

State of New Mexico
Energy, Minerals and Natural Resources Department

Michele Lujan Grisham
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Deputy Secretary

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Division Director
Oil Conservation Division



December 9, 2025

Kate Kaufman – Senior Environmental Specialist
Hilcorp Energy Company
1111 Travis Street
Houston, TX 77002

RE: Conditional Approval of Soil Vapor Extraction (SVE) Remediation Method for SAN JUAN 28 6 UNIT #093; Incident #: nAPP2436230674; Application ID: 498522

Mr. Hyde,

The Oil Conservation Division (OCD) has reviewed and approved the subject work plan with the following conditions;

1. Hilcorp Energy Company's (Hilcorp) SVE system must be designed to have a minimum of 90% operational runtime, 24/7, start to finish. Operation & maintenance (O&M) or any matter that requires a temporary downtime should be excluded within the applicable runtime.
2. On-site analog or digital runtime counter must be installed and viewable to OCD personnel. Any alternative method must be explained and pre-approved by OCD.
3. The following field data measurement parameters will be required and reported (prior to reaching vacuum pump);
 - a. Total Extracted Flow Rate via a Flow Meter
 - b. Flow Rates from each vapor extraction point/well (VEP)
 - c. Volatile Organic Compound (VOC) Concentrations for each VEP and/or VEP cluster being implemented via Handheld Gas Analyzer (e.g. – Photo Ionization Detector (PID))
 - d. Record vacuum pressure at each VEP and/or VEP cluster being implemented
 - e. Oxygen (O₂) and carbon di-oxide (CO₂) levels via hand-held analyzers from each VEP and/or VEP cluster being implemented, prior to reaching vacuum pump and at discharge orifice or vent stack
4. The following minimum timeline will be required for the above data recordings;
 - a. Daily for the first week
 - b. Weekly for the next three (3) months
 - c. Monthly thereafter for the first calendar year
 - d. Then contingent upon the recorded data output
5. Any water condensation will be categorized as oil field waste and must be disposed of accordingly. System modifications to address increased water collection and disposal must be pre-approved by OCD.
6. Extracted vapor sampling (prior to reaching vacuum pump) for laboratory testing will be required as follows;
 - a. Approximately 15-30 minutes and approximately 8-10 hours after startup (or at the end of the same day if initial sample collected in early morning), one full round of sampling for constituents noted in b, c, & d below
 - b. BTEX per US EPA Method 8021B or 8260B
 - c. TPH per US EPA Method 8015M
 - d. O₂ and CO₂

December 9, 2025

Page 2

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7. The following timeline will be required for the above laboratory sampling elements;
 - a. Weekly - next three (3) weeks (first month)
 - b. Bi-weekly (twice a month) – next two (2) months (first quarter)
 - c. Bi-Monthly (every other month) - next nine (9) months (first year)
 - d. Quarterly – Year #2 until diminishing returns has been consistently documented
8. Hilcorp must submit to OCD quarterly reports for the first 2 years of operation. Reports are due no later than the 15th in the months of April (first quarter), July (second quarter), October (third quarter), and January (fourth quarter), then bi-annual thereafter (1st & 3rd or 2nd & 4th quarters), detailing the following;
 - a. Summary of remediation activity
 - b. Chart of O₂ & CO₂ levels over time
 - c. SVE runtime
 - d. SVE mass removal
 - e. Product recovery, if applicable
 - f. Laboratory air sample analysis, if applicable
9. Hilcorp must notify OCD of its initial system startup which is required within 120 days of this approval. If this cannot be achieved, Hilcorp must verify the delay within its request for a time extension.
10. Hilcorp must submit to OCD a closure plan prior to initiating confirmation sampling for final remediation termination.

These conditions by the OCD does not relieve Hilcorp of responsibility for compliance with any federal, state, or local law.

If you have any questions, please contact Scott Rodgers, Senior Environmental Scientist, at (505) 469-1830 or by email at scott.rodgers@emnrd.nm.gov.

Respectfully,
Scott

Mike Bratcher
Michael Bratcher
Incident Group Supervisor
(575) 626-0857

Scott Rodgers
Scott Rodgers
Senior Environmental Scientist
(505) 469-1830



August 22, 2025

New Mexico Oil Conservation Division

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

Re: Remediation Work Plan

San Juan 28-6 Unit 93
Hilcorp Energy Company
NMOCD Incident No: nAPP2436230674

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Work Plan* (Work Plan) for a release at the San Juan 28-6 Unit 93 natural gas production well (Site). The Site is located on private land with Federal mineral ownership in, Unit M, Section 36, Township 28 North, Range 06 West, Rio Arriba County, New Mexico (Figure 1). This Work Plan includes a summary of delineation activities performed at the Site and the proposed remediation of impacted soil originating from the release.

SITE BACKGROUND

On December 26, 2024, Hilcorp personnel discovered a release of approximately 20.88 barrels (bbls) of condensate and 5.8 bbls of produced water at the Site. During a routine inspection, a Hilcorp operator found a water drain valve had failed due to freezing temperatures. In response, the operator shut in the oil dump and gauged the tank, which was empty except for approximately 3 inches of ice. Stained soil was observed around the base of the tank; however, all fluids remained contained within the secondary containment system. No free liquid was recoverable. Hilcorp submitted a Notification of Release to the New Mexico Oil Conservation Division (NMOCD) on December 27, 2024, and the Site was assigned Incident Number nAPP2436230674.

SITE CHARACTERIZATION

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

GEOLOGY AND HYDROGEOLOGY

The Site is located on Tertiary (Eocene) age San Jose Formation and is underlain by the Nacimiento Geologic Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the San Jose Formation is composed of interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about

2,700 feet. The hydrologic properties of the San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

POTENTIAL SENSITIVE RECEPTORS

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

The nearest significant watercourse to the Site, which is also identified as a wetland, is a dry wash located approximately 220 feet south of the well pad. To assess Site-specific depth-to-groundwater, several boreholes were advanced at the Site to a depth greater than 55 feet below ground surface (bgs). Upon completion of the boreholes, Soil Vapor Extraction (SVE) wells were installed and allowed to equilibrate for 72 hours. A water-level indicator was used to assess for the presence or absence of groundwater on July 22, 2025. Groundwater was not encountered in any of the boreholes, indicating the depth to groundwater beneath the Site is greater than 50 feet bgs. The nearest fresh water well is NMOSE permitted well SJ-04031, located approximately 9,345 feet south-southeast of the Site with a recorded depth to water of 224 feet bgs. Additionally, a cathodic protection well is located at the Site well pad and has a recorded depth to water of 100 feet bgs. The cathodic protection well log is included in Appendix A.

The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake (Figure 1). No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site (Figure 1). The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the Bureau of Land Management). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site. A Site receptor map is shown on Figure 1.

SITE CLOSURE CRITERIA

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

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

DELINEATION AND SOIL SAMPLING ACTIVITIES

Upon discovery of the release, Hilcorp retained Ensolum to conduct subsurface delineation of the impacted area. Initial delineation activities were conducted on January 29, 2025, and included advancement of two hand auger boreholes (HA01 and HA02). Soil was logged for lithology and head space field screened for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID), and for chloride using Hach QuanTab® test strips. Soil descriptions and field screening results were recorded in the field notebook. Soil samples were submitted to

Eurofins Environment Testing (Eurofins) for analysis of BTEX (United States Environmental Agency (EPA) Method 8021B), TPH (EPA Method 8015M/D), and chloride (EPA Method 300.0). PID field screening results are summarized in Table 1. A notification of sampling activities was submitted to the NMOCD 48 hours prior to fieldwork and is included as Appendix B.

HA01 was advanced adjacent to the condensate aboveground storage tank (AST), the suspected source of the release, to a depth of 17 feet bgs. Four soil samples were collected from HA01: one from the surface of the release, two from the depth interval with the highest observed contamination, and one from the terminus of the borehole. HA02 was advanced to a depth of 5 feet bgs on the east side of the pad, outside the secondary containment berm, and one sample was collected at the terminus. Snow and frozen ground conditions prevented further advancement of borings for lateral delineation during this event. Analytical results from the January 2025 hand auger delineation indicated BTEX concentrations up to 635 mg/kg and TPH concentrations up to 8,700 mg/kg, both COCs exceeded their respective Closure Criteria. Soil analytical results are summarized in Table 1 and photographs documenting site activities are presented in Appendix C. Complete laboratory reports with analytical soil results are included in Appendix D.

Based on analytical results from the initial delineation, Ensolum returned to the Site on March 10, 2025, to conduct additional hand auger investigation. Four hand auger boreholes were advanced to 17 feet bgs and head space field screened with a PID every 2 feet to evaluate the lateral extent of impacts. At each location, three samples were collected: one from the surface surrounding the release, one from the depth interval with the highest observed contamination, and one from the terminus of the borehole. All samples were submitted to Eurofins for analysis of BTEX, TPH, and chloride using the same methods as the initial event. A sampling notification was provided to the NMOCD and is included in Appendix B.

Site lithology observed during both hand auger events generally consisted of sand and silty sand from the surface to the maximum depth of 17 feet bgs. Exceedances of NMOCD Closure Criteria for BTEX and TPH were reported in samples from HA01 (0–1 feet bgs) and HA03 (13 feet bgs). At deeper intervals (4 feet bgs in HA01 and 17 feet bgs in HA03), BTEX concentrations dropped below Closure Criteria while TPH remained above. Chloride concentrations were compliant in all samples.

Because vertical extent of impacts could not be fully delineated using hand auger methods, Ensolum mobilized an environmental drilling rig operated by Enviro-drill for deeper assessment. Between April 21 and 23, 2025, four boreholes (BH01 through BH04) were advanced using a hollow-stem auger rig to depths ranging from 35 to 51 feet bgs, based on field observations and PID results. Soil was logged, screened with a PID, and sampled at intervals with the greatest observed contamination and at the borehole terminus. Due to the depth of impacts to the vadose zone, SVE wells for pilot testing purposes were installed at each borehole, with screen intervals selected based on PID screening results. Borehole logs with SVE well constructions are included in Appendix E. Samples were submitted to Eurofins or Envirotech Inc. (Envirotech) for BTEX, TPH, and chloride analysis using the same EPA methods described above.

Lithologic conditions observed during the April drilling event were consistent with previous findings, with sand and silty sand extending to the deepest screened intervals, and minor occurrences of silty clay below 17 feet bgs. Analytical results indicated BTEX and TPH exceedances in BH02 to 41 feet bgs, with TPH exceeding the Closure Criteria at 51 feet bgs. In BH04, both BTEX and TPH exceeded Closure Criteria down to 20 feet bgs.

To continue delineation of the release, an additional drilling event was conducted from June 16 to June 19, 2025. Six boreholes (BH05 through BH10) were advanced to depths up to 56 feet bgs. Soil was logged, screened with a PID, and sampled at intervals with elevated PID responses corresponding to the maximum observed contamination and at borehole terminus. SVE wells were installed at each borehole, with screen intervals selected based on PID screening. Samples

were submitted to Envirotech for analysis of BTEX, TPH, and chloride using the same methods described above.

Exceedances of NMOCD Closure Criteria were observed only in BH05 and BH09. In BH05, total BTEX and TPH concentrations reached 74.3 mg/kg and 1,788 mg/kg, respectively, between 14 feet and 26 feet bgs. In BH09, TPH exceeded the Closure Criteria between 19 feet and 21 feet bgs with a concentration of at 278 mg/kg. All remaining samples were non-detect or below Closure Criteria for BTEX, TPH, and chloride. Lithologic conditions remained consistent with previous events, consisting primarily of sand and silty sand throughout the investigated interval.

To confirm the northern extent of the release, a final drilling event was conducted on July 29, 2025. One borehole (BH11) was advanced north of BH09 to a depth of 30 feet bgs. Soil was logged, screened with a PID, and sampled at intervals with the greatest potential contamination observation and at the borehole terminus. Samples were submitted to Eurofins for analysis of BTEX, TPH, and chloride using the same methods described above. All results from this borehole were non-detect or below NMOCD Closure Criteria, confirming the release has been fully delineated to the north. Lithologic conditions were consistent with previous investigations, consisting primarily of sand and silty sand.

Based on the depths at which concentrations exceeded the applicable Closure Criteria, soil analytical data collected at the Site, and lateral extent of visibly impacted surface soil, petroleum hydrocarbon impacted soil is likely present between the ground surface up to a depth of approximately 51 feet bgs.

SVE SYSTEM PILOT TESTING

To determine if SVE would effectively remediate the Site in a reasonable timeframe and to aid in system design, Ensolum conducted a pilot test to determine the optimal flow rate and applied vacuum required to volatilize and remove petroleum hydrocarbons from the impacted subsurface soil. Pilot test data was also used to estimate the system's radius-of-influence (ROI) and radius-of-effect (ROE) and to determine whether additional SVE wells were needed at the Site.

SVE Pilot Test Procedures

During SVE pilot testing activities, BH01S, BH01D, BH02, and BH04, screened at varying depths in fine- to coarse-grained sand with silt, were used as the extraction wells. A vacuum truck applied a negative pressure to one test well at a time and an adjustable manifold was used to control the applied vacuum. Vacuum was gradually increased to determine the minimum vacuum necessary to achieve an effective ROI. Flow, vacuum, and field headspace results at the extraction well were recorded at approximately 5- to 10-minute intervals throughout the test. The remaining three aforementioned SVE wells that were not actively being extracted from were used as observation wells during the testing. A table summarizing well construction details for all four SVE wells is provided below.

Well ID	Screened Interval (feet bgs)	Lithology
BH01S	15-30	Silty Sand
BH01D	35-45	Coarse Sand
BH02	15-25	Fine Sand w/ Silt
SVE04	10-30	Fine-Coarse Sand w/ Silt

Note:

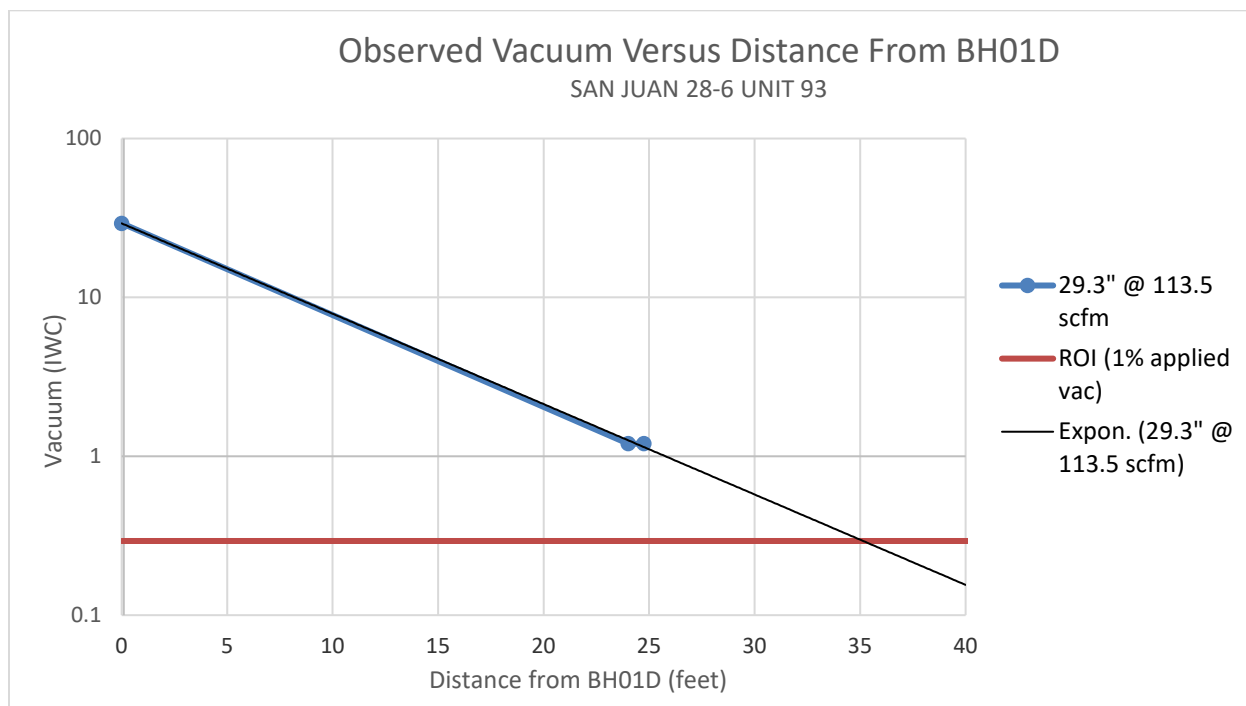
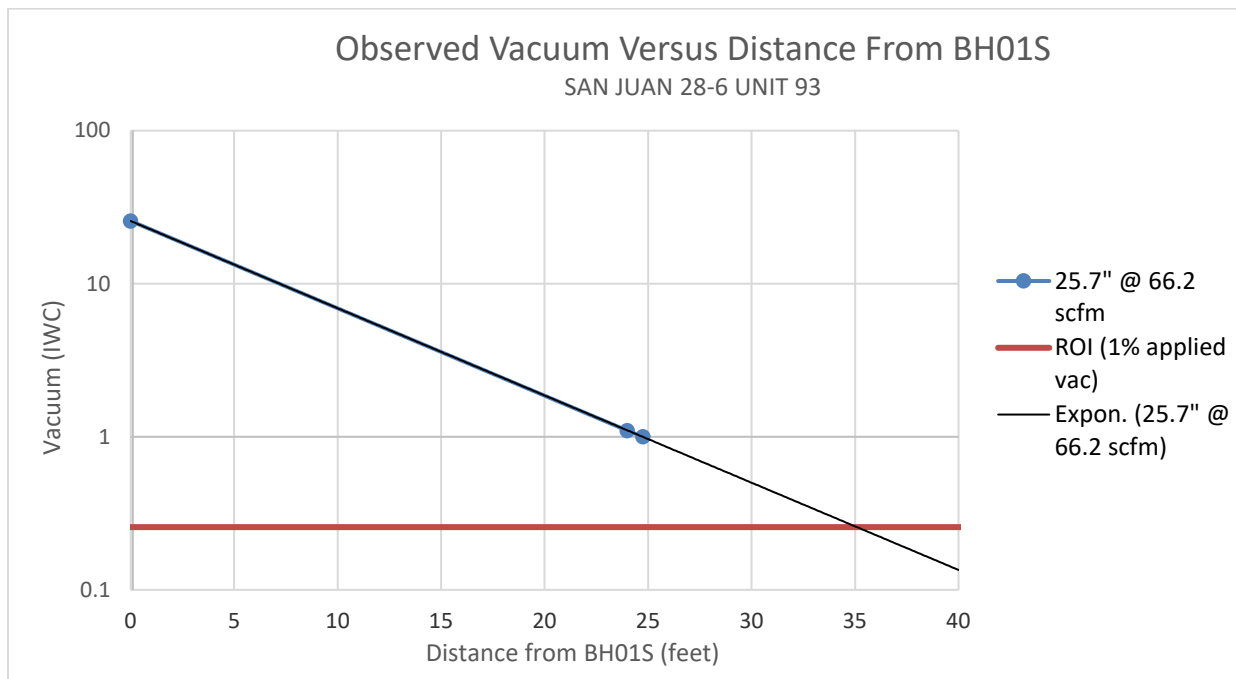
bgs – below ground surface

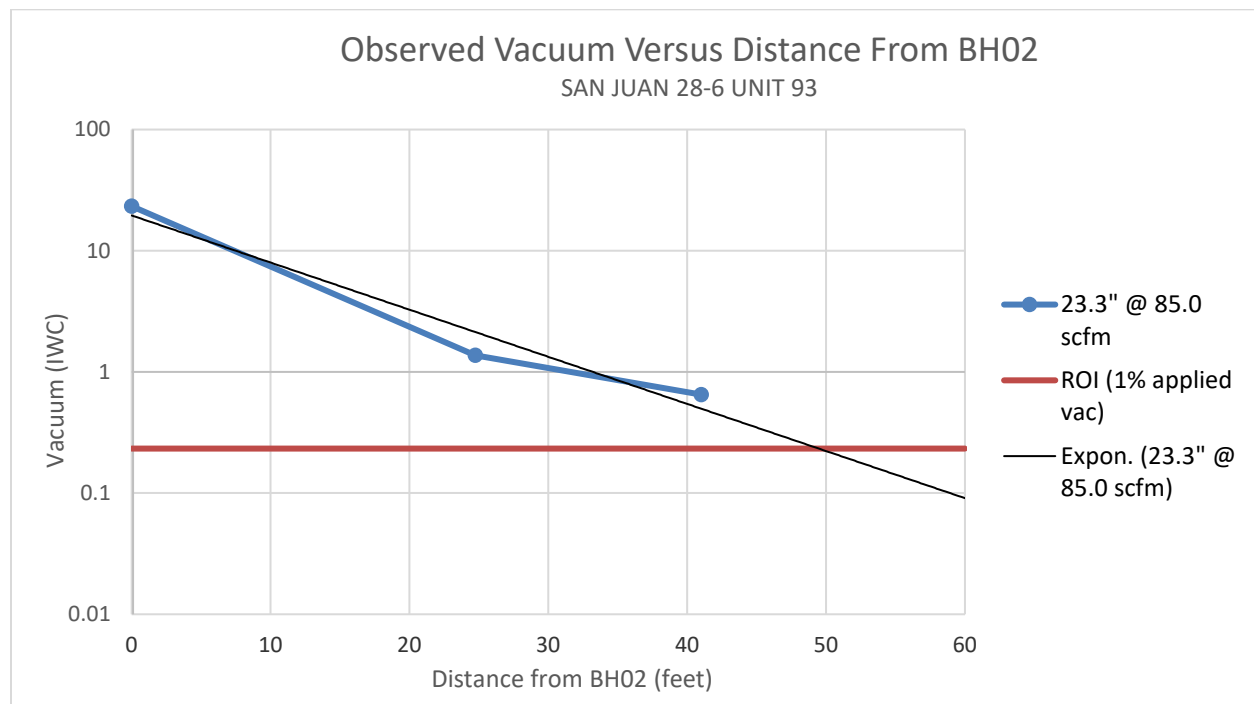
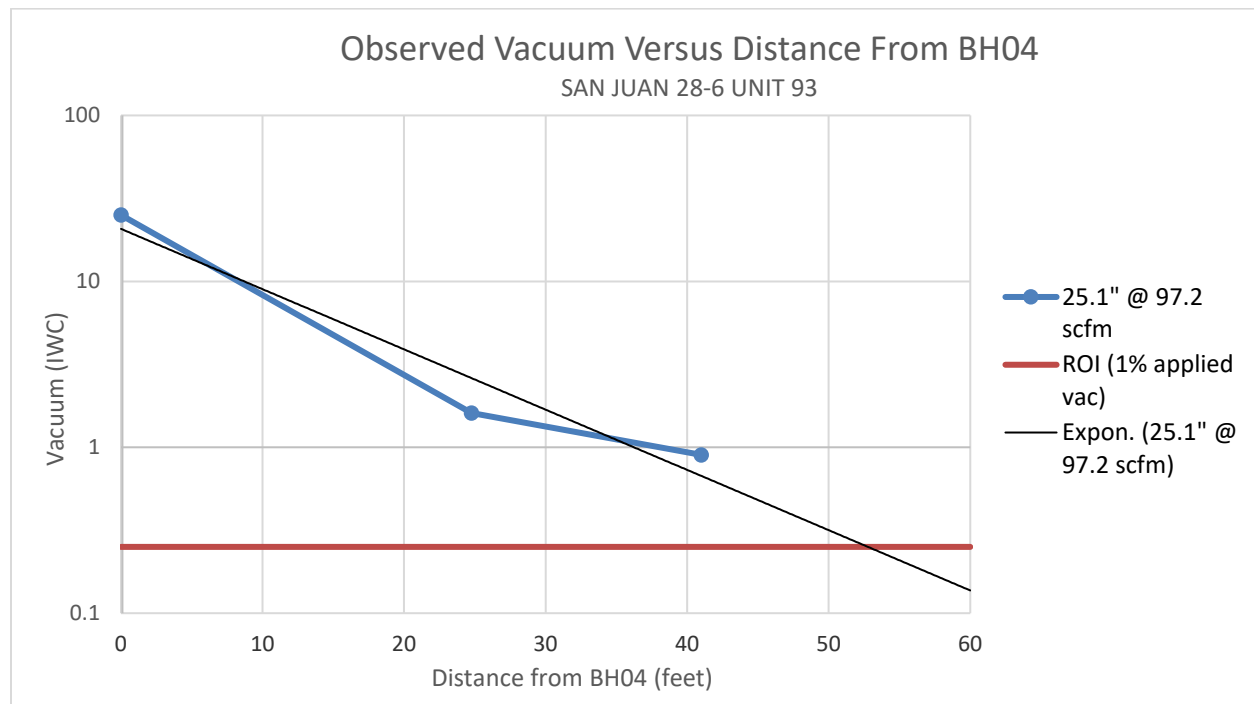
Vacuum influence records within the observation wells were collected along with the extraction well measurements at approximately 5- to 10-minute intervals throughout the test. The following list summarizes the procedure of the SVE pilot test:

