 885-15897-1
Project: Hare 15

Job ID: 885-15897-1 Eurofins Albuquerque

Job Narrative 885-15897-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 11/26/2024 6:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

Receipt Exceptions

For samples 2,3,&6, the preservative was listed as HCL but the VOAs arrived unpreserved. With those being unpreserved, samples were now received with less than 48hr hold time remaining.

MW-19 (885-15897-2), MW-20 (885-15897-3) and MW-26 (885-15897-6)

GC/MS VOA

Method 8260B: The following samples were diluted due to the nature of the sample matrix: MW-06 (885-15897-1), MW-23 (885-15897-5) and MW-29 (885-15897-7) at 5.0, 2.0 and 2.0. Elevated reporting limits (RLs) are provided.

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

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Client: Hilcorp Energy Project/Site: Hare 15

Client Sample ID: MW-06

Lab Sample ID: 885-15897-1

Matrix: Water

Date Collected: 11/21/24 13:00 Date Received: 11/26/24 06:45

Lab	Sam	pie	:טו	885-1	589	-1
				Matui	\A/a	

Method: SW846 8260B - Volati	ile Organic Compo	ounds (GC/	MS)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	ug/L			11/27/24 02:05	5
Ethylbenzene	ND		5.0	ug/L			11/27/24 02:05	5
Toluene	ND		5.0	ug/L			11/27/24 02:05	5
Xylenes, Total	ND		7.5	ug/L			11/27/24 02:05	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		-		11/27/24 02:05	5
4-Bromofluorobenzene (Surr)	90		70 - 130				11/27/24 02:05	5
Dibromofluoromethane (Surr)	109		70 - 130				11/27/24 02:05	5
Toluene-d8 (Surr)	92		70 - 130				11/27/24 02:05	5

Client: Hilcorp Energy Project/Site: Hare 15

Client Sample ID: MW-19

Lab Sample ID: 885-15897-2

Date Collected: 11/21/24 15:45 Date Received: 11/26/24 06:45 Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	P2	2.0	ug/L			12/02/24 17:24	2
Ethylbenzene	ND	P2	2.0	ug/L			12/02/24 17:24	2
Toluene	ND	P2	2.0	ug/L			12/02/24 17:24	2
Xylenes, Total	ND	P2	3.0	ug/L			12/02/24 17:24	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	P2	70 - 130		-		12/02/24 17:24	2
4-Bromofluorobenzene (Surr)	96	P2	70 - 130				12/02/24 17:24	2
Dibromofluoromethane (Surr)	107	P2	70 - 130				12/02/24 17:24	2
Toluene-d8 (Surr)	97	P2	70 - 130				12/02/24 17:24	2

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Client: Hilcorp Energy Project/Site: Hare 15

Client Sample ID: MW-20 Date Collected: 11/21/24 15:00

Date Received: 11/26/24 06:45

Lab Sample ID: 885-15897-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) Result Qualifier RLUnit D Prepared Analyzed Dil Fac 500 Benzene 10000 ug/L 11/27/24 02:54 500 Ethylbenzene 800 500 ug/L 11/27/24 02:54 500 **Toluene** 8100 500 ug/L 11/27/24 02:54 500 750 11/27/24 02:54 ug/L 500 **Xylenes, Total** 6300 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 112 70 - 130 11/27/24 02:54 70 - 130 4-Bromofluorobenzene (Surr) 96 11/27/24 02:54 500 70 - 130 500 Dibromofluoromethane (Surr) 106 11/27/24 02:54 Toluene-d8 (Surr) 91 70 - 130 11/27/24 02:54 500

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Client: Hilcorp Energy Project/Site: Hare 15