- Measured the distances from the extraction well to each observation well.
- Collected background measurements for VOCs using a PID at the SVE extraction and observation wells.
- Connected a flexible hose from the vacuum truck to the pilot test manifold, which was attached to the extraction well. Slowly opened the manifold valve to increase flow and vacuum.
- Applied a low vacuum at approximately 10 to 15 inches of water column (IWC), then increased the vacuum/flow rate until influence was observed at the observation wells.
- Increased the vacuum/flow incrementally based on the observed responses. Tested vacuums between approximately 10 IWC and 60 IWC.
- Measured the vacuum at the observation wells and recorded measurements approximately 10 minutes apart.
- Measured extraction well air velocity using a thermal anemometer.
- Collected one air sample per test from the soil vapor extraction process stream in a 1-Liter Tedlar[®] bag using a high-vacuum air sampler and submitted the sample for laboratory analysis.
- Following field testing, velocity readings were converted to actual cubic feet per minute (acfm), and then normalized to standard conditions to report flow rates in standard cubic feet per minute (scfm).

SVE Pilot Test Results

The vacuum responses observed during the pilot test are shown below for extraction wells BH01S, BH01S, BH02, and BH04 and the corresponding observation wells used during testing. Observation wells were spaced from the SVE extraction well in order to estimate the ROI based on varying vacuum response at varying distances. Vacuum influence was observed at all observation wells during all four tests as shown on the graphs below.





As shown in the graphs above and extrapolating out using the best fit trendlines, 1 percent (%) of the applied vacuum was observed at a distance of 35 feet from extraction well BH01S when a vacuum of 25 IWC was applied to the test well, 35 feet from extraction well BH01D when a vacuum of 29 IWC was applied to the test well, 52 feet from extraction well BH04 when a vacuum of 25 IWC was applied to the test well, and 50 feet from extraction well BH02 when a vacuum 23 IWC was applied to the test well.

ROI calculations for this pilot test produced favorable results during all four tests, despite the wells being screened differently from one another, confirming the applied vacuum not only extends laterally, but also vertically past the screened intervals of the extraction wells.

The ROE calculations also utilized the pilot test data, with calculations included as Appendix F. The ROE was determined by calculating the annular pore volume exchanges assuming ROIs of 35 feet for BH01S and BH01D, 52 feet for BH04, and 50 feet for BH02 at flow rates of 66, 114, 97, and 85 scfm, respectively, and applied vacuum values of 26, 29, 25, and 23 IWC, respectively. The calculated pore volume for each test well indicates annual pore volume exchanges of 2,009; 5,167, 1,002; and 1,896, respectively, well above the recommended minimum value of 500. Additionally, pore velocities were calculated to be 96, 248, 71, and 130 feet per day (ft/day), respectively, all of which exceed the recommended velocity of 3 ft/day (DiGiulo and Ravi 1999).

SVE Pilot Test Conclusions and Recommendations

During the pilot test, Ensolum collected vapor samples from the pilot test manifold via a high vacuum air sampler. The vapor samples were collected in 1-Liter Tedlar® bags and were submitted to Eurofins in Albuquerque, New Mexico for analysis of BTEX following EPA Method 8260B and TPH-GRO following EPA Method 8015. TPH-GRO was detected at concentrations ranging from 40,000 micrograms per liter ($\mu\text{g/L}$) at extraction wells BH01-S and BH01-D to 140,000 $\mu\text{g/L}$ at extraction well BH02. Ensolum recommends the installation of an SVE system at the Site based on the favorable, observed and calculated ROIs of at least 35 feet, as well as the analytical results gathered from the Site and presented in Table 2.

Based on an approximate single extraction well flow rate of 90 scfm and an average TPH-GRO concentration of 68,750 $\mu\text{g/L}$, the mass removal rate is approximately 23.1 pounds per hour (lbs/hr), or 554 pounds per day (lbs/day) per extraction well. Applying similar values to all twelve SVE wells currently installed at the Site equates to a full system flow rate of approximately 1,080 scfm and a full system mass removal rate of approximately 6,665 lb/day (3.3 tons/day) upon startup; however, due to power limitations at the Site, the system will be designed to operate in zones and no more than six extraction wells will be operational at one time, as described in more detail below. Furthermore, the extraction wells used for pilot testing were located in proximity to the locations with the highest degree of soil impact and it is anticipated the mass removal rates from the remaining eight extraction wells will be lower than those estimated from BH01-S, BH01-D, BH02, and BH04. It is also anticipated the mass removal and emissions rates will decrease quickly following initial startup. The need for vapor treatment will be reevaluated once the final system configuration is determined and following several months of vapor sample collection and mass removal/emissions calculations. Table 2 presents a summary of analytical data collected during the pilot test, with the full analytical laboratory reports included as Appendix G. The mass removal and emissions calculations for the vapor samples collected during pilot testing are provided in Table 3.

REMEDIATION WORK PLAN

As stated above, SVE is a viable technology to remediate subsurface impacts at the Site. Based on the pilot test results, an SVE system sized to extract soil vapor from all twelve extraction wells currently installed at the Site would require a minimum of 1,086 scfm at 25 inches of water column (IWC) vacuum. A blower capable of the aforementioned flow rate would exceed the current available power at the Site. Due to available power limitations, a smaller blower will be installed and will be connected to a subset of existing extraction wells. The initial remedial efforts will be focused on the area surrounding the condensate AST where the 2024 release was identified. Once mass removal rates in the initial zone reach asymptotic levels at or below 5 to 10 lbs/day, the initial configuration will be reassessed, and the system will be reconfigured to extract from a subset of extraction wells located outside of the 2024 release area. The number of zones required to remediate the soil impacts across the site will be determined following an evaluation of available

power and whether an upgraded service is feasible. It is anticipated that minimum of three and a maximum of six extraction wells will be operational at one time.

OPERATIONS AND MAINTENANCE PLAN

Regular operation and maintenance (O&M) visits will be conducted at the Site to verify the system is operating properly and assess for any required maintenance. Specifically, personnel will check that the SVE system is operating within normal working temperature, pressure, and vacuum range. System runtime will be recorded during each visit and vapor concentrations will be periodically measured with a PID from a sampling port located on the inlet side of the vacuum blower and prior to the dilution valve. Vacuum, temperature, and flow measurements will also be recorded. Any deviations from normal operating parameters will be recorded and corrected by on-site personnel, if possible. The SVE system will also be connected to Hilcorp's telemetry network so that Hilcorp personnel will be notified immediately of any system downtime via email. Immediate notification will allow for quick response to maximize system runtime.

FUTURE RUNTIME CALCULATIONS AND PROPOSED REMEDIATION TIMELINE

The SVE system will be tied to the grid to allow the system to operate for 24 hours per day. Based on 24 hours of available runtime, the system will have to operate a minimum of 7,884 hours per year to maintain a 90% efficiency. A runtime meter will be installed on the SVE system in a location accessible to the NMOCD and will be used to track runtime hours. Downtime outside of Hilcorp's control (i.e., equipment failure) will be accounted for and the total available annual runtime hours will be adjusted. This information will be detailed and submitted to the NMOCD in quarterly Site reports.

Assuming the SVE system is able to achieve the anticipated flow and vacuum presented above and potentially four separate zones of operation, the system should be able to achieve between 1,000 and 1,500 pore volume exchanges across the site in 2.5 to 3 years of operation (7 to 8 months per zone) if 100% operational runtime is achieved and downtime in between switching from one zone to another is minimized. If TPH-GRO concentrations collected from the system become asymptotic before the estimated closure date, the system will be adjusted in attempts to maximize performance and increase mass removal.

Once the system is operational, quarterly reports will be prepared and submitted to the NMOCD to present air sample results, mass removal calculations, and any system adjustments required during the previous quarter of operation. Based on the above assumptions, the following general timeline is anticipated for the operation of the system. Day zero (0) is the date on which the NMOCD and the BLM approve this work plan.

- Months 0 to 6 – Acquire/construct and install the SVE system and generators per the specifications outlined in this report.
- 6 Months to 1.0 Year – Collect regular air samples from the SVE system at a location upstream of the blower and any dilution valves. Assess system efficacy and update the remediation timeline based on sampling analytical results after 6 to 12 months of operation. Perform system maintenance and optimize system operation, as necessary. Continue O&M visits to monitor system performance and prepare quarterly reports.
- 1.0 Year to 3.5 Years – At any point, if air concentrations of TPH-GRO collected from the system become asymptotic and/or mass removal rates are below 5 to 10 lbs/day, the current operational zone will be shut down and the system will be relocated to the next subset of extraction wells. At any point, if air concentrations of TPH-GRO collected from the system become asymptotic and/or mass removal rates are below 5 to 10 lbs/day at the last operational zone, soil samples can be collected and analyzed

- for TPH and BTEX constituents to determine if concentrations are below NMOCD Table I Closure Criteria (as described below). Additionally, the system will be adjusted to maximize performance and address areas with remaining soil impacts. Continue air sample collection, monitoring, and reporting as necessary.
- Year 4 – Collect soil confirmation samples and analyze for TPH and BTEX constituents as described above. Request Site closure if soil sample results are below NMOCD Table I Closure Criteria. If soil concentrations are above Closure Criteria, the remediation timeline will be reviewed, and the system will be adjusted to maximize performance and address areas with remaining soil impacts. Continue quarterly air sample collection, monitoring, and reporting as necessary.

REFERENCES

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

Buscheck, T.E. and Peargin T.R., 1991. Summary of a Nation-Wide Vapor Extraction System Performance Study. *Proceedings of Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Prevention, Detection, and Restoration*. November, 1991. NWWA.

DiGiulio, D., Ravi, V., & Brusseau, M., 1999. Evaluation of mass flux to and from ground water using a vertical flux model (VFLUX): application to the soil vacuum extraction closure problem. *Ground water monitoring & remediation*, 19, 96-104. doi: 10.1111/j.1745-6592.1999.tb00210.x

United States Army Corps of Engineers (USACE), 2002. Engineering and Design, Soil Vapor Extraction and Bioventing - Engineer Manual, Document EM 1110-1-4001. June 3, 2002.

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

Sincerely,
Ensolum, LLC



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wweichert@ensolum.com



Stuart Hyde, PG (licensed in WY, WA & TX)
Senior Managing Geologist
(970) 903-1607
shyde@ensolum.com

Attachments:

- Figure 1: Site Receptor Map
- Figure 2: Delineation Soil Sample Locations

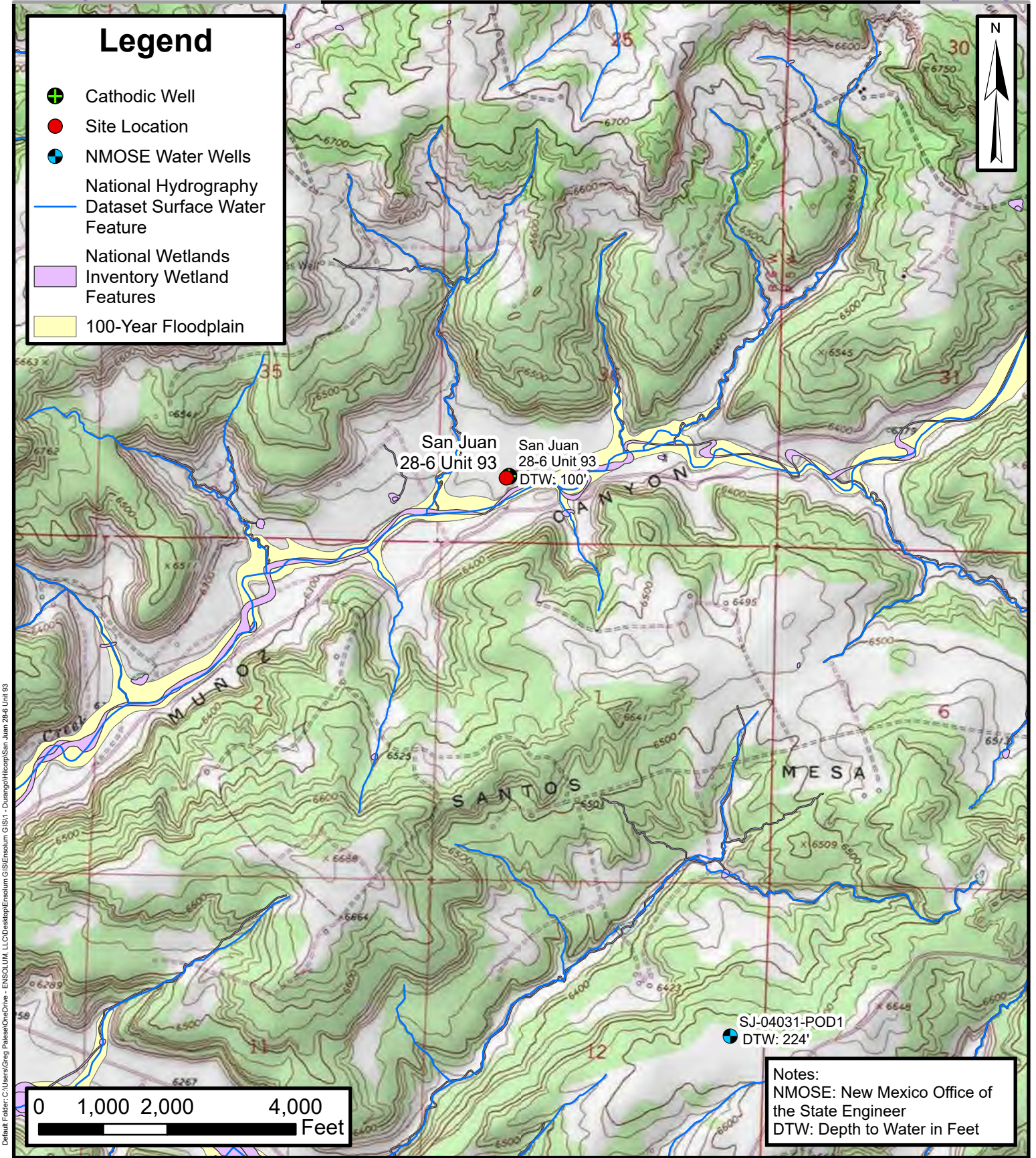
- Table 1: Soil Sample Analytical Results
- Table 2: Soil Vapor Extraction Analytical Results
- Table 3: Soil Vapor Extraction Pilot Test Mass Removal and Emissions

- Appendix A: Cathodic Well Data Sheet
- Appendix B: Agency Correspondence
- Appendix C: Photographic Log
- Appendix D: Soil Laboratory Analytical Reports
- Appendix E: Borehole Logs
- Appendix F: ROI Calculations
- Appendix G: Air Laboratory Analytical Reports



FIGURES





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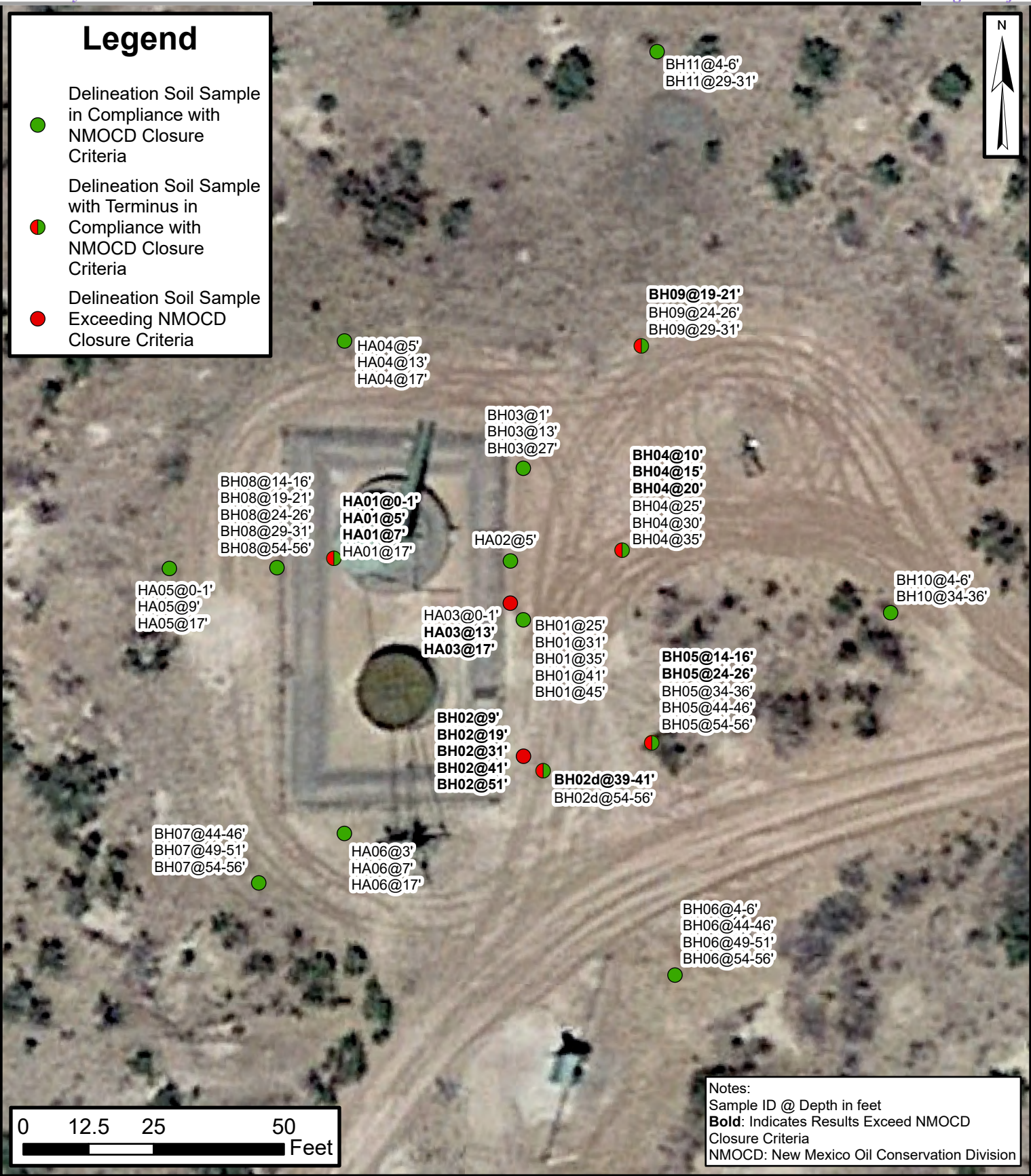
Site Receptor Map

San Juan 28-6 Unit 93
 Hilcorp Energy Company
 36.61304, -107.42325
 Rio Arriba County, New Mexico

FIGURE
1

Legend

- Delineation Soil Sample in Compliance with NMOCD Closure Criteria
- Delineation Soil Sample with Terminus in Compliance with NMOCD Closure Criteria
- Delineation Soil Sample Exceeding NMOCD Closure Criteria



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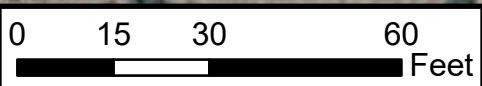
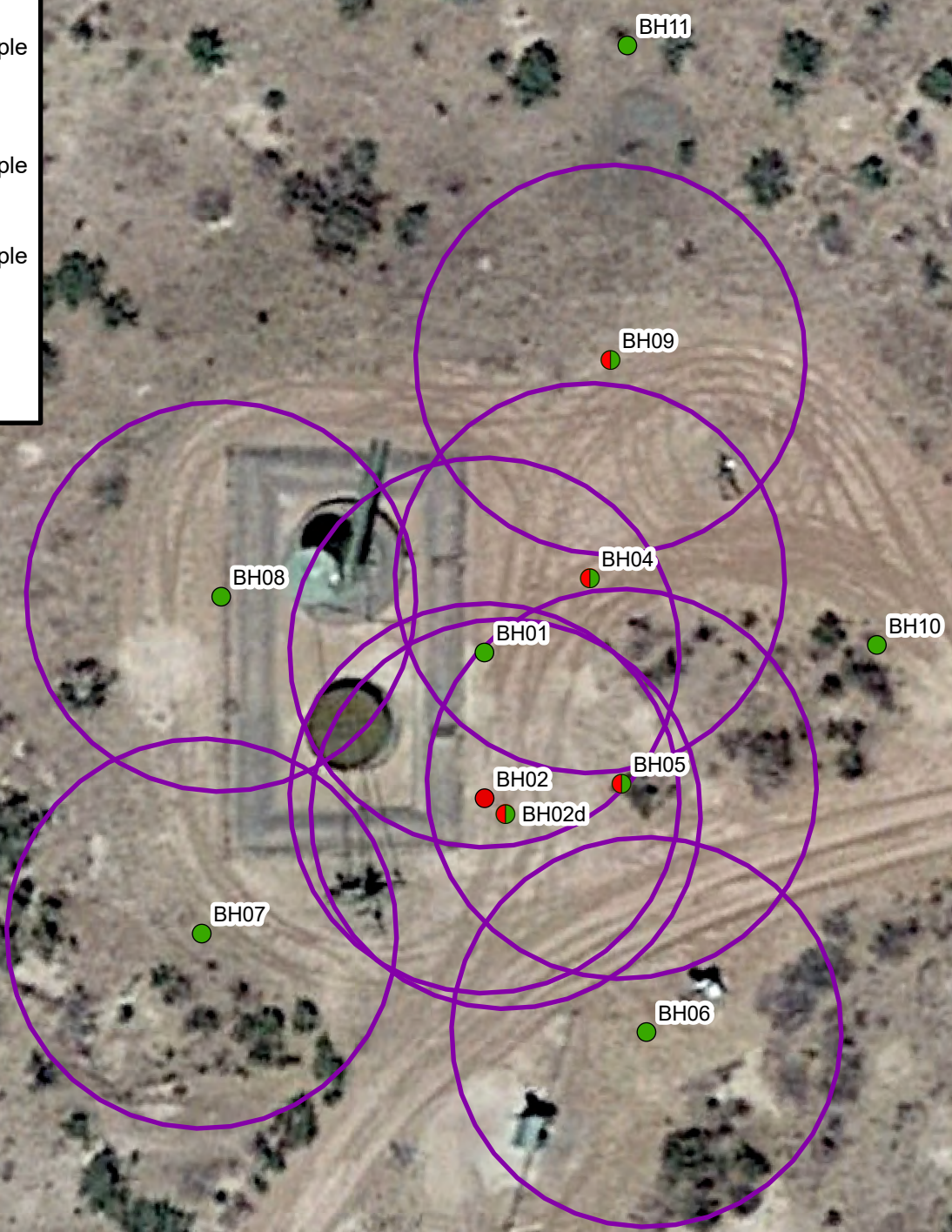
Delineation Soil Sample Map

San Juan 28-6 Unit 93
 Hilcorp Energy Company
 36.61304, -107.42325
 Rio Arriba County, New Mexico

FIGURE
2

Legend

- Delineation Soil Sample in Compliance with NMOCD Closure Criteria
- Delineation Soil Sample Exceeding NMOCD Closure Criteria
- ● Delineation Soil Sample with Terminus in Compliance with NMOCD Closure Criteria
- ROI and ROE



Notes:
 SVE: Solar Vapor Extraction
 ROI: Radius of Influence
 ROE: Radius of Effect

Default Folder: C:\Users\Greg Palese\OneDrive - ENSOLUM, LLC\Desktop\ENSOLUM GIS\ENSOLUM GIS1 - Durango\Hilcorp\San_Juan_28-6_Unit_93

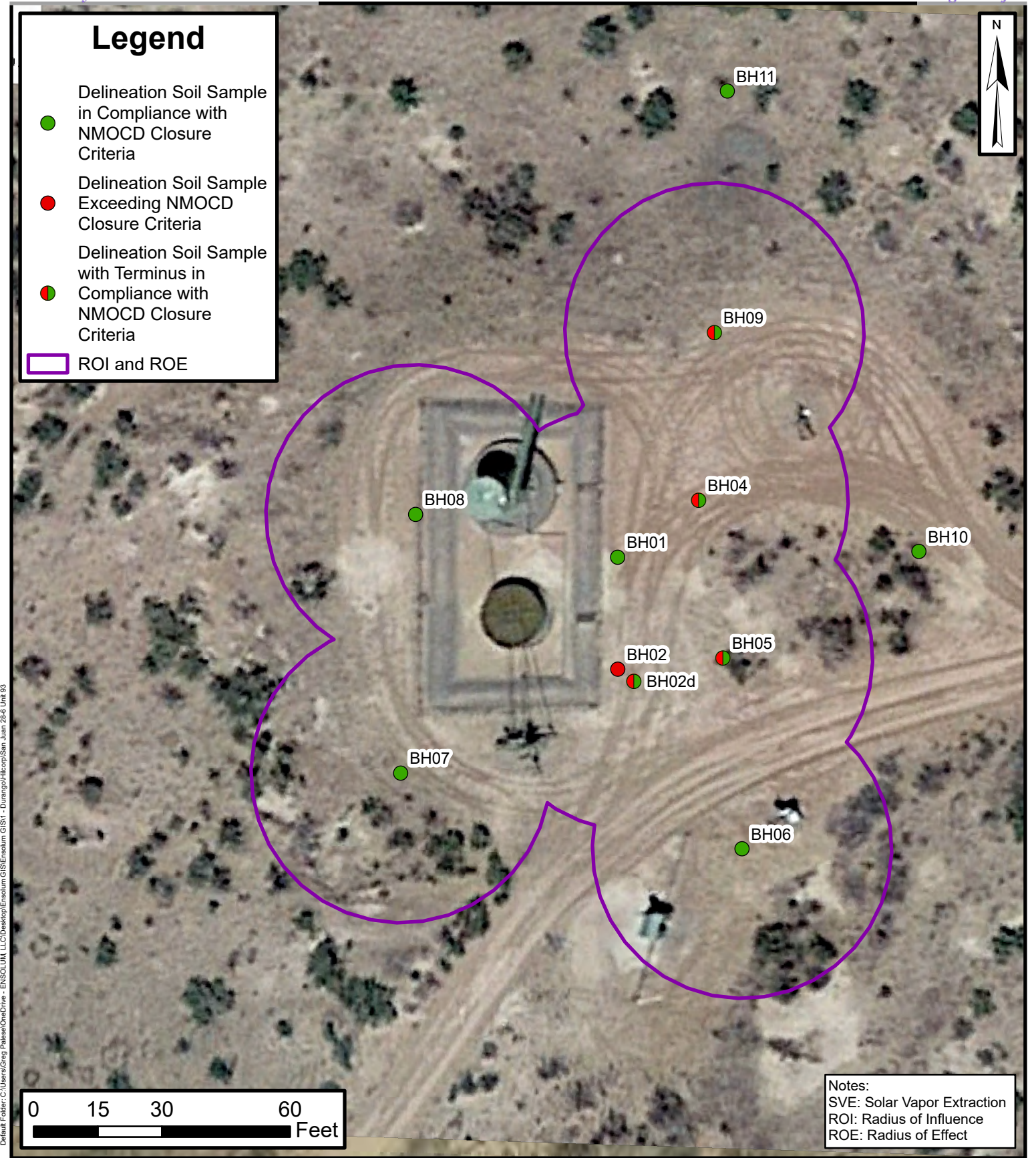


**SVE System Radius of Influence and
 Radius of Effect**
 San Juan 28-6 Unit 93
 Hilcorp Energy Company
 36.61304, -107.42325
 Rio Arriba County, New Mexico

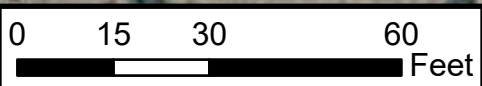
**FIGURE
 3**

Legend

- Delineation Soil Sample in Compliance with NMOCD Closure Criteria
- Delineation Soil Sample Exceeding NMOCD Closure Criteria
- ● Delineation Soil Sample with Terminus in Compliance with NMOCD Closure Criteria
- ROI and ROE



Default Folder: C:\Users\Greg Palese\OneDrive - ENSOLUM, LLC\Desktop\ENSOLUM GIS\ENSOLUM GIS1 - Durango\Hilcorp\San_Juan_28-6_Unit_93



Notes:
 SVE: Solar Vapor Extraction
 ROI: Radius of Influence
 ROE: Radius of Effect



**SVE System Radius of Influence and
 Radius of Effect**
 San Juan 28-6 Unit 93
 Hilcorp Energy Company
 36.61304, -107.42325
 Rio Arriba County, New Mexico

**FIGURE
 3**



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 San Juan 28-6 Unit 93
 Hilcorp Energy Company
 Rio Aribba County , New Mexico

Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCDC Closure Criteria for Soils Impacted by a Release			NE	10	NE	NE	NE	50	NE	NE	NE	100	600
Hand Auger Delineation													
HA01@0-1	3/10/2025	0-1	1,834	3.2	120	42	470	635	7,000	1,700	<98 D	8,700	<60
HA01@4	3/10/2025	5	1,838	<0.024	1.1	0.85	8.8	10.75	140	97	<49	237	<60
HA01@7	1/29/2025	7	2,431	<0.024	0.31	0.35	3.4	4.06	150	51 F1	<48	150	<60
HA01@17	1/29/2025	17	1,722	<0.024	<0.047	0.047	0.11	0.157	22	<9.6	<48	22	<60
HA02@5	1/29/2025	5	23.4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<48	<48	<60
HA03@0-1	3/10/2025	0-1	7.0	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.0	<45	<45	<60
HA03@13	3/10/2025	13	1,096	<0.23	9.5	5.9	100	115	1,500	2,500	<470 D	4,000	<60
HA03@17	3/10/2025	17	1,675	<0.46	3.3	2.5	32	37.8	680	430	<48	1,110	<60
HA04@5	3/10/2025	5	11.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<47	<59
HA04@13	3/10/2025	13	12.9	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<47	<47	<60
HA04@17	3/10/2025	17	5.4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.7	<48	<48	<60
HA05@0-1	3/10/2025	0-1	13.2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<10	<50	<50	<60
HA05@9	3/10/2025	9	5.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.7	<49	<49	<60
HA05@17	3/10/2025	17	1.9	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.7	<48	<48	<60
HA06@3	3/10/2025	3	8.7	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<47	<60
HA06@7	3/10/2025	7	7.4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<48	<48	<60
HA06@17	3/10/2025	17	1.6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	<59
Hollow Stem Auger Drilling Delineation													
BH01@25	4/21/2025	25	>5,000	<0.0250	<0.0250	0.0422	0.420	0.4622	<20.0	52.3	<50.0	52.3	<20.0
BH01@31	4/21/2025	31	>5,000	<0.0250	<0.0250	<0.0250	0.105	0.105	<20.0	33.3	<50.0	33.3	<20.0
BH01@35	4/21/2025	35	1,381	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	25.4	<50.0	25.4	<20.0
BH01@41	4/21/2025	41	1,445	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH01@45	4/21/2025	45	273	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH02@9	4/23/2025	9	>5,000	<0.024	4.1	4.0	69	77.1	1,500	350	67	1,917	<60
BH02@19	4/23/2025	19	>5,000	1.2	160	23	450	634	8,100	280	<48	8,380	<59
BH02@31	4/23/2025	31	>5,000	0.31	32	9.7	150	192	2,500	380	<46	2,880	<61
BH02@41	4/23/2025	41	>5,000	0.79	68	11	120	200	2,700	390	<49	3,090	<60
BH02@51	4/23/2025	51	>5,000	0.033	1.3	0.21	2.0	3.5	110	<9.5	<49	110	<60
BH02d@39-41	6/17/2025	39-41	3,436	<0.0250	11.4	1.27	20.7	33.4	430	116 T9 S5	<50.0 S5	430	<20.0
BH02d@54-56	6/17/2025	54-56	26.5	<0.0250	0.341	<0.250	0.266	0.607	<20.0	<25.0	<50.0	<50.0	<20.0
BH03@1	4/22/2025	1	16.7	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<49	<61
BH03@13	4/22/2025	13	100.0	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	<60
BH03@27	4/22/2025	27	75.0	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.5	<47	<47	<60
BH04@10	4/22/2025	10	>5,000	<0.12	5.6	6.0	130	142	3,100	1,500	<250	4,600	<59
BH04@15	4/22/2025	15	>5,000	0.062	2.2	2.9	36	41.2	780	460	<49	1,240	<60
BH04@20	4/22/2025	20	>5,000	0.12	8.3	6.6	110	125	1,700	690	<48	2,390	<59
BH04@25	4/22/2025	25	3,838	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	31	<50	31	<61
BH04@30	4/22/2025	30	834.4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<48	<60
BH04@35	4/22/2025	35	711.8	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	<60



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 San Juan 28-6 Unit 93
 Hilcorp Energy Company
 Rio Aribba County , New Mexico

Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCDC Closure Criteria for Soils Impacted by a Release			NE	10	NE	NE	NE	50	NE	NE	NE	100	600
BH05@14-16	6/16/2025	14-16	4,348	<0.0250	1.52	1.09	21.7	24.3	352	761	<50.0	1,113	<20.0
BH05@24-26	6/16/2025	24-26	4,495	<0.125	2.90	4.17	67.2	74.3	1,120	668	<50.0	1,788	<20.0
BH05@34-36	6/16/2025	34-36	4,154	<0.0250	0.0388	0.0645	0.638	0.741	29.7	35.3	<50.0	65.0	<20.0
BH05@44-46	6/16/2025	44-46	969	<0.0250	<0.0250	<0.0250	0.199	0.199	<20.0	25.4	<50.0	25.4	<20.0
BH05@54-56	6/16/2025	54-56	10.1	<0.0250	0.104	<0.0250	0.161	0.265	<20.0	<25.0	<50.0	<50.0	<20.0
BH06@4-6	6/18/2025	4-6	56.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH06@44-46	6/18/2025	44-46	51.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH06@49-51	6/18/2025	49-51	15.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH06@54-56	6/18/2025	54-56	5.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH07@44-46	6/18/2025	44-46	5.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH07@49-51	6/18/2025	49-51	57.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH07@54-56	6/18/2025	54-66	1.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH08@14-16	6/19/2025	14-16	7.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH08@19-21	6/19/2025	19-21	114.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH08@24-26	6/19/2025	24-26	16.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH08@29-31	6/19/2025	29-31	19	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH08@54-56	6/19/2025	54-56	5.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH09@19-21	6/17/2025	19-21	31.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	278	<50.0	278	<20.0
BH09@24-26	6/17/2025	24-26	12.8	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH09@29-31	6/17/2025	29-31	3.8	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH10@4-6	6/17/2025	4-6	8.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH10@34-36	6/17/2025	34-36	1.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH11 4-6	6/17/2025	4-6	5.0	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	68
BH11 29-31	6/17/2025	29-31	2.9	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	<60
BH11 4-6	7/29/2025	4-6	5.0	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	68
BH11 29-31	7/29/2025	29-31	2.9	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	<60

Notes:

bgs: Below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

D: Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

DRO: Diesel Range Organics

GRO: Gasoline Range Organics

F1: MS and/or MSD recovery exceeds control limits.

mg/kg: Milligrams per kilogram

MRO: Motor Oil/Lube Oil Range Organics

NMOCDC: New Mexico Oil Conservation Division

PID: Photoionization detector

ppm: Parts per million

S5: Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

T9: DRO includes undifferentiated early eluting analytes characteristic of GRO.



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS San Juan 28-6 Unit 93 Hilcorp Energy Company Rio Aribba County , New Mexico													
Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCDC Closure Criteria for Soils Impacted by a Release			NE	10	NE	NE	NE	50	NE	NE	NE	100	600

TPH: Total Petroleum Hydrocarbon

': Feet

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

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

TABLE 2 SOIL VAPOR EXTRACTION PILOT TEST ANALYTICAL RESULTS San Juan 28-6 Unit 93 Hilcorp Energy Company Rio Aribba County, New Mexico							
Date	Extraction Well	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPVP/GRO (µg/L)	Inlet PID (ppm)
6/9/2025	BH01-S	24	500	18	140	40,000	2,540
6/9/2025	BH01-D	24	400	9.9	170	40,000	2,390
6/10/2025	BH04	15	440	37	350	55,000	3,155
6/10/2025	BH02	80	2,900 E	67	560	140,000 E	2,331

Notes:

GRO: gasoline range hydrocarbons

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

E: Result exceeded calibration range



TABLE 3
SOIL VAPOR EXTRACTION PILOT TEST MASS REMOVAL AND EMISSIONS
 San Juan 28-6 Unit 93
 Hilcorp Energy Company
 Rio Aribba County, New Mexico

Laboratory Analysis

Date	Inlet PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH (µg/L)
6/9/2025	2,540	24	500	18	140	40,000
6/9/2025	2,390	24	400	10	170	40,000
6/10/2025	3,155	15	440	37	350	55,000
6/10/2025	2,331	80	2,900	67	560	140,000

Vapor Extraction Summary

Date	Flow Rate (scfm)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
6/9/2025	94.1	0.008	0.176	0.006	0.0493	14.1
6/9/2025	148.1	0.013	0.222	0.005	0.0942	22.2
6/10/2025	161.8	0.009	0.266	0.022	0.2118	33.3
6/10/2025	196.6	0.059	2.132	0.049	0.4118	102.9

Notes:

cf: cubic feet

scfm: standard cubic feet per minute

µg/L: micrograms per liter

lb/hr: pounds per hour

--: not sampled

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

gray: laboratory reporting limit used for calculating emissions



APPENDIX A

Cathodic Well Data Sheet

1601

141-30-039-20039

93-30-039-07227

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 36 Twp 28 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UJIT #141, #93

cps 1071w

Elevation 6334' Completion Date 10/11/76 Total Depth 499' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 100'

RECEIVED
MAY 31 1991

Depths gas encountered: N/A

OIL CON. DIV.
NDST. 3

Type & amount of coke breeze used: 63 SACKS

Depths anodes placed: 470', 460', 370', 340', 285', 260', 225', 185', 170', 130'

Depths vent pipes placed: N/A

Vent pipe perforations: 422'

Remarks: qb #1

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.



APPENDIX B

Agency Correspondence

From: [Stuart Hyde](#)
To: [Wes Weichert](#)
Subject: Fw: The Oil Conservation Division (OCD) has accepted the application, Application ID: 424594
Date: Monday, January 27, 2025 10:59:51 AM

Stuart Hyde, PG
(Licensed in WA/TX)
Senior Managing Geologist
(970) 903-1607
Ensolum, LLC

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, January 24, 2025 3:01:23 PM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 424594

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2436230674.

The sampling event is expected to take place:

When: 01/29/2025 @ 09:00

Where: M-36-28N-06W 990 FSL 1090 FWL (36.6130981,-107.4237747)

Additional Information: Contact PM-Stuart Hyde (970) 403-6023

Additional Instructions: San Juan 28-6 Unit 93 (36.613263, -107.424127). Hand Auger delineation hand sampling. Number of samples is estimated.

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

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

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

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

From: [Stuart Hyde](#)
To: [Kate Kaufman](#)
Cc: [Wes Weichert](#)
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 438709
Date: Tuesday, March 4, 2025 11:38:10 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.jpg](#)

Sampling notice for the 93 next Monday.



Stuart Hyde, PG

(Licensed in WA/TX)

Senior Managing Geologist

970-903-1607

[Ensolum, LLC](#)



"If you want to go fast, go alone. If you want to go far, go together." – African Proverb

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, March 4, 2025 11:33 AM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 438709

[**EXTERNAL EMAIL]**

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2436230674.

The sampling event is expected to take place:

When: 03/10/2025 @ 09:00

Where: M-36-28N-06W 990 FSL 1090 FWL (36.6130981,-107.4237747)

Additional Information: Contact PM Stuart Hyde 970-903-1607

Additional Instructions: SAN JUAN 28-6 UNIT 93 @ 30-039-07227 (36.6130981,-107.4237747) Hand auger delineation only. Samples to be collected from boreholes.

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

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

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

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

From: [Rodgers, Scott, EMNRD](#)
To: [Stuart Hyde](#)
Cc: [Kate Kaufman](#); [Wes Weichert](#)
Subject: RE: [EXTERNAL] napp2436230674 - Hilcorp San Juan 28-6 #93 Extension Request
Date: Friday, June 20, 2025 1:14:19 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to August 23, 2025 within the incident page. Please note that this is the second and final extension request.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Stuart Hyde <shyde@ensolum.com>
Sent: Friday, June 20, 2025 12:32 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kate Kaufman <kkaufman@hilcorp.com>; Wes Weichert <wweichert@ensolum.com>

Subject: [EXTERNAL] napp2436230674 - Hilcorp San Juan 28-6 #93 Extension Request

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

Scott,

On behalf of Hilcorp Energy Company, we are submitting this request for a 90-day extension to the reporting deadline for the San Juan 28-6 Unit 93 release. Based on the initial hand auger and excavator pothole delineation activities performed at the Site, we have additionally conducted drilling and soil sampling activities in order to fully delineate soil impacts. At this time, we have been conducting additional drilling activities this week and will continue next week. Attached is the table summarizing delineation data that we have received for the Site so far. We have also conducted a pilot study for the use of soil-vapor extraction as a potential remedial technique at the Site. We are requesting this extension in order to finish delineation activities and prepare a Remediation Work Plan.

We respectfully request a 60-day extension of the reporting deadline from June 24, 2025 to Friday August 23, 2025

Please let us know if you have any questions.