Client Sample ID: MW-22

Lab Sample ID: 885-15897-4

Matrix: Water

Date Collected: 11/21/24 17:20 Date Received: 11/26/24 06:45

Method: SW846 8260B -	Volatile Organic Comp	ounds (GC/	MS)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	24		5.0	ug/L			12/02/24 17:48	5
Ethylbenzene	110		5.0	ug/L			12/02/24 17:48	5
Toluene	ND		5.0	ug/L			12/02/24 17:48	5
Xylenes, Total	ND		7.5	ug/L			12/02/24 17:48	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	70 - 130		12/02/24 17:48	5
4-Bromofluorobenzene (Surr)	104	70 - 130		12/02/24 17:48	5
Dibromofluoromethane (Surr)	109	70 - 130		12/02/24 17:48	5
Toluene-d8 (Surr)	103	70 - 130		12/02/24 17:48	5
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Client: Hilcorp Energy Project/Site: Hare 15

Client Sample ID: MW-23

Lab Sample ID: 885-15897-5

Matrix: Water

Date Collected: 11/22/24 12:50

Dil Fac 5

Date Received: 11/26/24 06:45

Method: SW846 8260B - Volati	le Organic Compo	ounds (GC/	MS)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	ug/L			11/27/24 03:43	2
Ethylbenzene	ND		2.0	ug/L			11/27/24 03:43	2
Toluene	ND		2.0	ug/L			11/27/24 03:43	2
Xylenes, Total	ND		3.0	ug/L			11/27/24 03:43	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		-		11/27/24 03:43	2
4-Bromofluorobenzene (Surr)	92		70 - 130				11/27/24 03:43	2
Dibromofluoromethane (Surr)	110		70 - 130				11/27/24 03:43	2
Toluene-d8 (Surr)	93		70 - 130				11/27/24 03:43	2

Client: Hilcorp Energy Project/Site: Hare 15

Toluene-d8 (Surr)

Client Sample ID: MW-26

Lab Sample ID: 885-15897-6

Matrix: Water

11/27/24 04:08

Date Collected: 11/21/24 16:15 Date Received: 11/26/24 06:45

Method: SW846 8260B - Volati	le Organic Compounds (G	C/MS)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13000	500	ug/L			11/27/24 04:08	500
Ethylbenzene	810	500	ug/L			11/27/24 04:08	500
Toluene	31000	500	ug/L			11/27/24 04:08	500
Xylenes, Total	12000	750	ug/L			11/27/24 04:08	500
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	70 - 130		-		11/27/24 04:08	500
4-Bromofluorobenzene (Surr)	99	70 - 130				11/27/24 04:08	500
Dibromofluoromethane (Surr)	105	70 - 130				11/27/24 04:08	500

70 - 130

93

Client Sample Results

Client: Hilcorp Energy Job ID: 885-15897-1

Project/Site: Hare 15

Client Sample ID: MW-29 Lab Sample ID: 885-15897-7

Date Collected: 11/21/24 16:45 Matrix: Water

Date Received: 11/26/24 06:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	ug/L			11/27/24 04:32	2
Ethylbenzene	ND		2.0	ug/L			11/27/24 04:32	2
Toluene	ND		2.0	ug/L			11/27/24 04:32	2
Xylenes, Total	ND		3.0	ug/L			11/27/24 04:32	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		-		11/27/24 04:32	2
4-Bromofluorobenzene (Surr)	92		70 - 130				11/27/24 04:32	2
Dibromofluoromethane (Surr)	106		70 - 130				11/27/24 04:32	2
Toluene-d8 (Surr)	92		70 - 130				11/27/24 04:32	2

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Client: Hilcorp Energy Job ID: 885-15897-1

Project/Site: Hare 15

Client Sample ID: MW-30 Lab Sample ID: 885-15897-8

Date Collected: 11/22/24 11:30 Matrix: Water

Date Received: 11/26/24 06:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	460		5.0	ug/L			11/27/24 04:57	5
Ethylbenzene	990		50	ug/L			11/27/24 14:37	50
Toluene	30		5.0	ug/L			11/27/24 04:57	5
Xylenes, Total	5400		75	ug/L			11/27/24 14:37	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		-		11/27/24 04:57	5
1,2-Dichloroethane-d4 (Surr)	107		70 - 130				11/27/24 14:37	50
4-Bromofluorobenzene (Surr)	99		70 - 130				11/27/24 04:57	5
4-Bromofluorobenzene (Surr)	100		70 - 130				11/27/24 14:37	50
Dibromofluoromethane (Surr)	98		70 - 130				11/27/24 04:57	5
Dibromofluoromethane (Surr)	101		70 - 130				11/27/24 14:37	50
Toluene-d8 (Surr)	113		70 - 130				11/27/24 04:57	5
Toluene-d8 (Surr)	97		70 - 130				11/27/24 14:37	50