Stuart Hyde, PG

(Licensed in TX, WA, & WY)

Senior Managing Geologist

970-903-1607

[Ensolum, LLC](#)

in f X

"If you want to go fast, go alone. If you want to go far, go together." – African Proverb

From: [Rodgers, Scott, EMNRD](#)
To: [Stuart Hyde](#)
Cc: [Adeloye, Abiodun A](#); [Kate Kaufman](#); [Wes Weichert](#)
Subject: RE: [EXTERNAL] napp2436230674 - San Juan 28-6 Unit 93 Extension Request
Date: Wednesday, March 26, 2025 2:38:52 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)

You don't often get email from scott.rodgers@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to June 24, 2025 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



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

Sent: Wednesday, March 26, 2025 2:16 PM

To: Stuart Hyde <shyde@ensolum.com>

Cc: Adeloje, Abiodun A <aadeloje@blm.gov>; Kate Kaufman <kkaufman@hilcorp.com>; Wes Weichert <wweichert@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrn.nm.gov>; Rodgers, Scott, EMNRD <Scott.Rodgers@emnrn.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrn.nm.gov>

Subject: RE: [EXTERNAL] napp2436230674 - San Juan 28-6 Unit 93 Extension Request

Good afternoon Stuart,

The reviewer for NAPP2436230674 SAN JUAN 28-6 UNIT 93 is Scott Rodgers. As such I am cc'ing him on this extension request.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520 Shelly.Wells@emnrn.nm.gov

<http://www.emnrn.state.nm.us/OCD/>

From: Stuart Hyde <shyde@ensolum.com>

Sent: Wednesday, March 26, 2025 2:07 PM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrn.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrn.nm.gov>

Cc: Adeloje, Abiodun A <aadeloje@blm.gov>; Kate Kaufman <kkaufman@hilcorp.com>; Wes Weichert <wweichert@ensolum.com>

Subject: [EXTERNAL] napp2436230674 - San Juan 28-6 Unit 93 Extension Request

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

On behalf of Hilcorp Energy Company, we are submitting this request for a 90-day extension to the reporting deadline for the San Juan 28-6 Unit 93 release. Hand auger and excavator pothole delineation activities have been performed at the Site but the lateral and vertical extent of impacts have not yet been fully delineated. At this time, we have a drill rig scheduled to continue delineation efforts on April 21, 2025.

We respectfully request an extension of the reporting deadline from March 26, 2025, to June 24, 2025.

Please let us know if you have any questions.



Stuart Hyde, PG

(Licensed in WA/TX)

Senior Managing Geologist

970-903-1607

[Ensolum, LLC](#)

in f X

"If you want to go fast, go alone. If you want to go far, go together." – African Proverb

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**

QUESTIONS

Action 451822

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 451822
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2436230674
Incident Name	NAPP2436230674 SAN JUAN 28-6 UNIT 93 @ 30-039-07227
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-039-07227] SAN JUAN 28 6 UNIT #093

Location of Release Source	
Site Name	SAN JUAN 28-6 UNIT 93
Date Release Discovered	12/26/2024
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,000
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/21/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Contact PM Stuart Hyde 970-903-1607
Please provide any information necessary for navigation to sampling site	SAN JUAN 28-6 UNIT 93 @ 30-039-07227 (36.6130981,-107.4237747) Sampling to occur Monday 4/21/25, Tuesday 4/22/25, and Wednesday 4/23/25. Delineation drilling to 30 ft bgs. Number of samples is estimated.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/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 451822

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 451822
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
shyde	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	4/14/2025

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 438709
Date: Tuesday, March 4, 2025 11:33:33 AM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2436230674.

The sampling event is expected to take place:

When: 03/10/2025 @ 09:00

Where: M-36-28N-06W 990 FSL 1090 FWL (36.6130981,-107.4237747)

Additional Information: Contact PM Stuart Hyde 970-903-1607

Additional Instructions: SAN JUAN 28-6 UNIT 93 @ 30-039-07227 (36.6130981,-107.4237747) Hand auger delineation only. Samples to be collected from boreholes.

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

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

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 472344
Date: Tuesday, June 10, 2025 10:11:12 AM

[**EXTERNAL EMAIL**]

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

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

The sampling event is expected to take place:

When: 06/17/2025 @ 09:00

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

Additional Information: Stuart Hyde, 970-903-1607 or Wes Weichert 816-266-8732

Additional Instructions: San Juan 29-6 Unit 86, coordinates 36.69158, -107.45256

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

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 472647
Date: Tuesday, June 10, 2025 10:19:28 AM

[**EXTERNAL EMAIL]**

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2436230674.

The sampling event is expected to take place:

When: 06/16/2025 @ 09:00

Where: M-36-28N-06W 990 FSL 1090 FWL (36.6130981,-107.4237747)

Additional Information: Contact PM Stuart Hyde 970-903-1607 or Wes Weichert 816-266-8732

Additional Instructions:

SAN JUAN 286 UNIT 93 @ 3003907227 (36.6130981,107.4237747) Deneation drilling to 30 ft bgs. Number of samples is estimated.

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

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 472650
Date: Tuesday, June 10, 2025 10:20:33 AM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2436230674.

The sampling event is expected to take place:

When: 06/17/2025 @ 09:00

Where: M-36-28N-06W 990 FSL 1090 FWL (36.6130981,-107.4237747)

Additional Information: Contact PM Stuart Hyde 9709031607 or Wes Weichert 816-266-8732

Additional Instructions:

SAN JUAN 286 UNIT 93 @ 3003907227 (36.6130981,107.4237747) Delineation drilling to 30 ft bgs. Number of samples is estimated.

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

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 472653
Date: Tuesday, June 10, 2025 10:22:23 AM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2436230674.

The sampling event is expected to take place:

When: 06/18/2025 @ 09:00

Where: M-36-28N-06W 990 FSL 1090 FWL (36.6130981,-107.4237747)

Additional Information: Contact PM Stuart Hyde 9709031607 or Wes Weichert 816-266-8732

Additional Instructions:

SAN JUAN 286 UNIT 93 @ 3003907227 (36.6130981,107.4237747) Delineation drilling to 30 ft bgs. Number of samples is estimated.

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

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 472655
Date: Tuesday, June 10, 2025 10:23:48 AM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2436230674.

The sampling event is expected to take place:

When: 06/19/2025 @ 09:00

Where: M-36-28N-06W 990 FSL 1090 FWL (36.6130981,-107.4237747)

Additional Information: Contact PM Stuart Hyde 9709031607 or Wes Weichert 816-266-8732

Additional Instructions:

SAN JUAN 286 UNIT 93 @ 3003907227 (36.6130981,107.4237747) Delineation drilling to 30 ft bgs. Number of samples is estimated.

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

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

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

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 488281
Date: Wednesday, July 23, 2025 4:11:32 PM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2436230674.

The sampling event is expected to take place:

When: 07/29/2025 @ 09:00

Where: M-36-28N-06W 990 FSL 1090 FWL (36.6130981,-107.4237747)

Additional Information: Contact PM Stuart Hyde 9709031607 or Wes Weichert 816-266-8732

Additional Instructions: SAN JUAN 286 UNIT 93 @ 3003907227 (36.6130981,107.4237747) Delineation drilling to 30 ft bgs. Number of samples is estimated.

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

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

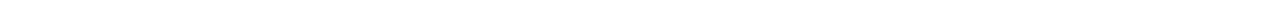
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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



APPENDIX C

Photographic Log





Photographic Log
Hilcorp Energy Company
San Juan 28-6 Unit 93
Rio Arriba County, New Mexico



Photograph: 1 Date: 3/10/2025
Description: HA03, outside berm, near HA02
View: West



Photograph: 2 Date: 3/10/2025
Description: HA04, North of release and berm
View: South



Photograph: 3 Date: 3/10/2025
Description: HA05 West of release, berm, and road
View: East



Photograph: 4 Date: 3/10/2025
Description: HA06, South of berm, North of road
View: North



APPENDIX D

Soil Laboratory Analytical Reports



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Samantha Grabert
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 2/5/2025 1:38:47 PM

JOB DESCRIPTION

San Juan 28-6 Unit 93

JOB NUMBER

885-19082-1

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
2/5/2025 1:38:47 PM

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

Client: Hilcorp Energy
Project/Site: San Juan 28-6 Unit 93

Laboratory Job ID: 885-19082-1



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	18

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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
Project: San Juan 28-6 Unit 93

Job ID: 885-19082-1

Job ID: 885-19082-1

Eurofins Albuquerque

Job Narrative 885-19082-1

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 1/30/2025 8:00 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 1.5°C.

Gasoline Range Organics

Method 8015D_GRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-20093 and analytical batch 885-20169 were outside control limits. Calibration limit for GRO is 4000ug/L. Sample matrix interference or sample non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-20136 and analytical batch 885-20122 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

Client Sample ID: HA01@7

Lab Sample ID: 885-19082-1

Date Collected: 01/29/25 14:50

Matrix: Solid

Date Received: 01/30/25 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	150		4.8	mg/Kg		01/30/25 13:21	02/01/25 01:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	246	S1+	35 - 166			01/30/25 13:21	02/01/25 01:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		01/30/25 13:21	02/01/25 01:13	1
Ethylbenzene	0.35		0.048	mg/Kg		01/30/25 13:21	02/01/25 01:13	1
Toluene	0.31		0.048	mg/Kg		01/30/25 13:21	02/01/25 01:13	1
Xylenes, Total	3.4		0.096	mg/Kg		01/30/25 13:21	02/01/25 01:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			01/30/25 13:21	02/01/25 01:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	51	F1	9.6	mg/Kg		01/31/25 10:52	01/31/25 14:56	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		01/31/25 10:52	01/31/25 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			01/31/25 10:52	01/31/25 14:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		02/04/25 10:07	02/04/25 13:38	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

Client Sample ID: HA01@17

Lab Sample ID: 885-19082-2

Date Collected: 01/29/25 14:55

Matrix: Solid

Date Received: 01/30/25 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	22		4.7	mg/Kg		01/30/25 13:21	02/01/25 02:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149		35 - 166			01/30/25 13:21	02/01/25 02:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		01/30/25 13:21	02/01/25 02:22	1
Ethylbenzene	0.047		0.047	mg/Kg		01/30/25 13:21	02/01/25 02:22	1
Toluene	ND		0.047	mg/Kg		01/30/25 13:21	02/01/25 02:22	1
Xylenes, Total	0.11		0.094	mg/Kg		01/30/25 13:21	02/01/25 02:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		48 - 145			01/30/25 13:21	02/01/25 02:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		01/31/25 10:52	01/31/25 15:28	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		01/31/25 10:52	01/31/25 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			01/31/25 10:52	01/31/25 15:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		02/04/25 10:07	02/04/25 13:48	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

Client Sample ID: HA02@5

Lab Sample ID: 885-19082-3

Date Collected: 01/29/25 15:00

Matrix: Solid

Date Received: 01/30/25 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		01/30/25 13:21	02/01/25 03:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			01/30/25 13:21	02/01/25 03:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		01/30/25 13:21	02/01/25 03:31	1
Ethylbenzene	ND		0.047	mg/Kg		01/30/25 13:21	02/01/25 03:31	1
Toluene	ND		0.047	mg/Kg		01/30/25 13:21	02/01/25 03:31	1
Xylenes, Total	ND		0.093	mg/Kg		01/30/25 13:21	02/01/25 03:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		48 - 145			01/30/25 13:21	02/01/25 03:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		01/31/25 10:52	01/31/25 15:39	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		01/31/25 10:52	01/31/25 15:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			01/31/25 10:52	01/31/25 15:39	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		02/04/25 10:07	02/04/25 13:59	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

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

Lab Sample ID: MB 885-20093/1-A
Matrix: Solid
Analysis Batch: 20169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20093

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		01/30/25 13:21	02/01/25 00:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			01/30/25 13:21	02/01/25 00:49	1

Lab Sample ID: LCS 885-20093/2-A
Matrix: Solid
Analysis Batch: 20169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	24.5		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	209		35 - 166				

Lab Sample ID: 885-19082-1 MS
Matrix: Solid
Analysis Batch: 20169

Client Sample ID: HA01@7
Prep Type: Total/NA
Prep Batch: 20093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	150		23.9	199	E 4	mg/Kg		214	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	399		35 - 166						

Lab Sample ID: 885-19082-1 MSD
Matrix: Solid
Analysis Batch: 20169

Client Sample ID: HA01@7
Prep Type: Total/NA
Prep Batch: 20093

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	150		23.9	209	E 4	mg/Kg		259	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	401		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-20093/1-A
Matrix: Solid
Analysis Batch: 20170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20093

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		01/30/25 13:21	02/01/25 00:49	1
Ethylbenzene	ND		0.050	mg/Kg		01/30/25 13:21	02/01/25 00:49	1
Toluene	ND		0.050	mg/Kg		01/30/25 13:21	02/01/25 00:49	1

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

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

Lab Sample ID: MB 885-20093/1-A
 Matrix: Solid
 Analysis Batch: 20170

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 20093

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		01/30/25 13:21	02/01/25 00:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		48 - 145	01/30/25 13:21	02/01/25 00:49	1

Lab Sample ID: LCS 885-20093/3-A
 Matrix: Solid
 Analysis Batch: 20170

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 20093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.904		mg/Kg		90	70 - 130
Ethylbenzene	1.00	0.887		mg/Kg		89	70 - 130
m&p-Xylene	2.00	1.76		mg/Kg		88	70 - 130
o-Xylene	1.00	0.867		mg/Kg		87	70 - 130
Toluene	1.00	0.896		mg/Kg		90	70 - 130
Xylenes, Total	3.00	2.63		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		48 - 145

Lab Sample ID: 885-19082-2 MS
 Matrix: Solid
 Analysis Batch: 20170

Client Sample ID: HA01@17
 Prep Type: Total/NA
 Prep Batch: 20093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.943	0.892		mg/Kg		95	70 - 130
Ethylbenzene	0.047		0.943	0.918		mg/Kg		92	70 - 130
m&p-Xylene	ND		1.89	1.81		mg/Kg		91	70 - 130
o-Xylene	ND		0.943	0.902		mg/Kg		93	70 - 130
Toluene	ND		0.943	0.903		mg/Kg		96	70 - 130
Xylenes, Total	0.11		2.83	2.71		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		48 - 145

Lab Sample ID: 885-19082-2 MSD
 Matrix: Solid
 Analysis Batch: 20170

Client Sample ID: HA01@17
 Prep Type: Total/NA
 Prep Batch: 20093

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.945	0.878		mg/Kg		93	70 - 130	2	20
Ethylbenzene	0.047		0.945	0.895		mg/Kg		90	70 - 130	3	20
m&p-Xylene	ND		1.89	1.81		mg/Kg		91	70 - 130	0	20
o-Xylene	ND		0.945	0.877		mg/Kg		90	70 - 130	3	20
Toluene	ND		0.945	0.886		mg/Kg		94	70 - 130	2	20
Xylenes, Total	0.11		2.84	2.69		mg/Kg		91	70 - 130	1	20

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

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

Lab Sample ID: 885-19082-2 MSD
 Matrix: Solid
 Analysis Batch: 20170

Client Sample ID: HA01@17
 Prep Type: Total/NA
 Prep Batch: 20093

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		48 - 145

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

Lab Sample ID: MB 885-20136/1-A
 Matrix: Solid
 Analysis Batch: 20122

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 20136

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		01/31/25 10:52	01/31/25 14:35	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		01/31/25 10:52	01/31/25 14:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134	01/31/25 10:52	01/31/25 14:35	1

Lab Sample ID: LCS 885-20136/2-A
 Matrix: Solid
 Analysis Batch: 20122

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 20136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	52.3		mg/Kg		105	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	96		62 - 134

Lab Sample ID: 885-19082-1 MS
 Matrix: Solid
 Analysis Batch: 20122

Client Sample ID: HA01@7
 Prep Type: Total/NA
 Prep Batch: 20136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	51	F1	49.4	111		mg/Kg		121	44 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	101		62 - 134

Lab Sample ID: 885-19082-1 MSD
 Matrix: Solid
 Analysis Batch: 20122

Client Sample ID: HA01@7
 Prep Type: Total/NA
 Prep Batch: 20136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	51	F1	49.1	121	F1	mg/Kg		142	44 - 136	9	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	101		62 - 134

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-20265/1-A
Matrix: Solid
Analysis Batch: 20268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20265

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		02/04/25 09:52	02/04/25 10:55	1

Lab Sample ID: LCS 885-20265/2-A
Matrix: Solid
Analysis Batch: 20268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	30.5		mg/Kg		102	90 - 110

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

GC VOA

Prep Batch: 20093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19082-1	HA01@7	Total/NA	Solid	5030C	
885-19082-2	HA01@17	Total/NA	Solid	5030C	
885-19082-3	HA02@5	Total/NA	Solid	5030C	
MB 885-20093/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-20093/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-20093/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-19082-1 MS	HA01@7	Total/NA	Solid	5030C	
885-19082-1 MSD	HA01@7	Total/NA	Solid	5030C	
885-19082-2 MS	HA01@17	Total/NA	Solid	5030C	
885-19082-2 MSD	HA01@17	Total/NA	Solid	5030C	

Analysis Batch: 20169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19082-1	HA01@7	Total/NA	Solid	8015M/D	20093
885-19082-2	HA01@17	Total/NA	Solid	8015M/D	20093
885-19082-3	HA02@5	Total/NA	Solid	8015M/D	20093
MB 885-20093/1-A	Method Blank	Total/NA	Solid	8015M/D	20093
LCS 885-20093/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	20093
885-19082-1 MS	HA01@7	Total/NA	Solid	8015M/D	20093
885-19082-1 MSD	HA01@7	Total/NA	Solid	8015M/D	20093

Analysis Batch: 20170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19082-1	HA01@7	Total/NA	Solid	8021B	20093
885-19082-2	HA01@17	Total/NA	Solid	8021B	20093
885-19082-3	HA02@5	Total/NA	Solid	8021B	20093
MB 885-20093/1-A	Method Blank	Total/NA	Solid	8021B	20093
LCS 885-20093/3-A	Lab Control Sample	Total/NA	Solid	8021B	20093
885-19082-2 MS	HA01@17	Total/NA	Solid	8021B	20093
885-19082-2 MSD	HA01@17	Total/NA	Solid	8021B	20093

GC Semi VOA

Analysis Batch: 20122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19082-1	HA01@7	Total/NA	Solid	8015M/D	20136
885-19082-2	HA01@17	Total/NA	Solid	8015M/D	20136
885-19082-3	HA02@5	Total/NA	Solid	8015M/D	20136
MB 885-20136/1-A	Method Blank	Total/NA	Solid	8015M/D	20136
LCS 885-20136/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	20136
885-19082-1 MS	HA01@7	Total/NA	Solid	8015M/D	20136
885-19082-1 MSD	HA01@7	Total/NA	Solid	8015M/D	20136

Prep Batch: 20136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19082-1	HA01@7	Total/NA	Solid	SHAKE	
885-19082-2	HA01@17	Total/NA	Solid	SHAKE	
885-19082-3	HA02@5	Total/NA	Solid	SHAKE	
MB 885-20136/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-20136/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-19082-1 MS	HA01@7	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

GC Semi VOA (Continued)

Prep Batch: 20136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19082-1 MSD	HA01@7	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 20265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19082-1	HA01@7	Total/NA	Solid	300_Prep	
885-19082-2	HA01@17	Total/NA	Solid	300_Prep	
885-19082-3	HA02@5	Total/NA	Solid	300_Prep	
MB 885-20265/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-20265/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 20268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19082-1	HA01@7	Total/NA	Solid	300.0	20265
885-19082-2	HA01@17	Total/NA	Solid	300.0	20265
885-19082-3	HA02@5	Total/NA	Solid	300.0	20265
MB 885-20265/1-A	Method Blank	Total/NA	Solid	300.0	20265
LCS 885-20265/2-A	Lab Control Sample	Total/NA	Solid	300.0	20265

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

Client Sample ID: HA01@7

Lab Sample ID: 885-19082-1

Date Collected: 01/29/25 14:50

Matrix: Solid

Date Received: 01/30/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20093	JP	EET ALB	01/30/25 13:21
Total/NA	Analysis	8015M/D		1	20169	AT	EET ALB	02/01/25 01:13
Total/NA	Prep	5030C			20093	JP	EET ALB	01/30/25 13:21
Total/NA	Analysis	8021B		1	20170	AT	EET ALB	02/01/25 01:13
Total/NA	Prep	SHAKE			20136	EM	EET ALB	01/31/25 10:52
Total/NA	Analysis	8015M/D		1	20122	MI	EET ALB	01/31/25 14:56
Total/NA	Prep	300_Prep			20265	RC	EET ALB	02/04/25 10:07
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 13:38

Client Sample ID: HA01@17

Lab Sample ID: 885-19082-2

Date Collected: 01/29/25 14:55

Matrix: Solid

Date Received: 01/30/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20093	JP	EET ALB	01/30/25 13:21
Total/NA	Analysis	8015M/D		1	20169	AT	EET ALB	02/01/25 02:22
Total/NA	Prep	5030C			20093	JP	EET ALB	01/30/25 13:21
Total/NA	Analysis	8021B		1	20170	AT	EET ALB	02/01/25 02:22
Total/NA	Prep	SHAKE			20136	EM	EET ALB	01/31/25 10:52
Total/NA	Analysis	8015M/D		1	20122	MI	EET ALB	01/31/25 15:28
Total/NA	Prep	300_Prep			20265	RC	EET ALB	02/04/25 10:07
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 13:48

Client Sample ID: HA02@5

Lab Sample ID: 885-19082-3

Date Collected: 01/29/25 15:00

Matrix: Solid

Date Received: 01/30/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20093	JP	EET ALB	01/30/25 13:21
Total/NA	Analysis	8015M/D		1	20169	AT	EET ALB	02/01/25 03:31
Total/NA	Prep	5030C			20093	JP	EET ALB	01/30/25 13:21
Total/NA	Analysis	8021B		1	20170	AT	EET ALB	02/01/25 03:31
Total/NA	Prep	SHAKE			20136	EM	EET ALB	01/31/25 10:52
Total/NA	Analysis	8015M/D		1	20122	MI	EET ALB	01/31/25 15:39
Total/NA	Prep	300_Prep			20265	RC	EET ALB	02/04/25 10:07
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 13:59

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-19082-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-25-25



Chain-of-Custody Record

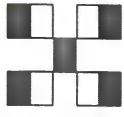
Client: HEC
 Alt: Samantha Grabert
 Mailing Address:
 Project Name: San Juan 28-6 Unit 93
 Project #:

Turn-Around Time:
 Standard Rush
 Project Manager: Stuart Hyde
 Sampler: PA
 On Ice: Yes No Yogi
 # of Coolers: 1
 Cooler Temp (including CF): 14-0.1-15 (°C)

Phone #: _____
 email or Fax#: Samantha.Grabert@hcsol.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance MTBE / TMBs (8021)
 NELAC Other

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/29	1450	Soil	HA01 @ 7	402.1	Carl	
	1455	↓	HA01 @ 17	↓	↓	
	1500	↓	HA02 @ 5	↓	↓	

Relinquished by: PA Date: 1/29/19 Time: 1650
 Relinquished by: Christina Wacker Date: 1/29/19 Time: 1719
 Received by: [Signature] Date: 1/29/19 Time: 1650
 Received by: [Signature] Date: 1/30/19 Time: 8:00



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107



885-19082 COC

Analysis Request

BTEX, MTBE / TMBs (8021)	X	
TPH:8015D (GRO / DRO / MRO)	X	
8081 Pesticides/8082 PCB's		
EDB (Method 504.1)		
PAHs by 8310 or 8270SIMS		
RCRA 8 Metals		
CF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	X	↓
8260 (VOA)		
8270 (Semi-VOA)		
Total Coliform (Present/Absent)		

Remarks:
PLZ CC: Panderson
Wwairchent @ ensolom.com

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.



Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-19082-1

Login Number: 19082

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.	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	

Report to:
Wes Weichert



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: San Juan 28-6 #93

Work Order: E504216

Job Number: 17051-0002

Received: 4/21/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/23/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 4/23/25

Wes Weichert
PO Box 61529
Houston, TX 77208

Project Name: San Juan 28-6 #93
Workorder: E504216
Date Received: 4/21/2025 4:32:00PM

Wes Weichert,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/21/2025 4:32:00PM, under the Project Name: San Juan 28-6 #93.

The analytical test results summarized in this report with the Project Name: San Juan 28-6 #93 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 @ 25'	5
BH01 @ 31'	6
BH01 @ 35'	7
BH01 @ 41'	8
BH01 @ 45'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 04/23/25 14:45
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 @ 25'	E504216-01A	Soil	04/21/25	04/21/25	Glass Jar, 4 oz.
BH01 @ 31'	E504216-02A	Soil	04/21/25	04/21/25	Glass Jar, 4 oz.
BH01 @ 35'	E504216-03A	Soil	04/21/25	04/21/25	Glass Jar, 4 oz.
BH01 @ 41'	E504216-04A	Soil	04/21/25	04/21/25	Glass Jar, 4 oz.
BH01 @ 45'	E504216-05A	Soil	04/21/25	04/21/25	Glass Jar, 4 oz.



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 4/23/2025 2:45:16PM
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BH01 @ 25'
E504216-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Benzene	ND	0.0250	1	04/22/25	04/22/25	
Ethylbenzene	0.0422	0.0250	1	04/22/25	04/22/25	
Toluene	ND	0.0250	1	04/22/25	04/22/25	
o-Xylene	0.110	0.0250	1	04/22/25	04/22/25	
p,m-Xylene	0.310	0.0500	1	04/22/25	04/22/25	
Total Xylenes	0.420	0.0250	1	04/22/25	04/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.6 %	70-130	04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/25	04/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2517021
Diesel Range Organics (C10-C28)	52.3	25.0	1	04/22/25	04/23/25	T17
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/25	04/23/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	04/22/25	04/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2517022
Chloride	ND	20.0	1	04/22/25	04/22/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 4/23/2025 2:45:16PM
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BH01 @ 31'

E504216-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Benzene	ND	0.0250	1	04/22/25	04/22/25	
Ethylbenzene	ND	0.0250	1	04/22/25	04/22/25	
Toluene	ND	0.0250	1	04/22/25	04/22/25	
o-Xylene	0.0325	0.0250	1	04/22/25	04/22/25	
p,m-Xylene	0.0728	0.0500	1	04/22/25	04/22/25	
Total Xylenes	0.105	0.0250	1	04/22/25	04/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %	70-130	04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/25	04/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.0 %	70-130	04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2517021
Diesel Range Organics (C10-C28)	33.3	25.0	1	04/22/25	04/23/25	T17
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/25	04/23/25	
<i>Surrogate: n-Nonane</i>		94.3 %	61-141	04/22/25	04/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2517022
Chloride	ND	20.0	1	04/22/25	04/22/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 4/23/2025 2:45:16PM
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BH01 @ 35'

E504216-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Benzene	ND	0.0250	1	04/22/25	04/22/25	
Ethylbenzene	ND	0.0250	1	04/22/25	04/22/25	
Toluene	ND	0.0250	1	04/22/25	04/22/25	
o-Xylene	ND	0.0250	1	04/22/25	04/22/25	
p,m-Xylene	ND	0.0500	1	04/22/25	04/22/25	
Total Xylenes	ND	0.0250	1	04/22/25	04/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.8 %	70-130	04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/25	04/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.7 %	70-130	04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2517021
Diesel Range Organics (C10-C28)	25.4	25.0	1	04/22/25	04/23/25	T17
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/25	04/23/25	
<i>Surrogate: n-Nonane</i>						
		89.7 %	61-141	04/22/25	04/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2517022
Chloride	ND	20.0	1	04/22/25	04/22/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 4/23/2025 2:45:16PM
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BH01 @ 41'
E504216-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Benzene	ND	0.0250	1	04/22/25	04/22/25	
Ethylbenzene	ND	0.0250	1	04/22/25	04/22/25	
Toluene	ND	0.0250	1	04/22/25	04/22/25	
o-Xylene	ND	0.0250	1	04/22/25	04/22/25	
p,m-Xylene	ND	0.0500	1	04/22/25	04/22/25	
Total Xylenes	ND	0.0250	1	04/22/25	04/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/25	04/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2517021
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/25	04/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/25	04/23/25	
<i>Surrogate: n-Nonane</i>						
	86.6 %	61-141		04/22/25	04/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2517022
Chloride	ND	20.0	1	04/22/25	04/22/25	

Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 4/23/2025 2:45:16PM
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BH01 @ 45'

E504216-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Benzene	ND	0.0250	1	04/22/25	04/22/25	
Ethylbenzene	ND	0.0250	1	04/22/25	04/22/25	
Toluene	ND	0.0250	1	04/22/25	04/22/25	
o-Xylene	ND	0.0250	1	04/22/25	04/22/25	
p,m-Xylene	ND	0.0500	1	04/22/25	04/22/25	
Total Xylenes	ND	0.0250	1	04/22/25	04/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.9 %	70-130	04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517026
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/25	04/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.3 %	70-130	04/22/25	04/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2517021
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/25	04/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/25	04/23/25	
<i>Surrogate: n-Nonane</i>						
		88.6 %	61-141	04/22/25	04/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2517022
Chloride	ND	20.0	1	04/22/25	04/22/25	



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 4/23/2025 2:45:16PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2517026-BLK1)

Prepared: 04/22/25 Analyzed: 04/22/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

LCS (2517026-BS1)

Prepared: 04/22/25 Analyzed: 04/22/25

Benzene	4.88	0.0250	5.00		97.6	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

Matrix Spike (2517026-MS1)

Source: E504216-04

Prepared: 04/22/25 Analyzed: 04/22/25

Benzene	5.72	0.0250	5.00	ND	114	70-130			
Ethylbenzene	5.91	0.0250	5.00	ND	118	70-130			
Toluene	5.88	0.0250	5.00	ND	118	70-130			
o-Xylene	5.79	0.0250	5.00	ND	116	70-130			
p,m-Xylene	11.9	0.0500	10.0	ND	119	70-130			
Total Xylenes	17.6	0.0250	15.0	ND	118	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

Matrix Spike Dup (2517026-MSD1)

Source: E504216-04

Prepared: 04/22/25 Analyzed: 04/22/25

Benzene	5.44	0.0250	5.00	ND	109	70-130	4.97	27	
Ethylbenzene	5.61	0.0250	5.00	ND	112	70-130	5.14	26	
Toluene	5.58	0.0250	5.00	ND	112	70-130	5.24	20	
o-Xylene	5.50	0.0250	5.00	ND	110	70-130	5.15	25	
p,m-Xylene	11.3	0.0500	10.0	ND	113	70-130	5.16	23	
Total Xylenes	16.8	0.0250	15.0	ND	112	70-130	5.16	26	
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 4/23/2025 2:45:16PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517026-BLK1)

Prepared: 04/22/25 Analyzed: 04/22/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		95.9	70-130			

LCS (2517026-BS2)

Prepared: 04/22/25 Analyzed: 04/22/25

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0		86.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2517026-MS2)

Source: E504216-04

Prepared: 04/22/25 Analyzed: 04/22/25

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2517026-MSD2)

Source: E504216-04

Prepared: 04/22/25 Analyzed: 04/22/25

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.8	70-130	1.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 28-6 #93	Reported: 4/23/2025 2:45:16PM
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Wes Weichert	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517021-BLK1)

Prepared: 04/22/25 Analyzed: 04/23/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.6	61-141			

LCS (2517021-BS1)

Prepared: 04/22/25 Analyzed: 04/23/25

Diesel Range Organics (C10-C28)	243	25.0	250		97.1	66-144			
Surrogate: n-Nonane	44.6		50.0		89.2	61-141			

Matrix Spike (2517021-MS1)

Source: E504204-01

Prepared: 04/22/25 Analyzed: 04/23/25

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	56-156			
Surrogate: n-Nonane	44.9		50.0		89.7	61-141			

Matrix Spike Dup (2517021-MSD1)

Source: E504204-01

Prepared: 04/22/25 Analyzed: 04/23/25

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.1	56-156	2.05	20	
Surrogate: n-Nonane	43.8		50.0		87.5	61-141			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 4/23/2025 2:45:16PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517022-BLK1)

Prepared: 04/22/25 Analyzed: 04/22/25

Chloride	ND	20.0							
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LCS (2517022-BS1)

Prepared: 04/22/25 Analyzed: 04/22/25

Chloride	253	20.0	250		101	90-110			
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Matrix Spike (2517022-MS1)

Source: E504216-02

Prepared: 04/22/25 Analyzed: 04/22/25

Chloride	256	20.0	250	ND	102	80-120			
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Matrix Spike Dup (2517022-MSD1)

Source: E504216-02

Prepared: 04/22/25 Analyzed: 04/22/25

Chloride	256	20.0	250	ND	103	80-120	0.322	20	
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QC Summary Report Comment:

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



Definitions and Notes

Hilcorp Energy Co	Project Name:	San Juan 28-6 #93	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Wes Weichert	04/23/25 14:45

T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



E504216

Job# 17051-0002

Chain-of-Custody Record

Client: Hilcorp Energy Co

Mailing Address:

Phone #:

email or Fax#: kkauffman@hilcorp.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush 24 HOUR

Project Name:
San Juan 28-6 # 93

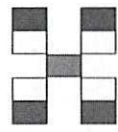
Project #:
07A 1988 157

Project Manager:
Wes Weichert
wweichert@ensolum.com

Sampler: Tracy Dombrowski

On Ice: Yes No

of Coolers:
 Cooler Temp (including CF): _____ (°C)



ENVIROTECH
HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Cooler Temp (°C)	Analysis Request															
								BTEX	MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₂ , NO ₃ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
4/21/25	1230	SOIL	BH01 @ 25'	1-4oz jar	COOL	1	5.6°	X	X							X							
	1245		BH01 @ 31'			2	5.4°																
	1313		BH01 @ 35'			3	5.6°																
	1355		BH01 @ 41'			4	5.7°																
	1409		BH01 @ 45'			5	5.5°																

Date: 4/21 Time: 1632 Relinquished by: [Signature]

Received by: [Signature] Via: _____ Date: 4.21.25 Time: 16:32

Remarks: CC: Stuart Hyde - shyde@ensolum.com
Kate Kaufman - kkauffman@hilcorp.com

Released to Imaging: 12/10/2025 10:44:02 AM

Received by OCD: 8/22/2025 1:08:55 PM

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.

Envirotech Analytical Laboratory

Printed: 4/22/2025 10:29:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Hilcorp Energy Co	Date Received: 04/21/25 16:32	Work Order ID: E504216
Phone: -	Date Logged In: 04/21/25 16:43	Logged In By: Caitlin Mars
Email: wwweichert@ensolum.com	Due Date: 04/22/25 17:00 (1 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Tracey D.

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature:

Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Comments/Resolution

Individual sample temperatures listed on COC.

Client Instruction

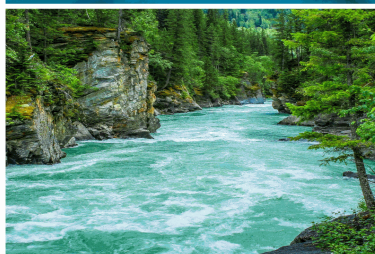
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Stuart Hyde



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: San Juan 28-6 #93

Work Order: E506149

Job Number: 17051-0002

Received: 6/17/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 6/19/25

Stuart Hyde
PO Box 61529
Houston, TX 77208

Project Name: San Juan 28-6 #93
Workorder: E506149
Date Received: 6/17/2025 4:20:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/17/2025 4:20:00PM, under the Project Name: San Juan 28-6 #93.

The analytical test results summarized in this report with the Project Name: San Juan 28-6 #93 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH09 @ 19-21	5
BH09 @ 24-26	6
BH09 @ 29-31	7
BH10 @ 4-6	8
BH10 @ 34-36	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 06/19/25 14:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 @ 19-21	E506149-01A	Soil	06/17/25	06/17/25	Glass Jar, 4 oz.
BH09 @ 24-26	E506149-02A	Soil	06/17/25	06/17/25	Glass Jar, 4 oz.
BH09 @ 29-31	E506149-03A	Soil	06/17/25	06/17/25	Glass Jar, 4 oz.
BH10 @ 4-6	E506149-04A	Soil	06/17/25	06/17/25	Glass Jar, 4 oz.
BH10 @ 34-36	E506149-05A	Soil	06/17/25	06/17/25	Glass Jar, 4 oz.



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/19/2025 2:57:32PM
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BH09 @ 19-21

E506149-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Benzene	ND	0.0250	1	06/18/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/18/25	06/18/25	
Toluene	ND	0.0250	1	06/18/25	06/18/25	
o-Xylene	ND	0.0250	1	06/18/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/18/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/18/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.4 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.4 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525066
Diesel Range Organics (C10-C28)	278	25.0	1	06/18/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/25	06/18/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	06/18/25	06/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2525068
Chloride	ND	20.0	1	06/18/25	06/18/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/19/2025 2:57:32PM
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BH09 @ 24-26

E506149-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Benzene	ND	0.0250	1	06/18/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/18/25	06/18/25	
Toluene	ND	0.0250	1	06/18/25	06/18/25	
o-Xylene	ND	0.0250	1	06/18/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/18/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/18/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.7 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525066
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/25	06/18/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	06/18/25	06/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2525068
Chloride	ND	20.0	1	06/18/25	06/18/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/19/2025 2:57:32PM
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BH09 @ 29-31

E506149-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Benzene	ND	0.0250	1	06/18/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/18/25	06/18/25	
Toluene	ND	0.0250	1	06/18/25	06/18/25	
o-Xylene	ND	0.0250	1	06/18/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/18/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/18/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525066
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/25	06/18/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	06/18/25	06/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2525068
Chloride	ND	20.0	1	06/18/25	06/18/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/19/2025 2:57:32PM
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BH10 @ 4-6

E506149-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Benzene	ND	0.0250	1	06/18/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/18/25	06/18/25	
Toluene	ND	0.0250	1	06/18/25	06/18/25	
o-Xylene	ND	0.0250	1	06/18/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/18/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/18/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.6 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2525066
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/25	06/18/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	06/18/25	06/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2525068
Chloride	ND	20.0	1	06/18/25	06/18/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/19/2025 2:57:32PM
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BH10 @ 34-36

E506149-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Benzene	ND	0.0250	1	06/18/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/18/25	06/18/25	
Toluene	ND	0.0250	1	06/18/25	06/18/25	
o-Xylene	ND	0.0250	1	06/18/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/18/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/18/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.7 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525061
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	06/18/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525066
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/25	06/18/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	06/18/25	06/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2525068
Chloride	ND	20.0	1	06/18/25	06/18/25	



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/19/2025 2:57:32PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525061-BLK1)

Prepared: 06/18/25 Analyzed: 06/19/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.02		8.00		87.8	70-130			

LCS (2525061-BS1)

Prepared: 06/18/25 Analyzed: 06/18/25

Benzene	5.11	0.0250	5.00		102	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.88		8.00		86.0	70-130			

Matrix Spike (2525061-MS1)

Source: E506148-02

Prepared: 06/18/25 Analyzed: 06/18/25

Benzene	5.66	0.0250	5.00	ND	113	70-130			
Ethylbenzene	5.55	0.0250	5.00	ND	111	70-130			
Toluene	5.62	0.0250	5.00	ND	112	70-130			
o-Xylene	5.50	0.0250	5.00	ND	110	70-130			
p,m-Xylene	11.2	0.0500	10.0	ND	112	70-130			
Total Xylenes	16.7	0.0250	15.0	ND	111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.02		8.00		87.7	70-130			

Matrix Spike Dup (2525061-MSD1)

Source: E506148-02

Prepared: 06/18/25 Analyzed: 06/18/25

Benzene	5.62	0.0250	5.00	ND	112	70-130	0.665	27	
Ethylbenzene	5.53	0.0250	5.00	ND	111	70-130	0.489	26	
Toluene	5.60	0.0250	5.00	ND	112	70-130	0.463	20	
o-Xylene	5.45	0.0250	5.00	ND	109	70-130	0.832	25	
p,m-Xylene	11.1	0.0500	10.0	ND	111	70-130	0.532	23	
Total Xylenes	16.6	0.0250	15.0	ND	111	70-130	0.631	26	
Surrogate: 4-Bromochlorobenzene-PID	6.94		8.00		86.7	70-130			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/19/2025 2:57:32PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525061-BLK1)

Prepared: 06/18/25 Analyzed: 06/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS (2525061-BS2)

Prepared: 06/18/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

Matrix Spike (2525061-MS2)

Source: E506148-02

Prepared: 06/18/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			

Matrix Spike Dup (2525061-MSD2)

Source: E506148-02

Prepared: 06/18/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130	3.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.8	70-130			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/19/2025 2:57:32PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525066-BLK1)

Prepared: 06/18/25 Analyzed: 06/18/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	55.7		50.0		111	61-141			

LCS (2525066-BS1)

Prepared: 06/18/25 Analyzed: 06/18/25

Diesel Range Organics (C10-C28)	273	25.0	250		109	66-144			
Surrogate: <i>n</i> -Nonane	52.0		50.0		104	61-141			

Matrix Spike (2525066-MS1)

Source: E506149-03

Prepared: 06/18/25 Analyzed: 06/18/25

Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	56-156			
Surrogate: <i>n</i> -Nonane	54.6		50.0		109	61-141			

Matrix Spike Dup (2525066-MSD1)

Source: E506149-03

Prepared: 06/18/25 Analyzed: 06/18/25

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	56-156	1.16	20	
Surrogate: <i>n</i> -Nonane	54.2		50.0		108	61-141			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/19/2025 2:57:32PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525068-BLK1)

Prepared: 06/18/25 Analyzed: 06/18/25

Chloride ND 20.0

LCS (2525068-BS1)

Prepared: 06/18/25 Analyzed: 06/18/25

Chloride 254 20.0 250 102 90-110

Matrix Spike (2525068-MS1)

Source: E506143-03

Prepared: 06/18/25 Analyzed: 06/18/25

Chloride 251 20.0 250 ND 100 80-120

Matrix Spike Dup (2525068-MSD1)

Source: E506143-03

Prepared: 06/18/25 Analyzed: 06/18/25

Chloride 251 20.0 250 ND 101 80-120 0.214 20

QC Summary Report Comment:

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



Definitions and Notes

Hilcorp Energy Co	Project Name:	San Juan 28-6 #93	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	06/19/25 14:57

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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





Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State				
Client: <u>Hilcorp</u>				Company: <u>Hilcorp</u>				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: <u>Don Juan 226 #93</u>				Address:				<u>E500149</u>		<u>17051-0002</u>		<u>X</u>								
Project Manager: <u>Stuart Kyle</u>				City, State, Zip:																
Address:				Phone:																
City, State, Zip:				Email: <u>kkauffman@hilcorp.com</u>																
Phone:				Miscellaneous:																
Email: <u>shyde@ensdum.com</u>																				
Sample Information										Analysis and Method						EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	FIELD	FILTER	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDQC - NH	BGDQC - TX	SDWA	CWA	RCRA	
1245	6-17	soil	1x4oz	BH09 @ 19-21			1	X	X	X	X	X								
1250				BH09 @ 24-26			2													
1255				BH09 @ 29-31			3													
1414				BH10 @ 4-6			4													
1441				BH10 @ 34-36			5													
Additional Instructions: <u>cc: zmyers@ensdum.com, wweichert@ensdum.com, hpecke@ensdum.com</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by:																				
Relinquished by: (Signature) <u>[Signature]</u>				Date: <u>6-17-25</u>		Time: <u>1620</u>		Received by: (Signature) <u>[Signature]</u>				Date: <u>6-17-25</u>		Time: <u>1620</u>		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> N				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time						
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time						
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time						
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Envirotech Analytical Laboratory

Printed: 6/17/2025 4:23:44PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Hilcorp Energy Co Date Received: 06/17/25 16:20 Work Order ID: E506149
Phone: - Date Logged In: 06/17/25 16:20 Logged In By: Caitlin Mars
Email: shyde@ensolum.com Due Date: 06/18/25 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Zach Myers

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for client instruction.

Comments/Resolution

Sampled by not provided on COC.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Stuart Hyde



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: San Juan 28-6 #93

Work Order: E506158

Job Number: 17051-0002

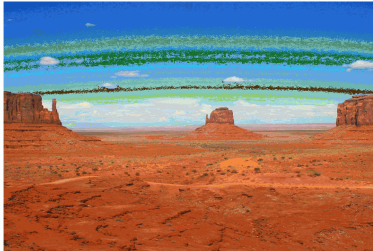
Received: 6/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



5796 U.S. Hwy 64
Farmington, NM 87401

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





Date Reported: 6/20/25

Stuart Hyde
PO Box 61529
Houston, TX 77208

Project Name: San Juan 28-6 #93
Workorder: E506158
Date Received: 6/18/2025 3:14:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/18/2025 3:14:00PM, under the Project Name: San Juan 28-6 #93.