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Client: Hilcorp Energy Project/Site: Hare 15

Client Sample ID: MW-31 Date Collected: 11/22/24 12:15

Date Received: 11/26/24 06:45

Lab Sample ID: 885-15897-9

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) Result Qualifier RLUnit D Prepared Analyzed Dil Fac 1.0 Benzene ND ug/L 11/27/24 00:03 ND Ethylbenzene 1.0 ug/L 11/27/24 00:03 Toluene ND 1.0 ug/L 11/27/24 00:03 Xylenes, Total ND 1.5 ug/L 11/27/24 00:03 %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 112 70 - 130 11/27/24 00:03 70 - 130 4-Bromofluorobenzene (Surr) 90 11/27/24 00:03 109 70 - 130 11/27/24 00:03 Dibromofluoromethane (Surr) Toluene-d8 (Surr) 92 70 - 130 11/27/24 00:03

Client: Hilcorp Energy Project/Site: Hare 15

Client Sample ID: MW-33 Date Collected: 11/22/24 15:50 Lab Sample ID: 885-15897-10

Matrix: Water

Date Received: 11/26/24 06:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			11/27/24 00:28	1
Ethylbenzene	ND		1.0	ug/L			11/27/24 00:28	1
Toluene	ND		1.0	ug/L			11/27/24 00:28	1
Xylenes, Total	ND		1.5	ug/L			11/27/24 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		-		11/27/24 00:28	1
4-Bromofluorobenzene (Surr)	91		70 - 130				11/27/24 00:28	1
Dibromofluoromethane (Surr)	109		70 - 130				11/27/24 00:28	1
Toluene-d8 (Surr)	92		70 - 130				11/27/24 00:28	1

Client: Hilcorp Energy Project/Site: Hare 15

Toluene-d8 (Surr)

Client Sample ID: MW-34

Lab Sample ID: 885-15897-11

11/27/24 00:52

Matrix: Water

Date Collected: 11/22/24 15:00 Date Received: 11/26/24 06:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			11/27/24 00:52	1
Ethylbenzene	ND		1.0	ug/L			11/27/24 00:52	1
Toluene	ND		1.0	ug/L			11/27/24 00:52	1
Xylenes, Total	ND		1.5	ug/L			11/27/24 00:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		-		11/27/24 00:52	1
4-Bromofluorobenzene (Surr)	89		70 - 130				11/27/24 00:52	1
Dibromofluoromethane (Surr)	109		70 - 130				11/27/24 00:52	1

70 - 130

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Client Sample Results

Client: Hilcorp Energy Job ID: 885-15897-1

Project/Site: Hare 15

Client Sample ID: MW-35 Lab Sample ID: 885-15897-12

Date Collected: 11/22/24 14:00 Matrix: Water

Date Received: 11/26/24 06:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			11/27/24 01:16	1
Ethylbenzene	ND		1.0	ug/L			11/27/24 01:16	1
Toluene	ND		1.0	ug/L			11/27/24 01:16	1
Xylenes, Total	ND		1.5	ug/L			11/27/24 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			70 - 130		-		11/27/24 01:16	1
4-Bromofluorobenzene (Surr)	91		70 - 130				11/27/24 01:16	1
Dibromofluoromethane (Surr)	108		70 - 130				11/27/24 01:16	1
Toluene-d8 (Surr)	92		70 - 130				11/27/24 01:16	1