The analytical test results summarized in this report with the Project Name: San Juan 28-6 #93 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Cell: 775-287-1762
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH02d @ 39-41	5
BH02d @ 54-56	6
BH06 @ 4-6	7
BH06 @ 44-46	8
BH06 @ 49-51	9
BH06 @ 54-56	10
BH07 @ 44-46	11
BH07 @ 49-51	12
BH07 @ 54-56	13
QC Summary Data	14
QC - Volatile Organics by EPA 8021B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

Sample Summary

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 06/20/25 14:37
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02d @ 39-41	E506158-01A	Soil	06/17/25	06/18/25	Glass Jar, 4 oz.
BH02d @ 54-56	E506158-02A	Soil	06/17/25	06/18/25	Glass Jar, 4 oz.
BH06 @ 4-6	E506158-03A	Soil	06/18/25	06/18/25	Glass Jar, 4 oz.
BH06 @ 44-46	E506158-04A	Soil	06/18/25	06/18/25	Glass Jar, 4 oz.
BH06 @ 49-51	E506158-05A	Soil	06/18/25	06/18/25	Glass Jar, 4 oz.
BH06 @ 54-56	E506158-06A	Soil	06/18/25	06/18/25	Glass Jar, 4 oz.
BH07 @ 44-46	E506158-07A	Soil	06/18/25	06/18/25	Glass Jar, 4 oz.
BH07 @ 49-51	E506158-08A	Soil	06/18/25	06/18/25	Glass Jar, 4 oz.
BH07 @ 54-56	E506158-09A	Soil	06/18/25	06/18/25	Glass Jar, 4 oz.



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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BH02d @ 39-41

E506158-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2525083	
Benzene	ND	0.125	5	06/19/25	06/20/25	
Ethylbenzene	1.27	0.125	5	06/19/25	06/20/25	
Toluene	11.4	0.125	5	06/19/25	06/20/25	
o-Xylene	3.60	0.125	5	06/19/25	06/20/25	
p,m-Xylene	17.2	0.250	5	06/19/25	06/20/25	
Total Xylenes	20.7	0.125	5	06/19/25	06/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2525083	
Gasoline Range Organics (C6-C10)	430	100	5	06/19/25	06/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.3 %	70-130		06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2525073	
Diesel Range Organics (C10-C28)	116	25.0	1	06/19/25	06/19/25	T9
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/25	06/19/25	
<i>Surrogate: n-Nonane</i>						
	143 %	61-141		06/19/25	06/19/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2525080	
Chloride	ND	20.0	1	06/19/25	06/19/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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BH02d @ 54-56

E506158-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Benzene	ND	0.0250	1	06/19/25	06/20/25	
Ethylbenzene	ND	0.0250	1	06/19/25	06/20/25	
Toluene	0.341	0.0250	1	06/19/25	06/20/25	
o-Xylene	0.0422	0.0250	1	06/19/25	06/20/25	
p,m-Xylene	0.224	0.0500	1	06/19/25	06/20/25	
Total Xylenes	0.266	0.0250	1	06/19/25	06/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.6 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/25	06/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.7 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525073
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/25	06/20/25	
<i>Surrogate: n-Nonane</i>						
		121 %	61-141	06/19/25	06/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2525080
Chloride	ND	20.0	1	06/19/25	06/19/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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BH06 @ 4-6

E506158-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Benzene	ND	0.0250	1	06/19/25	06/20/25	
Ethylbenzene	ND	0.0250	1	06/19/25	06/20/25	
Toluene	ND	0.0250	1	06/19/25	06/20/25	
o-Xylene	ND	0.0250	1	06/19/25	06/20/25	
p,m-Xylene	ND	0.0500	1	06/19/25	06/20/25	
Total Xylenes	ND	0.0250	1	06/19/25	06/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.8 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/25	06/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.7 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525073
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/25	06/20/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	06/19/25	06/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2525080
Chloride	ND	20.0	1	06/19/25	06/19/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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BH06 @ 44-46

E506158-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Benzene	ND	0.0250	1	06/19/25	06/20/25	
Ethylbenzene	ND	0.0250	1	06/19/25	06/20/25	
Toluene	ND	0.0250	1	06/19/25	06/20/25	
o-Xylene	ND	0.0250	1	06/19/25	06/20/25	
p,m-Xylene	ND	0.0500	1	06/19/25	06/20/25	
Total Xylenes	ND	0.0250	1	06/19/25	06/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.1 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/25	06/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.1 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2525073
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/25	06/20/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	06/19/25	06/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2525080
Chloride	ND	20.0	1	06/19/25	06/19/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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BH06 @ 49-51

E506158-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Benzene	ND	0.0250	1	06/19/25	06/20/25	
Ethylbenzene	ND	0.0250	1	06/19/25	06/20/25	
Toluene	ND	0.0250	1	06/19/25	06/20/25	
o-Xylene	ND	0.0250	1	06/19/25	06/20/25	
p,m-Xylene	ND	0.0500	1	06/19/25	06/20/25	
Total Xylenes	ND	0.0250	1	06/19/25	06/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.9 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/25	06/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.0 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525073
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/25	06/20/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	06/19/25	06/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2525080
Chloride	ND	20.0	1	06/19/25	06/20/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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BH06 @ 54-56

E506158-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Benzene	ND	0.0250	1	06/19/25	06/20/25	
Ethylbenzene	ND	0.0250	1	06/19/25	06/20/25	
Toluene	ND	0.0250	1	06/19/25	06/20/25	
o-Xylene	ND	0.0250	1	06/19/25	06/20/25	
p,m-Xylene	ND	0.0500	1	06/19/25	06/20/25	
Total Xylenes	ND	0.0250	1	06/19/25	06/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.8 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/25	06/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.6 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525073
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/25	06/20/25	
<i>Surrogate: n-Nonane</i>						
		119 %	61-141	06/19/25	06/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2525080
Chloride	ND	20.0	1	06/19/25	06/20/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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BH07 @ 44-46

E506158-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Benzene	ND	0.0250	1	06/19/25	06/20/25	
Ethylbenzene	ND	0.0250	1	06/19/25	06/20/25	
Toluene	ND	0.0250	1	06/19/25	06/20/25	
o-Xylene	ND	0.0250	1	06/19/25	06/20/25	
p,m-Xylene	ND	0.0500	1	06/19/25	06/20/25	
Total Xylenes	ND	0.0250	1	06/19/25	06/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.7 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/25	06/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2525073
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/25	06/20/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	06/19/25	06/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2525080
Chloride	ND	20.0	1	06/19/25	06/20/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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BH07 @ 49-51

E506158-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Benzene	ND	0.0250	1	06/19/25	06/20/25	
Ethylbenzene	ND	0.0250	1	06/19/25	06/20/25	
Toluene	ND	0.0250	1	06/19/25	06/20/25	
o-Xylene	ND	0.0250	1	06/19/25	06/20/25	
p,m-Xylene	ND	0.0500	1	06/19/25	06/20/25	
Total Xylenes	ND	0.0250	1	06/19/25	06/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.2 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/25	06/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.3 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525073
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/25	06/20/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	06/19/25	06/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2525080
Chloride	ND	20.0	1	06/19/25	06/20/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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BH07 @ 54-56

E506158-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Benzene	ND	0.0250	1	06/19/25	06/20/25	
Ethylbenzene	ND	0.0250	1	06/19/25	06/20/25	
Toluene	ND	0.0250	1	06/19/25	06/20/25	
o-Xylene	ND	0.0250	1	06/19/25	06/20/25	
p,m-Xylene	ND	0.0500	1	06/19/25	06/20/25	
Total Xylenes	ND	0.0250	1	06/19/25	06/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.7 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525083
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/25	06/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.8 %	70-130	06/19/25	06/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2525073
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/25	06/20/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	06/19/25	06/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2525080
Chloride	ND	20.0	1	06/19/25	06/20/25	



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525083-BLK1)

Prepared: 06/19/25 Analyzed: 06/20/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.55		8.00		107	70-130			

LCS (2525083-BS1)

Prepared: 06/19/25 Analyzed: 06/20/25

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.87	0.0250	5.00		97.3	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	14.9	0.0250	15.0		99.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.42		8.00		105	70-130			

Matrix Spike (2525083-MS1)

Source: E506156-05

Prepared: 06/19/25 Analyzed: 06/20/25

Benzene	5.60	0.0250	5.00	ND	112	70-130			
Ethylbenzene	5.46	0.0250	5.00	ND	109	70-130			
Toluene	5.54	0.0250	5.00	ND	111	70-130			
o-Xylene	5.37	0.0250	5.00	ND	107	70-130			
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130			
Total Xylenes	16.4	0.0250	15.0	ND	109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.58		8.00		107	70-130			

Matrix Spike Dup (2525083-MSD1)

Source: E506156-05

Prepared: 06/19/25 Analyzed: 06/20/25

Benzene	5.46	0.0250	5.00	ND	109	70-130	2.48	27	
Ethylbenzene	5.35	0.0250	5.00	ND	107	70-130	1.99	26	
Toluene	5.42	0.0250	5.00	ND	108	70-130	2.31	20	
o-Xylene	5.25	0.0250	5.00	ND	105	70-130	2.37	25	
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130	2.00	23	
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130	2.12	26	
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525083-BLK1)

Prepared: 06/19/25 Analyzed: 06/20/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

LCS (2525083-BS2)

Prepared: 06/19/25 Analyzed: 06/20/25

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			

Matrix Spike (2525083-MS2)

Source: E506156-05

Prepared: 06/19/25 Analyzed: 06/20/25

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike Dup (2525083-MSD2)

Source: E506156-05

Prepared: 06/19/25 Analyzed: 06/20/25

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130	1.78	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 28-6 #93	Reported: 6/20/2025 2:37:44PM
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525073-BLK1)

Prepared: 06/19/25 Analyzed: 06/19/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	55.9		50.0		112	61-141			

LCS (2525073-BS1)

Prepared: 06/19/25 Analyzed: 06/19/25

Diesel Range Organics (C10-C28)	270	25.0	250		108	66-144			
Surrogate: <i>n</i> -Nonane	53.9		50.0		108	61-141			

Matrix Spike (2525073-MS1)

Source: E506153-04

Prepared: 06/19/25 Analyzed: 06/19/25

Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	56-156			
Surrogate: <i>n</i> -Nonane	56.4		50.0		113	61-141			

Matrix Spike Dup (2525073-MSD1)

Source: E506153-04

Prepared: 06/19/25 Analyzed: 06/19/25

Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	56-156	1.31	20	
Surrogate: <i>n</i> -Nonane	54.8		50.0		110	61-141			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/20/2025 2:37:44PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525080-BLK1)

Prepared: 06/19/25 Analyzed: 06/19/25

Chloride ND 20.0

LCS (2525080-BS1)

Prepared: 06/19/25 Analyzed: 06/19/25

Chloride 254 20.0 250 102 90-110

Matrix Spike (2525080-MS1)

Source: E506158-02

Prepared: 06/19/25 Analyzed: 06/19/25

Chloride 252 20.0 250 ND 101 80-120

Matrix Spike Dup (2525080-MSD1)

Source: E506158-02

Prepared: 06/19/25 Analyzed: 06/19/25

Chloride 252 20.0 250 ND 101 80-120 0.0783 20

QC Summary Report Comment:

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



Definitions and Notes

Hilcorp Energy Co	Project Name:	San Juan 28-6 #93	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	06/20/25 14:37

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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





Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State															
Client: <u>Hilcorp</u>				Company: <u>Hilcorp</u>				Lab WO# <u>E500158</u>				Job Number <u>17051-0002</u>				1D		2D		3D		Std		NM		CO		UT		TX	
Project Name: <u>San Juan 20-6 #93</u>				Address:																											
Project Manager: <u>Stuart Hyde</u>				City, State, Zip:																											
Address:				Phone:																											
City, State, Zip:				Email: <u>kkauffman@hilcorp.com</u>																											
Phone:				Miscellaneous:																											
Email: <u>shyde@onsolum.com</u>																															
Sample Information													Analysis and Method				EPA Program														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1003 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Sample Temp	Remarks						
1024	6-17	soil	104	BH02@39-41		1	X	X	X	X													4.8	Standard							
1042	↓			BH02@54-56		2																	5.1	↓							
928	6-18			BH06@4-6		3																	4.6	2-day							
1009				BH06@44-6		4																	5.2								
1015				BH06@49-51		5																	4.0								
1027				BH06@54-56		6																	5.0								
1302				BH07@44-46		7																	4.6								
1310	↓			BH07@49-51		8																	4.5								
1317	↓			BH07@54-56		9	X	X	X	X													4.3	↓							
Additional Instructions: <u>c: zmyers, wweidert, hpeck@onsolum.com</u>																															
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																															
Sampled by: <u>[Signature]</u>																															
Relinquished by: (Signature)						Date		Time		Received by: (Signature)						Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <u>Y</u> N											
Relinquished by: (Signature)						Date		Time		Received by: (Signature)						Date		Time													
Relinquished by: (Signature)						Date		Time		Received by: (Signature)						Date		Time													
Relinquished by: (Signature)						Date		Time		Received by: (Signature)						Date		Time													
Relinquished by: (Signature)						Date		Time		Received by: (Signature)						Date		Time													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																															
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																															
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																															



Chain of Custody

Client Information					Invoice Information					Lab Use Only					TAT			State																																																																																														
Client: <u>Hilcorp</u>					Company: <u>Hilcorp</u>					Lab WO# <u>E506158</u> Job Number <u>17051-002</u>					1D <input checked="" type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Std <input type="checkbox"/>			NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> TX <input type="checkbox"/>																																																																																														
Project Name: <u>Sam Van 20-6 #93</u>					Address: _____					<table border="1"> <thead> <tr> <th colspan="10">Analysis and Method</th> <th colspan="3">EPA Program</th> </tr> <tr> <th>DRD/CRO by 8015</th> <th>GRO/DRO by 8015</th> <th>BTEX by 8021</th> <th>VOC by 8250</th> <th>Chloride 300.0</th> <th>TCEQ 1005 - TX</th> <th>RCRA 8 Metals</th> <th>BGDOC - NM</th> <th>BGDOC - TX</th> <th>Other</th> <th>SDWA</th> <th>CWA</th> <th>RCRA</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Compliance</td> <td>Y</td> <td>or</td> <td>N</td> </tr> <tr> <td colspan="13">PWSID # _____</td> </tr> <tr> <td colspan="13">Sample Temp _____</td> <td colspan="2">Remarks _____</td> </tr> </tbody> </table>					Analysis and Method										EPA Program			DRD/CRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8250	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	Other	SDWA	CWA	RCRA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																				Compliance	Y	or	N	PWSID # _____													Sample Temp _____													Remarks _____		Project Manager: <u>Stuart Hyde</u>					City, State, Zip: _____					Phone: _____			Email: <u>shyde@onsolum.com</u>			
Analysis and Method															EPA Program																																																																																																	
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928	6-18			BH06@4-6		3											4.6	2-day																																																																																														
1009				BH06@44-6		4											5.2																																																																																															
1015				BH06@49-51		5											4.0																																																																																															
1027				BH06@54-56		6											5.0																																																																																															
1302				BH07@44-46		7											4.6																																																																																															
1310	↓			BH07@49-51		8											4.5																																																																																															
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Sampled by: _____																																																																																																																
Relinquished by: (Signature) _____				Date <u>6-18</u>		Time <u>3:14</u>		Received by: (Signature) <u>Carth Mar</u>				Date <u>6-18-25</u>		Time <u>15:14</u>		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																																																																																																
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NS 6-18-25
 Changed TAT on all samples per S.H. NS 6-18-25

Envirotech Analytical Laboratory

Printed: 6/18/2025 3:49:36PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Hilcorp Energy Co Date Received: 06/18/25 15:14 Work Order ID: E506158
Phone: - Date Logged In: 06/18/25 15:16 Logged In By: Caitlin Mars
Email: shyde@ensolum.com Due Date: 06/20/25 17:00 (2 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Zach Myers

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

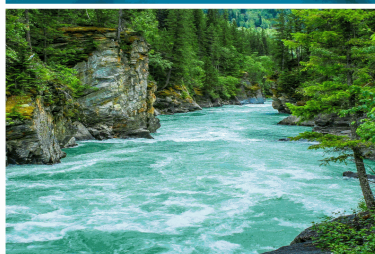
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Stuart Hyde



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: San Juan 28-6 #93

Work Order: E506160

Job Number: 17051-0002

Received: 6/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/25/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 6/25/25

Stuart Hyde
PO Box 61529
Houston, TX 77208

Project Name: San Juan 28-6 #93
Workorder: E506160
Date Received: 6/18/2025 3:14:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/18/2025 3:14:00PM, under the Project Name: San Juan 28-6 #93.

The analytical test results summarized in this report with the Project Name: San Juan 28-6 #93 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH05 @ 14-16	5
BH05 @ 24-26	6
BH05 @ 34-36	7
BH05 @ 44-46	8
BH05 @ 54-56	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 06/25/25 15:22
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 @ 9-11	E506160-01A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.
BH05 @ 14-16	E506160-02A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.
BH05 @ 19-21	E506160-03A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.
BH05 @ 24-26	E506160-04A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.
BH05 @ 29-31	E506160-05A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.
BH05 @ 34-36	E506160-06A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.
BH05 @ 39-41	E506160-07A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.
BH05 @ 44-46	E506160-08A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.
BH05 @ 49-51	E506160-09A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.
BH05 @ 54-56	E506160-10A	Soil	06/16/25	06/18/25	Glass Jar, 4 oz.

Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/25/2025 3:22:06PM
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BH05 @ 14-16

E506160-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2525099	
Benzene	ND	0.0250	1	06/20/25	06/21/25	
Ethylbenzene	1.09	0.0250	1	06/20/25	06/21/25	
Toluene	1.52	0.0250	1	06/20/25	06/21/25	
o-Xylene	4.45	0.0250	1	06/20/25	06/21/25	
p,m-Xylene	17.3	0.0500	1	06/20/25	06/21/25	
Total Xylenes	21.7	0.0250	1	06/20/25	06/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.9 %	70-130	06/20/25	06/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2525099	
Gasoline Range Organics (C6-C10)	352	20.0	1	06/20/25	06/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		190 %	70-130	06/20/25	06/21/25	S5
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2525107	
Diesel Range Organics (C10-C28)	761	25.0	1	06/20/25	06/24/25	T9
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/25	06/24/25	
<i>Surrogate: n-Nonane</i>						
		181 %	61-141	06/20/25	06/24/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2525102	
Chloride	ND	20.0	1	06/20/25	06/20/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/25/2025 3:22:06PM
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BH05 @ 24-26

E506160-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2525099
Benzene	ND	0.125	5	06/20/25	06/24/25	
Ethylbenzene	4.17	0.125	5	06/20/25	06/24/25	
Toluene	2.90	0.125	5	06/20/25	06/24/25	
o-Xylene	13.7	0.125	5	06/20/25	06/24/25	
p,m-Xylene	53.6	0.250	5	06/20/25	06/24/25	
Total Xylenes	67.2	0.125	5	06/20/25	06/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.3 %	70-130	06/20/25	06/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2525099
Gasoline Range Organics (C6-C10)	1120	100	5	06/20/25	06/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		181 %	70-130	06/20/25	06/24/25	S5
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2525107
Diesel Range Organics (C10-C28)	668	25.0	1	06/20/25	06/23/25	T9
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/25	06/23/25	
<i>Surrogate: n-Nonane</i>		292 %	61-141	06/20/25	06/23/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2525102
Chloride	ND	20.0	1	06/20/25	06/20/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/25/2025 3:22:06PM
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BH05 @ 34-36

E506160-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525099
Benzene	ND	0.0250	1	06/20/25	06/24/25	
Ethylbenzene	0.0645	0.0250	1	06/20/25	06/24/25	
Toluene	0.0388	0.0250	1	06/20/25	06/24/25	
o-Xylene	0.203	0.0250	1	06/20/25	06/24/25	
p,m-Xylene	0.435	0.0500	1	06/20/25	06/24/25	
Total Xylenes	0.638	0.0250	1	06/20/25	06/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.1 %	70-130	06/20/25	06/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525099
Gasoline Range Organics (C6-C10)	29.7	20.0	1	06/20/25	06/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.9 %	70-130	06/20/25	06/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2525107
Diesel Range Organics (C10-C28)	35.3	25.0	1	06/20/25	06/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/25	06/24/25	
<i>Surrogate: n-Nonane</i>						
		127 %	61-141	06/20/25	06/24/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2525102
Chloride	ND	20.0	1	06/20/25	06/20/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/25/2025 3:22:06PM
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BH05 @ 44-46

E506160-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525099
Benzene	ND	0.0250	1	06/20/25	06/21/25	
Ethylbenzene	ND	0.0250	1	06/20/25	06/21/25	
Toluene	ND	0.0250	1	06/20/25	06/21/25	
o-Xylene	0.0528	0.0250	1	06/20/25	06/21/25	
p,m-Xylene	0.146	0.0500	1	06/20/25	06/21/25	
Total Xylenes	0.199	0.0250	1	06/20/25	06/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.7 %	70-130	06/20/25	06/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2525099
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/25	06/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.2 %	70-130	06/20/25	06/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2525107
Diesel Range Organics (C10-C28)	25.4	25.0	1	06/20/25	06/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/25	06/24/25	
<i>Surrogate: n-Nonane</i>						
		128 %	61-141	06/20/25	06/24/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2525102
Chloride	ND	20.0	1	06/20/25	06/20/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/25/2025 3:22:06PM
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BH05 @ 54-56

E506160-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2525099
Benzene	ND	0.0250	1	06/20/25	06/21/25	
Ethylbenzene	ND	0.0250	1	06/20/25	06/21/25	
Toluene	0.104	0.0250	1	06/20/25	06/21/25	
o-Xylene	0.0336	0.0250	1	06/20/25	06/21/25	
p,m-Xylene	0.127	0.0500	1	06/20/25	06/21/25	
Total Xylenes	0.161	0.0250	1	06/20/25	06/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %	70-130	06/20/25	06/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2525099
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/25	06/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.1 %	70-130	06/20/25	06/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2525107
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/25	06/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/25	06/24/25	
<i>Surrogate: n-Nonane</i>		126 %	61-141	06/20/25	06/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2525102
Chloride	ND	20.0	1	06/20/25	06/20/25	



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/25/2025 3:22:06PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525099-BLK1)

Prepared: 06/20/25 Analyzed: 06/21/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

LCS (2525099-BS1)

Prepared: 06/20/25 Analyzed: 06/21/25

Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		96.9	70-130			

Matrix Spike (2525099-MS1)

Source: E506160-10

Prepared: 06/20/25 Analyzed: 06/21/25

Benzene	5.16	0.0250	5.00	ND	103	70-130			
Ethylbenzene	5.03	0.0250	5.00	ND	101	70-130			
Toluene	5.24	0.0250	5.00	0.104	103	70-130			
o-Xylene	5.12	0.0250	5.00	0.0336	102	70-130			
p,m-Xylene	10.2	0.0500	10.0	0.127	101	70-130			
Total Xylenes	15.4	0.0250	15.0	0.161	101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		97.9	70-130			

Matrix Spike Dup (2525099-MSD1)

Source: E506160-10

Prepared: 06/20/25 Analyzed: 06/21/25

Benzene	5.04	0.0250	5.00	ND	101	70-130	2.30	27	
Ethylbenzene	4.95	0.0250	5.00	ND	99.0	70-130	1.53	26	
Toluene	5.15	0.0250	5.00	0.104	101	70-130	1.69	20	
o-Xylene	5.03	0.0250	5.00	0.0336	100	70-130	1.74	25	
p,m-Xylene	10.1	0.0500	10.0	0.127	100	70-130	0.992	23	
Total Xylenes	15.2	0.0250	15.0	0.161	100	70-130	1.24	26	
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/25/2025 3:22:06PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525099-BLK1)

Prepared: 06/20/25 Analyzed: 06/21/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.2	70-130			

LCS (2525099-BS2)

Prepared: 06/20/25 Analyzed: 06/21/25

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130			

Matrix Spike (2525099-MS2)

Source: E506160-10

Prepared: 06/20/25 Analyzed: 06/21/25

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2525099-MSD2)

Source: E506160-10

Prepared: 06/20/25 Analyzed: 06/21/25

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.5	70-130	2.93	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 28-6 #93	Reported: 6/25/2025 3:22:06PM
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525107-BLK1)

Prepared: 06/20/25 Analyzed: 06/23/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.6		50.0		117	61-141			

LCS (2525107-BS1)

Prepared: 06/20/25 Analyzed: 06/23/25

Diesel Range Organics (C10-C28)	291	25.0	250		116	66-144			
Surrogate: n-Nonane	59.4		50.0		119	61-141			

Matrix Spike (2525107-MS1)

Source: E506160-04

Prepared: 06/20/25 Analyzed: 06/23/25

Diesel Range Organics (C10-C28)	901	25.0	250	668	93.0	56-156			
Surrogate: n-Nonane	137		50.0		273	61-141			S5

Matrix Spike Dup (2525107-MSD1)

Source: E506160-04

Prepared: 06/20/25 Analyzed: 06/23/25

Diesel Range Organics (C10-C28)	982	25.0	250	668	126	56-156	8.65	20	
Surrogate: n-Nonane	150		50.0		301	61-141			S5



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Stuart Hyde	Reported: 6/25/2025 3:22:06PM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525102-BLK1)

Prepared: 06/20/25 Analyzed: 06/20/25

Chloride ND 20.0

LCS (2525102-BS1)

Prepared: 06/20/25 Analyzed: 06/20/25

Chloride 252 20.0 250 101 90-110

Matrix Spike (2525102-MS1)

Source: E506167-01

Prepared: 06/20/25 Analyzed: 06/20/25

Chloride 876 20.0 250 618 103 80-120

Matrix Spike Dup (2525102-MSD1)

Source: E506167-01

Prepared: 06/20/25 Analyzed: 06/20/25

Chloride 984 20.0 250 618 146 80-120 11.7 20 M2

QC Summary Report Comment:

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



Definitions and Notes

Hilcorp Energy Co	Project Name:	San Juan 28-6 #93	Reported: 06/25/25 15:22
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	

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

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client Information		Invoice Information		Lab Use Only		TAT		State							
Client: <u>Hilcorp</u>		Company: <u>Hilcorp</u>		Lab WO# <u>E5001100</u>		Job Number <u>17051-002</u>		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: <u>San Juan 286 # 93</u>		Address:													
Project Manager: <u>Stuart Hyde</u>		City, State, Zip:													
Address:		Phone:													
City, State, Zip:		Email: <u>kleauffman@hilcorp.com</u>													
Phone:		Miscellaneous:													
Email: <u>shyle@onsdum.com</u>															

Sample Information												EPA Program							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1228	6-16	soil	1x4oz	BH05e 9-11		1	X	X	X	X									
1234				BH05e 14-16		2													
1242				BH05e 19-21		3													Hold
1247				BH05e 24-26		4													
1253				BH05e 29-31		5													Hold
1302				BH05e 34-36		6													
1310				BH05e 39-41		7													Hold
1318				BH05e 44-46		8													
1326				BH05e 49-51		9													Hold
1345				BH05e 54-56		10													Hold

Additional Instructions: cc: Zmyars@onsdum.com, wweichert@onsdum.com, hpedck@onsdum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: <u>[Signature]</u>						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<u>[Signature]</u>	6-18	3:14	<u>[Signature]</u>	6-18-25	15:14						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 6/19/2025 9:06:20AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Hilcorp Energy Co	Date Received: 06/18/25 15:14	Work Order ID: E506160
Phone: -	Date Logged In: 06/19/25 08:59	Logged In By: Caitlin Mars
Email: shyde@ensolum.com	Due Date: 06/25/25 17:00 (5 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Zach Myers

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Comments/Resolution

Client remarks- Samples 1,3,5,7,9 on Hold.

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Wes Weichert



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: San Juan 28-6 #93

Work Order: E506188

Job Number: 17051-0002

Received: 6/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/24/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 6/24/25

Wes Weichert
PO Box 61529
Houston, TX 77208

Project Name: San Juan 28-6 #93
Workorder: E506188
Date Received: 6/20/2025 2:02:00PM

Wes Weichert,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/20/2025 2:02:00PM, under the Project Name: San Juan 28-6 #93.

The analytical test results summarized in this report with the Project Name: San Juan 28-6 #93 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH08 14-16	5
BH08 19-21	6
BH08 24-26	7
BH08 29-31	8
BH08 54-56	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 06/24/25 14:02
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 14-16	E506188-01A	Soil	06/19/25	06/20/25	Glass Jar, 4 oz.
BH08 19-21	E506188-02A	Soil	06/19/25	06/20/25	Glass Jar, 4 oz.
BH08 24-26	E506188-03A	Soil	06/19/25	06/20/25	Glass Jar, 4 oz.
BH08 29-31	E506188-04A	Soil	06/19/25	06/20/25	Glass Jar, 4 oz.
BH08 54-56	E506188-05A	Soil	06/19/25	06/20/25	Glass Jar, 4 oz.



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 6/24/2025 2:02:37PM
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BH08 14-16

E506188-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	ND	0.0250	1	06/20/25	06/23/25	
Ethylbenzene	ND	0.0250	1	06/20/25	06/23/25	
Toluene	ND	0.0250	1	06/20/25	06/23/25	
o-Xylene	ND	0.0250	1	06/20/25	06/23/25	
p,m-Xylene	ND	0.0500	1	06/20/25	06/23/25	
Total Xylenes	ND	0.0250	1	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2526002
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/25	06/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/25	06/23/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	06/23/25	06/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526003
Chloride	ND	20.0	1	06/23/25	06/23/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 6/24/2025 2:02:37PM
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BH08 19-21

E506188-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	ND	0.0250	1	06/20/25	06/23/25	
Ethylbenzene	ND	0.0250	1	06/20/25	06/23/25	
Toluene	ND	0.0250	1	06/20/25	06/23/25	
o-Xylene	ND	0.0250	1	06/20/25	06/23/25	
p,m-Xylene	ND	0.0500	1	06/20/25	06/23/25	
Total Xylenes	ND	0.0250	1	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2526002
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/25	06/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/25	06/23/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	06/23/25	06/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526003
Chloride	ND	20.0	1	06/23/25	06/23/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 6/24/2025 2:02:37PM
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BH08 24-26

E506188-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	ND	0.0250	1	06/20/25	06/23/25	
Ethylbenzene	ND	0.0250	1	06/20/25	06/23/25	
Toluene	ND	0.0250	1	06/20/25	06/23/25	
o-Xylene	ND	0.0250	1	06/20/25	06/23/25	
p,m-Xylene	ND	0.0500	1	06/20/25	06/23/25	
Total Xylenes	ND	0.0250	1	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2526002
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/25	06/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/25	06/23/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	06/23/25	06/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526003
Chloride	ND	20.0	1	06/23/25	06/24/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 6/24/2025 2:02:37PM
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BH08 29-31

E506188-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	ND	0.0250	1	06/20/25	06/23/25	
Ethylbenzene	ND	0.0250	1	06/20/25	06/23/25	
Toluene	ND	0.0250	1	06/20/25	06/23/25	
o-Xylene	ND	0.0250	1	06/20/25	06/23/25	
p,m-Xylene	ND	0.0500	1	06/20/25	06/23/25	
Total Xylenes	ND	0.0250	1	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2526002
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/25	06/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/25	06/23/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	06/23/25	06/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526003
Chloride	ND	20.0	1	06/23/25	06/24/25	



Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 6/24/2025 2:02:37PM
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BH08 54-56

E506188-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	ND	0.0250	1	06/20/25	06/23/25	
Ethylbenzene	ND	0.0250	1	06/20/25	06/23/25	
Toluene	ND	0.0250	1	06/20/25	06/23/25	
o-Xylene	ND	0.0250	1	06/20/25	06/23/25	
p,m-Xylene	ND	0.0500	1	06/20/25	06/23/25	
Total Xylenes	ND	0.0250	1	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.8 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2526002
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/25	06/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/25	06/23/25	
<i>Surrogate: n-Nonane</i>						
		99.3 %	61-141	06/23/25	06/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526003
Chloride	ND	20.0	1	06/23/25	06/24/25	



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 6/24/2025 2:02:37PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525110-BLK1)

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

LCS (2525110-BS1)

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.17	0.0250	5.00		103	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.15	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2525110-MS1)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	27.8	0.125	25.0	2.29	102	70-130			
Ethylbenzene	56.7	0.125	25.0	31.5	101	70-130			
Toluene	57.8	0.125	25.0	31.5	105	70-130			
o-Xylene	41.2	0.125	25.0	16.3	99.6	70-130			
p,m-Xylene	86.2	0.250	50.0	36.0	101	70-130			
Total Xylenes	127	0.125	75.0	52.2	100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	49.4		40.0		123	70-130			

Matrix Spike Dup (2525110-MSD1)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	30.2	0.125	25.0	2.29	112	70-130	8.06	27	
Ethylbenzene	60.9	0.125	25.0	31.5	118	70-130	7.03	26	
Toluene	61.4	0.125	25.0	31.5	120	70-130	6.02	20	
o-Xylene	44.5	0.125	25.0	16.3	113	70-130	7.82	25	
p,m-Xylene	92.8	0.250	50.0	36.0	114	70-130	7.34	23	
Total Xylenes	137	0.125	75.0	52.2	113	70-130	7.50	26	
Surrogate: 4-Bromochlorobenzene-PID	50.3		40.0		126	70-130			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 6/24/2025 2:02:37PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525110-BLK1)

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.29		8.00		104	70-130			

LCS (2525110-BS2)

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.05		8.00		101	70-130			

Matrix Spike (2525110-MS2)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	1070	100	250	730	135	70-130			M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	48.9		40.0		122	70-130			

Matrix Spike Dup (2525110-MSD2)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	1040	100	250	730	124	70-130	2.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	50.1		40.0		125	70-130			



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 28-6 #93	Reported: 6/24/2025 2:02:37PM
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Wes Weichert	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526002-BLK1)

Prepared: 06/23/25 Analyzed: 06/23/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.4		50.0		103	61-141			

LCS (2526002-BS1)

Prepared: 06/23/25 Analyzed: 06/23/25

Diesel Range Organics (C10-C28)	256	25.0	250		103	66-144			
Surrogate: n-Nonane	50.4		50.0		101	61-141			

Matrix Spike (2526002-MS1)

Source: E506179-01

Prepared: 06/23/25 Analyzed: 06/23/25

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156			
Surrogate: n-Nonane	50.6		50.0		101	61-141			

Matrix Spike Dup (2526002-MSD1)

Source: E506179-01

Prepared: 06/23/25 Analyzed: 06/23/25

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156	2.17	20	
Surrogate: n-Nonane	49.2		50.0		98.3	61-141			



QC Summary Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: San Juan 28-6 #93 Project Number: 17051-0002 Project Manager: Wes Weichert	Reported: 6/24/2025 2:02:37PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526003-BLK1)

Prepared: 06/23/25 Analyzed: 06/23/25

Chloride ND 20.0

LCS (2526003-BS1)

Prepared: 06/23/25 Analyzed: 06/23/25

Chloride 256 20.0 250 103 90-110

Matrix Spike (2526003-MS1)

Source: E506179-01

Prepared: 06/23/25 Analyzed: 06/23/25

Chloride 260 20.0 250 ND 104 80-120

Matrix Spike Dup (2526003-MSD1)

Source: E506179-01

Prepared: 06/23/25 Analyzed: 06/23/25

Chloride 259 20.0 250 ND 104 80-120 0.288 20

QC Summary Report Comment:

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



Definitions and Notes

Hilcorp Energy Co	Project Name:	San Juan 28-6 #93	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Wes Weichert	06/24/25 14:02

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information		Invoice Information		Lab Use Only				TAT		State					
Client: <u>Hilcorp Energy Company</u>		Company: _____		Lab WO# <u>1500188</u>		Job Number <u>17051-0002</u>		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: <u>SJ 28-6 #93</u>		Address: _____		City, State, Zip: _____		Phone: _____						<input checked="" type="checkbox"/>			
Project Manager: <u>Kate Kaufman</u>		Email: _____		Miscellaneous: _____											
Address: _____															
City, State, Zip: _____															
Phone: _____															
Email: <u>kkaufman@hilcorp.com</u>															

Sample Information					Analysis and Method										EPA Program			Remarks
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
9:30	6/19/25	S	1	BH08 14-16		1	X	X	X		X							4.9
9:35	↓	↓	↓	BH08 19-21		2	↓	↓	↓		↓							4.8
9:40	↓	↓	↓	BH08 24-26		3	↓	↓	↓		↓							5.0
9:45	↓	↓	↓	BH08 29-31		4	↓	↓	↓		↓							5.1
10:00	↓	↓	↓	BH08 54-56		5	↓	↓	↓		↓							5.3

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: _____						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature) <u>Win W...</u>	Date <u>6-20-25</u>	Time <u>14:02</u>	Received by: (Signature) <u>Cresth Mar</u>	Date <u>6-20-25</u>	Time <u>14:02</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Released to Imaging: 12/10/2025 10:44:02 AM

Received by OCD: 8/22/2025 1:08:55 PM

Page 150 of 317

Envirotech Analytical Laboratory

Printed: 6/20/2025 2:31:27PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Hilcorp Energy Co Date Received: 06/20/25 14:02 Work Order ID: E506188
Phone: - Date Logged In: 06/20/25 14:03 Logged In By: Caitlin Mars
Email: wwweichert@ensolum.com Due Date: 06/23/25 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes
Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Carrier: Wes Weichert

Comments/Resolution

Sampled by not provided on COC.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

[Empty box for client instruction]

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman
 Hilcorp Energy
 PO BOX 4700
 Farmington, New Mexico 87499
 Generated 3/18/2025 11:13:48 AM

JOB DESCRIPTION

San Juan 28-6 Unit 93

JOB NUMBER

885-21221-1

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
3/18/2025 11:13:48 AM

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

Client: Hilcorp Energy
Project/Site: San Juan 28-6 Unit 93

Laboratory Job ID: 885-21221-1



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	20
QC Association Summary	25
Lab Chronicle	29
Certification Summary	34
Chain of Custody	35
Receipt Checklists	37

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

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
Project: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Job ID: 885-21221-1

Eurofins Albuquerque

Job Narrative 885-21221-1

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 3/11/2025 7:15 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.

Gasoline Range Organics

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: HA01@4 (885-21221-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: HA03@13 (885-21221-4). Elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: HA01@0-1 (885-21221-1). 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.

HPLC/IC

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

Eurofins Albuquerque



Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA01@0-1

Lab Sample ID: 885-21221-1

Date Collected: 03/10/25 11:15

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	7000		480	mg/Kg		03/11/25 12:52	03/14/25 15:29	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	295	S1+	35 - 166			03/11/25 12:52	03/14/25 15:29	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.2		0.24	mg/Kg		03/11/25 12:52	03/13/25 17:40	10
Ethylbenzene	42		0.48	mg/Kg		03/11/25 12:52	03/13/25 17:40	10
Toluene	120		4.8	mg/Kg		03/11/25 12:52	03/14/25 15:29	100
Xylenes, Total	470		9.5	mg/Kg		03/11/25 12:52	03/14/25 15:29	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	197	S1+	48 - 145			03/11/25 12:52	03/13/25 17:40	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1700		20	mg/Kg		03/12/25 08:10	03/17/25 13:52	2
Motor Oil Range Organics [C28-C40]	ND	D	98	mg/Kg		03/12/25 08:10	03/17/25 13:52	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			03/12/25 08:10	03/17/25 13:52	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 15:24	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA01@4

Lab Sample ID: 885-21221-2

Date Collected: 03/10/25 11:23

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	140		4.7	mg/Kg		03/11/25 12:52	03/13/25 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	710	S1+	35 - 166			03/11/25 12:52	03/13/25 18:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/11/25 12:52	03/13/25 18:02	1
Ethylbenzene	0.85		0.047	mg/Kg		03/11/25 12:52	03/13/25 18:02	1
Toluene	1.1		0.047	mg/Kg		03/11/25 12:52	03/13/25 18:02	1
Xylenes, Total	8.8		0.094	mg/Kg		03/11/25 12:52	03/13/25 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		48 - 145			03/11/25 12:52	03/13/25 18:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	97		9.8	mg/Kg		03/12/25 08:10	03/14/25 23:30	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/12/25 08:10	03/14/25 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			03/12/25 08:10	03/14/25 23:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 15:37	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA03@0-1

Lab Sample ID: 885-21221-3

Date Collected: 03/10/25 11:40

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/11/25 12:52	03/13/25 18:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166			03/11/25 12:52	03/13/25 18:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/11/25 12:52	03/13/25 18:23	1
Ethylbenzene	ND		0.048	mg/Kg		03/11/25 12:52	03/13/25 18:23	1
Toluene	ND		0.048	mg/Kg		03/11/25 12:52	03/13/25 18:23	1
Xylenes, Total	ND		0.097	mg/Kg		03/11/25 12:52	03/13/25 18:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			03/11/25 12:52	03/13/25 18:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		03/12/25 08:10	03/14/25 23:40	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		03/12/25 08:10	03/14/25 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			03/12/25 08:10	03/14/25 23:40	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 15:51	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA03@13

Lab Sample ID: 885-21221-4

Date Collected: 03/10/25 12:09

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1500		460	mg/Kg		03/11/25 12:52	03/14/25 15:51	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	201	S1+	35 - 166			03/11/25 12:52	03/14/25 15:51	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.23	mg/Kg		03/11/25 12:52	03/13/25 18:45	10
Ethylbenzene	5.9		0.46	mg/Kg		03/11/25 12:52	03/13/25 18:45	10
Toluene	9.5		0.46	mg/Kg		03/11/25 12:52	03/13/25 18:45	10
Xylenes, Total	100		0.92	mg/Kg		03/11/25 12:52	03/13/25 18:45	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		48 - 145			03/11/25 12:52	03/13/25 18:45	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2500		93	mg/Kg		03/12/25 08:10	03/15/25 16:37	10
Motor Oil Range Organics [C28-C40]	ND	D	470	mg/Kg		03/12/25 08:10	03/15/25 16:37	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			03/12/25 08:10	03/15/25 16:37	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 16:05	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA03@17

Lab Sample ID: 885-21221-5

Date Collected: 03/10/25 12:43

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	680		92	mg/Kg		03/11/25 12:52	03/13/25 19:07	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160		35 - 166			03/11/25 12:52	03/13/25 19:07	20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.46	mg/Kg		03/11/25 12:52	03/13/25 19:07	20
Ethylbenzene	2.5		0.92	mg/Kg		03/11/25 12:52	03/13/25 19:07	20
Toluene	3.3		0.92	mg/Kg		03/11/25 12:52	03/13/25 19:07	20
Xylenes, Total	32		1.8	mg/Kg		03/11/25 12:52	03/13/25 19:07	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	48 - 145			03/11/25 12:52	03/13/25 19:07	20
4-Bromofluorobenzene (Surr)	99		48 - 145			03/11/25 12:52	03/13/25 19:07	20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	430		9.6	mg/Kg		03/12/25 08:10	03/15/25 00:02	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/12/25 08:10	03/15/25 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			03/12/25 08:10	03/15/25 00:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 16:18	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA04@5

Lab Sample ID: 885-21221-6

Date Collected: 03/10/25 13:05

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/11/25 12:52	03/13/25 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			03/11/25 12:52	03/13/25 19:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/11/25 12:52	03/13/25 19:29	1
Ethylbenzene	ND		0.049	mg/Kg		03/11/25 12:52	03/13/25 19:29	1
Toluene	ND		0.049	mg/Kg		03/11/25 12:52	03/13/25 19:29	1
Xylenes, Total	ND		0.098	mg/Kg		03/11/25 12:52	03/13/25 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145			03/11/25 12:52	03/13/25 19:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		03/12/25 08:10	03/15/25 00:12	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		03/12/25 08:10	03/15/25 00:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			03/12/25 08:10	03/15/25 00:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		03/12/25 07:45	03/13/25 16:59	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA04@13

Lab Sample ID: 885-21221-7

Date Collected: 03/10/25 13:21

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/11/25 12:52	03/13/25 20:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		35 - 166			03/11/25 12:52	03/13/25 20:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		03/11/25 12:52	03/13/25 20:12	1
Ethylbenzene	ND		0.047	mg/Kg		03/11/25 12:52	03/13/25 20:12	1
Toluene	ND		0.047	mg/Kg		03/11/25 12:52	03/13/25 20:12	1
Xylenes, Total	ND		0.094	mg/Kg		03/11/25 12:52	03/13/25 20:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		48 - 145			03/11/25 12:52	03/13/25 20:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		03/12/25 08:10	03/15/25 00:23	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		03/12/25 08:10	03/15/25 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			03/12/25 08:10	03/15/25 00:23	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 17:13	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA04@17

Lab Sample ID: 885-21221-8

Date Collected: 03/10/25 13:29

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		03/11/25 12:52	03/13/25 20:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166			03/11/25 12:52	03/13/25 20:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		03/11/25 12:52	03/13/25 20:34	1
Ethylbenzene	ND		0.046	mg/Kg		03/11/25 12:52	03/13/25 20:34	1
Toluene	ND		0.046	mg/Kg		03/11/25 12:52	03/13/25 20:34	1
Xylenes, Total	ND		0.093	mg/Kg		03/11/25 12:52	03/13/25 20:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		48 - 145			03/11/25 12:52	03/13/25 20:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		03/12/25 08:10	03/15/25 16:58	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/12/25 08:10	03/15/25 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			03/12/25 08:10	03/15/25 16:58	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 17:27	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA05@0-1