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Client Sample Results

Client: Hilcorp Energy Job ID: 885-15897-1

Project/Site: Hare 15

Client Sample ID: MW-38 Lab Sample ID: 885-15897-13

Date Collected: 11/22/24 11:00 Matrix: Water

Date Received: 11/26/24 06:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			11/27/24 01:41	1
Ethylbenzene	ND		1.0	ug/L			11/27/24 01:41	1
Toluene	ND		1.0	ug/L			11/27/24 01:41	1
Xylenes, Total	ND		1.5	ug/L			11/27/24 01:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 130		-		11/27/24 01:41	1
4-Bromofluorobenzene (Surr)	89		70 - 130				11/27/24 01:41	1
Dibromofluoromethane (Surr)	109		70 - 130				11/27/24 01:41	1
Toluene-d8 (Surr)	91		70 - 130				11/27/24 01:41	

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Job ID: 885-15897-1

Client: Hilcorp Energy Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-16626/35

Matrix: Water Analysis Batch: 16626

		MB	MB						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	ND		1.0	ug/L			11/26/24 23:39	1
	Ethylbenzene	ND		1.0	ug/L			11/26/24 23:39	1
	Toluene	ND		1.0	ug/L			11/26/24 23:39	1
	Xylenes, Total	ND		1.5	ug/L			11/26/24 23:39	1
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ı		MB	MB				
	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	108		70 - 130		11/26/24 23:39	1
	4-Bromofluorobenzene (Surr)	90		70 - 130		11/26/24 23:39	1
	Dibromofluoromethane (Surr)	108		70 - 130		11/26/24 23:39	1
	Toluene-d8 (Surr)	94		70 - 130		11/26/24 23:39	1

Lab Sample ID: LCS 885-16626/34

Matrix: Water

Analysis Batch: 16626

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	20.1	23.6		ug/L		117	70 - 130	
Toluene	20.2	20.0		ug/L		99	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			70 - 130
4-Bromofluorobenzene (Surr)	89		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Lab Sample ID: 885-15897-9 MS Client Sample ID: MW-31 **Matrix: Water**

Analysis Batch: 16626

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		20.1	23.6		ug/L		117	70 - 130	
Toluene	ND		20.2	19.7		ug/L		98	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
Toluene-d8 (Surr)	91		70 - 130

Lab Sample ID: 885-15897-9 MSD

Matrix: Water

Analysis Batch: 16626

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		20.1	22.8		ug/L		114	70 - 130	3	20
Toluene	ND		20.2	19.0		ug/L		94	70 - 130	4	20

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Client Sample ID: MW-31

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Hilcorp Energy Project/Site: Hare 15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-15897-9 MSD

Matrix: Water

Analysis Batch: 16626

Client Sample ID: MW-31

Prep Type: Total/NA

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Lab Sample ID: MB 885-16752/6 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 16752

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			11/27/24 12:59	1
Ethylbenzene	ND		1.0	ug/L			11/27/24 12:59	1
Toluene	ND		1.0	ug/L			11/27/24 12:59	1
Xylenes, Total	ND		1.5	ug/L			11/27/24 12:59	1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105	70 - 130		11/27/24 12:59	1
4-Bromofluorobenzene (Surr)	89	70 - 130		11/27/24 12:59	1
Dibromofluoromethane (Surr)	106	70 - 130		11/27/24 12:59	1
Toluene-d8 (Surr)	94	70 - 130		11/27/24 12:59	1

Lab Sample ID: STOBLK 885-16752/9 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 16752

	STOBLK	STOBLK						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			11/27/24 14:12	1
Ethylbenzene	ND		1.0	ug/L			11/27/24 14:12	1
Toluene	ND		1.0	ug/L			11/27/24 14:12	1
Xylenes, Total	ND		1.5	ug/L			11/27/24 14:12	1

		STOBLK	STOBLK				
Surrogate	•	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlo	roethane-d4 (Surr)	109		70 - 130		11/27/24 14:12	1
4-Bromofl	uorobenzene (Surr)	91		70 - 130		11/27/24 14:12	1
Dibromofl	uoromethane (Surr)	109		70 - 130		11/27/24 14:12	1
Toluene-d	8 (Surr)	92		70 - 130		11/27/24 14:12	1

Lab Sample ID: LCS 885-16752/5 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 16752

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene		20.1	22.7		ug/L		113	70 - 130	
Toluene		20.2	19.6		ug/L		97	70 - 130	
	LCS LCS								

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 108 70 - 130

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Client: Hilcorp Energy Project/Site: Hare 15

Job ID: 885-15897-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 885-16752/5

Matrix: Water

Analysis Batch: 16752

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 92 70 - 130 Dibromofluoromethane (Surr) 106 70 - 130 Toluene-d8 (Surr) 93 70 - 130

Lab Sample ID: MB 885-16833/11 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 16833

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Allaly2ca E	Dil Fac
12/02/24 16:35	1
12/02/24 16:35	1
12/02/24 16:35	1
12/02/24 16:35	1
12	2/02/24 16:35 2/02/24 16:35 2/02/24 16:35

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1,2-Dichloroethane-d4 (Surr) 105 70 - 130 12/02/24 16:35 4-Bromofluorobenzene (Surr) 70 - 130 93 12/02/24 16:35 Dibromofluoromethane (Surr) 106 70 - 130 12/02/24 16:35 Toluene-d8 (Surr) 97 70 - 130 12/02/24 16:35

Lab Sample ID: LCS 885-16833/10

Matrix: Water

Analysis Batch: 16833

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	20.1	23.8		ug/L		119	70 - 130		_
Toluene	20.2	20.7		ug/L		102	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	109		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Eurofins Albuquerque

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QC Association Summary

Client: Hilcorp Energy Job ID: 885-15897-1

Project/Site: Hare 15

GC/MS VOA

Analysis Batch: 16626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15897-1	MW-06	Total/NA	Water	8260B	
885-15897-3	MW-20	Total/NA	Water	8260B	
885-15897-5	MW-23	Total/NA	Water	8260B	
885-15897-6	MW-26	Total/NA	Water	8260B	
885-15897-7	MW-29	Total/NA	Water	8260B	
885-15897-8	MW-30	Total/NA	Water	8260B	
885-15897-9	MW-31	Total/NA	Water	8260B	
885-15897-10	MW-33	Total/NA	Water	8260B	
885-15897-11	MW-34	Total/NA	Water	8260B	
885-15897-12	MW-35	Total/NA	Water	8260B	
885-15897-13	MW-38	Total/NA	Water	8260B	
MB 885-16626/35	Method Blank	Total/NA	Water	8260B	
LCS 885-16626/34	Lab Control Sample	Total/NA	Water	8260B	
885-15897-9 MS	MW-31	Total/NA	Water	8260B	
885-15897-9 MSD	MW-31	Total/NA	Water	8260B	

Analysis Batch: 16752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15897-8	MW-30	Total/NA	Water	8260B	
MB 885-16752/6	Method Blank	Total/NA	Water	8260B	
STOBLK 885-16752/9	Method Blank	Total/NA	Water	8260B	
LCS 885-16752/5	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 16833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15897-2	MW-19	Total/NA	Water	8260B	
885-15897-4	MW-22	Total/NA	Water	8260B	
MB 885-16833/11	Method Blank	Total/NA	Water	8260B	
LCS 885-16833/10	Lab Control Sample	Total/NA	Water	8260B	

Eurofins Albuquerque

Client: Hilcorp Energy Project/Site: Hare 15

Client Sample ID: MW-06 Date Collected: 11/21/24 13:00 Lab Sample ID: 885-15897-1

Matrix: Water

Date Received: 11/26/24 06:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		5	16626	CM	EET ALB	11/27/24 02:05

Lab Sample ID: 885-15897-2

Matrix: Water

Client Sample ID: MW-19 Date Collected: 11/21/24 15:45 Date Received: 11/26/24 06:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B			16833	СМ	EET ALB	12/02/24 17:24

Client Sample ID: MW-20 Lab Sample ID: 885-15897-3

Date Collected: 11/21/24 15:00 **Matrix: Water** Date Received: 11/26/24 06:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		500	16626	CM	EET ALB	11/27/24 02:54

Client Sample ID: MW-22 Lab Sample ID: 885-15897-4

Date Collected: 11/21/24 17:20 **Matrix: Water**

Date Received: 11/26/24 06:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		5	16833	CM	EET ALB	12/02/24 17:48

Client Sample ID: MW-23 Lab Sample ID: 885-15897-5

Date Collected: 11/22/24 12:50 **Matrix: Water** Date Received: 11/26/24 06:45

Batch Batch Dilution Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA Analysis 8260B 16626 CM **EET ALB** 11/27/24 03:43

Client Sample ID: MW-26 Lab Sample ID: 885-15897-6

Date Collected: 11/21/24 16:15 **Matrix: Water**

Date Received: 11/26/24 06:45

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Type	Method	Run	Factor	Number Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		500	16626 CM	FFTALB	11/27/24 04:08

Client Sample ID: MW-29 Lab Sample ID: 885-15897-7

Date Collected: 11/21/24 16:45 **Matrix: Water**

Date Received: 11/26/24 06:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B			16626	CM	FFT ALB	11/27/24 04:32

Lab Sample ID: 885-15897-8 **Matrix: Water**

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 885-15897-12

Client Sample ID: MW-30

Client: Hilcorp Energy Project/Site: Hare 15

Date Collected: 11/22/24 11:30 Date Received: 11/26/24 06:45

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number Analyst Lab or Analyzed 11/27/24 04:57 Total/NA Analysis 8260B 5 16626 СМ EET ALB Total/NA Analysis 8260B 50 16752 CM **EET ALB** 11/27/24 14:37

Client Sample ID: MW-31 Lab Sample ID: 885-15897-9

Date Collected: 11/22/24 12:15 Date Received: 11/26/24 06:45

Batch Dilution Batch Batch Prepared Number Prep Type Туре Method Run Factor Analyst Lab or Analyzed 8260B СМ EET ALB 11/27/24 00:03 Total/NA Analysis 16626

Client Sample ID: MW-33 Lab Sample ID: 885-15897-10

Date Collected: 11/22/24 15:50 Date Received: 11/26/24 06:45

Batch Batch Dilution Batch Prepared Prep Type Method Run Factor **Number Analyst** or Analyzed Type Lab 11/27/24 00:28 Total/NA 8260B СМ EET ALB Analysis 16626

Client Sample ID: MW-34 Lab Sample ID: 885-15897-11

Date Collected: 11/22/24 15:00 Date Received: 11/26/24 06:45

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA Analysis 8260B 16626 СМ EET ALB 11/27/24 00:52

Client Sample ID: MW-35 Date Collected: 11/22/24 14:00 Date Received: 11/26/24 06:45

Batch Batch Dilution Batch Prepared Prep Type Method Factor Number Analyst Lab or Analyzed Туре Run 11/27/24 01:16 8260B 16626 СМ EET ALB Total/NA Analysis

Client Sample ID: MW-38 Lab Sample ID: 885-15897-13

Date Collected: 11/22/24 11:00 Date Received: 11/26/24 06:45

Batch Batch Dilution Batch Prepared Method Factor Number Analyst or Analyzed **Prep Type** Type Run Lab 11/27/24 01:41 Total/NA Analysis 8260B 16626 CM EET ALB

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Hare 15
Job ID: 885-15897-1

Laboratory: Eurofins Albuquerque

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

Authority	Progra	m	Identification Number	Expiration Date
New Mexico	State		NM9425, NM0901	02-26-25
• •	•	the laboratory is not certif	ied by the governing authority. This	list may include analyte
for which the agency do Analysis Method	pes not offer certification. Prep Method	Matrix	Analyte	
8260B		Water	Benzene	
8260B		Water	Ethylbenzene	
8260B		Water	Toluene	
8260B		Water	Xylenes, Total	
Oregon	NELAP)	NM100001	02-26-25

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885-15897 COC HALL ENVIRONMENTAL if necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratones. This serves as notice of this possibility. Any sub-contracted data will be dearly notated on the analytical report ANALYSIS LABOR 4901 Hawkins NE - Albuquerque, NM 8710 Fax 505-345-4107 www.hallenvironmental.com **Analysis Request** Remarks: Special Pricing See Andy Tel. 505-345-3975 J 3 3 3 BTEX Method 8260 ¥ × × × × × Shid 100 HEAL No. 75/24 3 5 2 Brandon Sinclair to □ Rush Killough Container Type Preservative and # 幸 L L SE 4 ¥ 돈 H H 되 되 건 되 Hare 15 도 당 Cooler Temp(including CF): j. ₩ Yes Type Turn-Around Time: Project Manager: (3) 40ml VOA Project Name: X Standard Mitch # of Coolers: Received by: Project #: Sampler: On Ice: Chain-of-Custody Record Mailing Address: 382 Road 3100 Aztec, NM 87410 □ Level 4 (Full Validation) Billing Address: PO Box 61529 Houston, TX 77208 Matrix Sample Name MW-06 MW-19 NAV-08 MW-14 MW-23 **60-WW** MW-11 MW-15 MW-20 MW-22 Brandon.Sinclair@hilcorp.com MW-10 ☐ Az Compliance Hilcorp Farmington NM 505-486-9543 Relinquished by: □ Other Water Time 1300 1720 1500 QA/QC Package: email or Fax#: EDD (Type) 1545 Accreditation: □ Standard □ NELAC Phone #: 1/2/50/17 Client: Date 17-11 1-7 11-2 1-7

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12/3/2024

Rg 20t 2 **ANALYSIS LABORATORY** HALL ENVIRONMENTAL if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com Analysis Request Remarks: Special Pricing See Andy Tel. 505-345-3975 3 **BLEX Method 8260** × × × × × × × × 1/25/21 1602 T W HEAL No. Time 0 7 1 3 5 200 Cooler Temp(including CF): 1.1 ± 0 - 1 Brandon Sinclair - Rush Container Type Preservative 100 건 \$ 건 건 건 건 고 THE PERSON 되 Hare 15 건 ¥ Yes Via: counc Type Turn-Around Time: Project Manager: (3) 40ml VOA Project Name: X Standard # of Coolers: Received by Received by Project #; Sampler: On Ice: # pue Chain-of-Custody Record Mailing Address: 382 Road 3100 Aztec, NM 87410 ☐ Level 4 (Full Validation) Billing Address: PO Box 61529 Houston, TX 77208 Matrix Sample Name MW-35 MW-24 MW-26 MW-29 MW-30 MW-31 MW-33 MW-34 MW-36 16-WM MW-38 Brandon.Sinclair@hilcorp.com しるだ MATI ☐ Az Compliance den Hilcorp Farmington NM 505-486-9543 Relinquished by: Relinquished by: □ Other Water 1500 | Water 11007 W 5491 QA/QC Package: Time 1,400 0551 email or Fax#: EDD (Type) 1100 N Accreditation: (130 Time: Time: □ Standard □ NELAC Phone #: 11-22 11 25 24 11/2/2 Client Date 0 28 11-22 11-22 (-1) 11-21 1-77 17-1 Date:

12/3/2024

12/3/2024

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-15897-1

Login Number: 15897 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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

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Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 419625

CONDITIONS

Operator:	OGRID:		
HILCORP ENERGY COMPANY	372171		
1111 Travis Street	Action Number:		
Houston, TX 77002	419625		
	Action Type:		
	[REPORT] Alternative Remediation Report (C-141AR)		

CONDITIONS

Created By	Condition	Condition Date
nvele	SVE reviewed - 1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by April 15, 2025.	1/16/2025