Lab Sample ID: 885-21221-9

Date Collected: 03/10/25 14:16

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		03/11/25 12:52	03/13/25 20:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166			03/11/25 12:52	03/13/25 20:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		03/11/25 12:52	03/13/25 20:56	1
Ethylbenzene	ND		0.046	mg/Kg		03/11/25 12:52	03/13/25 20:56	1
Toluene	ND		0.046	mg/Kg		03/11/25 12:52	03/13/25 20:56	1
Xylenes, Total	ND		0.092	mg/Kg		03/11/25 12:52	03/13/25 20:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		48 - 145			03/11/25 12:52	03/13/25 20:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		03/12/25 08:10	03/15/25 17:08	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		03/12/25 08:10	03/15/25 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			03/12/25 08:10	03/15/25 17:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 17:40	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA05@9

Lab Sample ID: 885-21221-10

Date Collected: 03/10/25 14:42

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/11/25 12:52	03/13/25 21:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			03/11/25 12:52	03/13/25 21:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/11/25 12:52	03/13/25 21:17	1
Ethylbenzene	ND		0.049	mg/Kg		03/11/25 12:52	03/13/25 21:17	1
Toluene	ND		0.049	mg/Kg		03/11/25 12:52	03/13/25 21:17	1
Xylenes, Total	ND		0.097	mg/Kg		03/11/25 12:52	03/13/25 21:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		48 - 145			03/11/25 12:52	03/13/25 21:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		03/12/25 08:10	03/15/25 17:19	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/12/25 08:10	03/15/25 17:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			03/12/25 08:10	03/15/25 17:19	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 17:54	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA05@17

Lab Sample ID: 885-21221-11

Date Collected: 03/10/25 15:26

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/11/25 12:52	03/13/25 21:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			03/11/25 12:52	03/13/25 21:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/11/25 12:52	03/13/25 21:39	1
Ethylbenzene	ND		0.048	mg/Kg		03/11/25 12:52	03/13/25 21:39	1
Toluene	ND		0.048	mg/Kg		03/11/25 12:52	03/13/25 21:39	1
Xylenes, Total	ND		0.097	mg/Kg		03/11/25 12:52	03/13/25 21:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		48 - 145			03/11/25 12:52	03/13/25 21:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		03/12/25 08:10	03/15/25 17:29	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/12/25 08:10	03/15/25 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			03/12/25 08:10	03/15/25 17:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 18:07	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA06@3

Lab Sample ID: 885-21221-12

Date Collected: 03/10/25 14:47

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/11/25 12:52	03/13/25 22:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			03/11/25 12:52	03/13/25 22:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/11/25 12:52	03/13/25 22:01	1
Ethylbenzene	ND		0.049	mg/Kg		03/11/25 12:52	03/13/25 22:01	1
Toluene	ND		0.049	mg/Kg		03/11/25 12:52	03/13/25 22:01	1
Xylenes, Total	ND		0.097	mg/Kg		03/11/25 12:52	03/13/25 22:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145			03/11/25 12:52	03/13/25 22:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		03/12/25 08:10	03/15/25 17:40	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		03/12/25 08:10	03/15/25 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			03/12/25 08:10	03/15/25 17:40	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 18:21	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA06@7

Lab Sample ID: 885-21221-13

Date Collected: 03/10/25 14:54

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/11/25 12:52	03/13/25 22:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			03/11/25 12:52	03/13/25 22:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/11/25 12:52	03/13/25 22:23	1
Ethylbenzene	ND		0.050	mg/Kg		03/11/25 12:52	03/13/25 22:23	1
Toluene	ND		0.050	mg/Kg		03/11/25 12:52	03/13/25 22:23	1
Xylenes, Total	ND		0.099	mg/Kg		03/11/25 12:52	03/13/25 22:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145			03/11/25 12:52	03/13/25 22:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		03/12/25 08:10	03/15/25 17:50	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/12/25 08:10	03/15/25 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			03/12/25 08:10	03/15/25 17:50	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/12/25 07:45	03/13/25 18:35	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA06@17

Lab Sample ID: 885-21221-14

Date Collected: 03/10/25 15:42

Matrix: Solid

Date Received: 03/11/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/12/25 17:36	03/14/25 15:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		35 - 166			03/12/25 17:36	03/14/25 15:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/12/25 17:36	03/13/25 23:50	1
Ethylbenzene	ND		0.049	mg/Kg		03/12/25 17:36	03/13/25 23:50	1
Toluene	ND		0.049	mg/Kg		03/12/25 17:36	03/13/25 23:50	1
Xylenes, Total	ND		0.099	mg/Kg		03/12/25 17:36	03/13/25 23:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			03/12/25 17:36	03/13/25 23:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		03/13/25 08:24	03/13/25 20:22	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/13/25 08:24	03/13/25 20:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			03/13/25 08:24	03/13/25 20:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		03/12/25 07:45	03/13/25 18:48	20

QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

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

Lab Sample ID: MB 885-22243/1-A
 Matrix: Solid
 Analysis Batch: 22400

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 22243

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/11/25 12:52	03/13/25 15:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166			03/11/25 12:52	03/13/25 15:08	1

Lab Sample ID: LCS 885-22243/2-A
 Matrix: Solid
 Analysis Batch: 22400

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 22243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics [C6 - C10]	25.0	26.7		mg/Kg		107	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	207		35 - 166					

Lab Sample ID: MB 885-22368/1-A
 Matrix: Solid
 Analysis Batch: 22569

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 22368

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/12/25 17:36	03/14/25 14:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		35 - 166			03/12/25 17:36	03/14/25 14:46	1

Lab Sample ID: LCS 885-22368/2-A
 Matrix: Solid
 Analysis Batch: 22569

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 22368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics [C6 - C10]	25.0	27.0		mg/Kg		108	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	195		35 - 166					

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-22243/1-A
 Matrix: Solid
 Analysis Batch: 22401

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 22243

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/11/25 12:52	03/13/25 15:08	1
Ethylbenzene	ND		0.050	mg/Kg		03/11/25 12:52	03/13/25 15:08	1
Toluene	ND		0.050	mg/Kg		03/11/25 12:52	03/13/25 15:08	1
Xylenes, Total	ND		0.10	mg/Kg		03/11/25 12:52	03/13/25 15:08	1

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

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

Lab Sample ID: MB 885-22243/1-A
 Matrix: Solid
 Analysis Batch: 22401

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 22243

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145	03/11/25 12:52	03/13/25 15:08	1

Lab Sample ID: LCS 885-22243/3-A
 Matrix: Solid
 Analysis Batch: 22401

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 22243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	1.00	0.904		mg/Kg		90	70 - 130	
Ethylbenzene	1.00	0.921		mg/Kg		92	70 - 130	
m&p-Xylene	2.00	1.83		mg/Kg		91	70 - 130	
o-Xylene	1.00	0.910		mg/Kg		91	70 - 130	
Toluene	1.00	0.902		mg/Kg		90	70 - 130	
Xylenes, Total	3.00	2.74		mg/Kg		91	70 - 130	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		48 - 145

Lab Sample ID: MB 885-22368/1-A
 Matrix: Solid
 Analysis Batch: 22486

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 22368

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/12/25 17:36	03/13/25 23:28	1
Ethylbenzene	ND		0.050	mg/Kg		03/12/25 17:36	03/13/25 23:28	1
Toluene	ND		0.050	mg/Kg		03/12/25 17:36	03/13/25 23:28	1
Xylenes, Total	ND		0.10	mg/Kg		03/12/25 17:36	03/13/25 23:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145	03/12/25 17:36	03/13/25 23:28	1

Lab Sample ID: LCS 885-22368/3-A
 Matrix: Solid
 Analysis Batch: 22486

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 22368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	1.00	0.909		mg/Kg		91	70 - 130	
Ethylbenzene	1.00	0.905		mg/Kg		91	70 - 130	
m&p-Xylene	2.00	1.80		mg/Kg		90	70 - 130	
o-Xylene	1.00	0.916		mg/Kg		92	70 - 130	
Toluene	1.00	0.901		mg/Kg		90	70 - 130	
Xylenes, Total	3.00	2.72		mg/Kg		91	70 - 130	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		48 - 145

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

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

Lab Sample ID: 885-21221-14 MS
 Matrix: Solid
 Analysis Batch: 22486

Client Sample ID: HA06@17
 Prep Type: Total/NA
 Prep Batch: 22368

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier						
Benzene	ND		0.984	1.01		mg/Kg		102		70 - 130	
Ethylbenzene	ND		0.984	1.04		mg/Kg		105		70 - 130	
m&p-Xylene	ND		1.97	2.06		mg/Kg		104		70 - 130	
o-Xylene	ND		0.984	1.04		mg/Kg		105		70 - 130	
Toluene	ND		0.984	1.02		mg/Kg		103		70 - 130	
Xylenes, Total	ND		2.95	3.09		mg/Kg		105		70 - 130	
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	89		48 - 145								

Lab Sample ID: 885-21221-14 MSD
 Matrix: Solid
 Analysis Batch: 22486

Client Sample ID: HA06@17
 Prep Type: Total/NA
 Prep Batch: 22368

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Benzene	ND		0.990	0.999		mg/Kg		101		70 - 130	1	20
Ethylbenzene	ND		0.990	1.03		mg/Kg		104		70 - 130	1	20
m&p-Xylene	ND		1.98	2.04		mg/Kg		103		70 - 130	1	20
o-Xylene	ND		0.990	1.03		mg/Kg		104		70 - 130	1	20
Toluene	ND		0.990	1.01		mg/Kg		102		70 - 130	0	20
Xylenes, Total	ND		2.97	3.07		mg/Kg		103		70 - 130	1	20
		MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	90		48 - 145									

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

Lab Sample ID: MB 885-22286/1-A
 Matrix: Solid
 Analysis Batch: 22482

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 22286

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		03/12/25 08:10	03/14/25 15:10	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		03/12/25 08:10	03/14/25 15:10	1
		MB	MB					
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
Di-n-octyl phthalate (Surr)	103		62 - 134	03/12/25 08:10	03/14/25 15:10	1		

Lab Sample ID: LCS 885-22286/2-A
 Matrix: Solid
 Analysis Batch: 22482

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 22286

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Diesel Range Organics [C10-C28]	50.0	49.4		mg/Kg		99		60 - 135
		LCS	LCS					
Surrogate	%Recovery	Qualifier	Limits					
Di-n-octyl phthalate (Surr)	81		62 - 134					

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

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

Lab Sample ID: MB 885-22386/1-A
 Matrix: Solid
 Analysis Batch: 22399

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 22386

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		03/13/25 08:24	03/13/25 20:01	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		03/13/25 08:24	03/13/25 20:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			03/13/25 08:24	03/13/25 20:01	1

Lab Sample ID: LCS 885-22386/2-A
 Matrix: Solid
 Analysis Batch: 22399

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 22386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	53.9		mg/Kg		108	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	86		62 - 134				

Lab Sample ID: 885-21221-14 MS
 Matrix: Solid
 Analysis Batch: 22399

Client Sample ID: HA06@17
 Prep Type: Total/NA
 Prep Batch: 22386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		49.2	54.0		mg/Kg		110	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	89		62 - 134						

Lab Sample ID: 885-21221-14 MSD
 Matrix: Solid
 Analysis Batch: 22399

Client Sample ID: HA06@17
 Prep Type: Total/NA
 Prep Batch: 22386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.4	54.3		mg/Kg		110	44 - 136	1	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	89		62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-22284/1-A
 Matrix: Solid
 Analysis Batch: 22380

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 22284

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		03/12/25 07:45	03/13/25 09:24	1

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-22284/3-A
 Matrix: Solid
 Analysis Batch: 22380

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 22284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	29.1		mg/Kg		97	90 - 110

Lab Sample ID: LLCS 885-22284/2-A
 Matrix: Solid
 Analysis Batch: 22380

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 22284

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	3.14		mg/Kg		105	50 - 150

QC Association Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-1	HA01@0-1	Total/NA	Solid	5030C	
885-21221-2	HA01@4	Total/NA	Solid	5030C	
885-21221-3	HA03@0-1	Total/NA	Solid	5030C	
885-21221-4	HA03@13	Total/NA	Solid	5030C	
885-21221-5	HA03@17	Total/NA	Solid	5030C	
885-21221-6	HA04@5	Total/NA	Solid	5030C	
885-21221-7	HA04@13	Total/NA	Solid	5030C	
885-21221-8	HA04@17	Total/NA	Solid	5030C	
885-21221-9	HA05@0-1	Total/NA	Solid	5030C	
885-21221-10	HA05@9	Total/NA	Solid	5030C	
885-21221-11	HA05@17	Total/NA	Solid	5030C	
885-21221-12	HA06@3	Total/NA	Solid	5030C	
885-21221-13	HA06@7	Total/NA	Solid	5030C	
MB 885-22243/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-22243/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-22243/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 22368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-14	HA06@17	Total/NA	Solid	5030C	
MB 885-22368/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-22368/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-22368/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-21221-14 MS	HA06@17	Total/NA	Solid	5030C	
885-21221-14 MSD	HA06@17	Total/NA	Solid	5030C	

Analysis Batch: 22400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-2	HA01@4	Total/NA	Solid	8015M/D	22243
885-21221-3	HA03@0-1	Total/NA	Solid	8015M/D	22243
885-21221-5	HA03@17	Total/NA	Solid	8015M/D	22243
885-21221-6	HA04@5	Total/NA	Solid	8015M/D	22243
885-21221-7	HA04@13	Total/NA	Solid	8015M/D	22243
885-21221-8	HA04@17	Total/NA	Solid	8015M/D	22243
885-21221-9	HA05@0-1	Total/NA	Solid	8015M/D	22243
885-21221-10	HA05@9	Total/NA	Solid	8015M/D	22243
885-21221-11	HA05@17	Total/NA	Solid	8015M/D	22243
885-21221-12	HA06@3	Total/NA	Solid	8015M/D	22243
885-21221-13	HA06@7	Total/NA	Solid	8015M/D	22243
MB 885-22243/1-A	Method Blank	Total/NA	Solid	8015M/D	22243
LCS 885-22243/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	22243

Analysis Batch: 22401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-1	HA01@0-1	Total/NA	Solid	8021B	22243
885-21221-2	HA01@4	Total/NA	Solid	8021B	22243
885-21221-3	HA03@0-1	Total/NA	Solid	8021B	22243
885-21221-4	HA03@13	Total/NA	Solid	8021B	22243
885-21221-5	HA03@17	Total/NA	Solid	8021B	22243
885-21221-6	HA04@5	Total/NA	Solid	8021B	22243
885-21221-7	HA04@13	Total/NA	Solid	8021B	22243

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QC Association Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

GC VOA (Continued)

Analysis Batch: 22401 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-8	HA04@17	Total/NA	Solid	8021B	22243
885-21221-9	HA05@0-1	Total/NA	Solid	8021B	22243
885-21221-10	HA05@9	Total/NA	Solid	8021B	22243
885-21221-11	HA05@17	Total/NA	Solid	8021B	22243
885-21221-12	HA06@3	Total/NA	Solid	8021B	22243
885-21221-13	HA06@7	Total/NA	Solid	8021B	22243
MB 885-22243/1-A	Method Blank	Total/NA	Solid	8021B	22243
LCS 885-22243/3-A	Lab Control Sample	Total/NA	Solid	8021B	22243

Analysis Batch: 22486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-14	HA06@17	Total/NA	Solid	8021B	22368
MB 885-22368/1-A	Method Blank	Total/NA	Solid	8021B	22368
LCS 885-22368/3-A	Lab Control Sample	Total/NA	Solid	8021B	22368
885-21221-14 MS	HA06@17	Total/NA	Solid	8021B	22368
885-21221-14 MSD	HA06@17	Total/NA	Solid	8021B	22368

Analysis Batch: 22569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-1	HA01@0-1	Total/NA	Solid	8015M/D	22243
885-21221-4	HA03@13	Total/NA	Solid	8015M/D	22243
885-21221-14	HA06@17	Total/NA	Solid	8015M/D	22368
MB 885-22368/1-A	Method Blank	Total/NA	Solid	8015M/D	22368
LCS 885-22368/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	22368

Analysis Batch: 22570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-1	HA01@0-1	Total/NA	Solid	8021B	22243

GC Semi VOA

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-1	HA01@0-1	Total/NA	Solid	SHAKE	
885-21221-2	HA01@4	Total/NA	Solid	SHAKE	
885-21221-3	HA03@0-1	Total/NA	Solid	SHAKE	
885-21221-4	HA03@13	Total/NA	Solid	SHAKE	
885-21221-5	HA03@17	Total/NA	Solid	SHAKE	
885-21221-6	HA04@5	Total/NA	Solid	SHAKE	
885-21221-7	HA04@13	Total/NA	Solid	SHAKE	
885-21221-8	HA04@17	Total/NA	Solid	SHAKE	
885-21221-9	HA05@0-1	Total/NA	Solid	SHAKE	
885-21221-10	HA05@9	Total/NA	Solid	SHAKE	
885-21221-11	HA05@17	Total/NA	Solid	SHAKE	
885-21221-12	HA06@3	Total/NA	Solid	SHAKE	
885-21221-13	HA06@7	Total/NA	Solid	SHAKE	
MB 885-22286/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-22286/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

GC Semi VOA

Prep Batch: 22386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-14	HA06@17	Total/NA	Solid	SHAKE	
MB 885-22386/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-22386/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-21221-14 MS	HA06@17	Total/NA	Solid	SHAKE	
885-21221-14 MSD	HA06@17	Total/NA	Solid	SHAKE	

Analysis Batch: 22399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-14	HA06@17	Total/NA	Solid	8015M/D	22386
MB 885-22386/1-A	Method Blank	Total/NA	Solid	8015M/D	22386
LCS 885-22386/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	22386
885-21221-14 MS	HA06@17	Total/NA	Solid	8015M/D	22386
885-21221-14 MSD	HA06@17	Total/NA	Solid	8015M/D	22386

Analysis Batch: 22482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-2	HA01@4	Total/NA	Solid	8015M/D	22286
885-21221-3	HA03@0-1	Total/NA	Solid	8015M/D	22286
885-21221-5	HA03@17	Total/NA	Solid	8015M/D	22286
885-21221-6	HA04@5	Total/NA	Solid	8015M/D	22286
885-21221-7	HA04@13	Total/NA	Solid	8015M/D	22286
MB 885-22286/1-A	Method Blank	Total/NA	Solid	8015M/D	22286
LCS 885-22286/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	22286

Analysis Batch: 22557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-4	HA03@13	Total/NA	Solid	8015M/D	22286
885-21221-8	HA04@17	Total/NA	Solid	8015M/D	22286
885-21221-9	HA05@0-1	Total/NA	Solid	8015M/D	22286
885-21221-10	HA05@9	Total/NA	Solid	8015M/D	22286
885-21221-11	HA05@17	Total/NA	Solid	8015M/D	22286
885-21221-12	HA06@3	Total/NA	Solid	8015M/D	22286
885-21221-13	HA06@7	Total/NA	Solid	8015M/D	22286

Analysis Batch: 22562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-1	HA01@0-1	Total/NA	Solid	8015M/D	22286

HPLC/IC

Prep Batch: 22284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-1	HA01@0-1	Total/NA	Solid	300_Prep	
885-21221-2	HA01@4	Total/NA	Solid	300_Prep	
885-21221-3	HA03@0-1	Total/NA	Solid	300_Prep	
885-21221-4	HA03@13	Total/NA	Solid	300_Prep	
885-21221-5	HA03@17	Total/NA	Solid	300_Prep	
885-21221-6	HA04@5	Total/NA	Solid	300_Prep	
885-21221-7	HA04@13	Total/NA	Solid	300_Prep	
885-21221-8	HA04@17	Total/NA	Solid	300_Prep	
885-21221-9	HA05@0-1	Total/NA	Solid	300_Prep	

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QC Association Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

HPLC/IC (Continued)

Prep Batch: 22284 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-10	HA05@9	Total/NA	Solid	300_Prep	
885-21221-11	HA05@17	Total/NA	Solid	300_Prep	
885-21221-12	HA06@3	Total/NA	Solid	300_Prep	
885-21221-13	HA06@7	Total/NA	Solid	300_Prep	
885-21221-14	HA06@17	Total/NA	Solid	300_Prep	
MB 885-22284/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-22284/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LLCS 885-22284/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 22380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21221-1	HA01@0-1	Total/NA	Solid	300.0	22284
885-21221-2	HA01@4	Total/NA	Solid	300.0	22284
885-21221-3	HA03@0-1	Total/NA	Solid	300.0	22284
885-21221-4	HA03@13	Total/NA	Solid	300.0	22284
885-21221-5	HA03@17	Total/NA	Solid	300.0	22284
885-21221-6	HA04@5	Total/NA	Solid	300.0	22284
885-21221-7	HA04@13	Total/NA	Solid	300.0	22284
885-21221-8	HA04@17	Total/NA	Solid	300.0	22284
885-21221-9	HA05@0-1	Total/NA	Solid	300.0	22284
885-21221-10	HA05@9	Total/NA	Solid	300.0	22284
885-21221-11	HA05@17	Total/NA	Solid	300.0	22284
885-21221-12	HA06@3	Total/NA	Solid	300.0	22284
885-21221-13	HA06@7	Total/NA	Solid	300.0	22284
885-21221-14	HA06@17	Total/NA	Solid	300.0	22284
MB 885-22284/1-A	Method Blank	Total/NA	Solid	300.0	22284
LCS 885-22284/3-A	Lab Control Sample	Total/NA	Solid	300.0	22284
LLCS 885-22284/2-A	Lab Control Sample	Total/NA	Solid	300.0	22284

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA01@0-1

Lab Sample ID: 885-21221-1

Date Collected: 03/10/25 11:15

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		100	22569	AT	EET ALB	03/14/25 15:29
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		10	22401	AT	EET ALB	03/13/25 17:40
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		100	22570	AT	EET ALB	03/14/25 15:29
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		2	22562	MI	EET ALB	03/17/25 13:52
Total/NA	Prep	300_Pre			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 15:24

Client Sample ID: HA01@4

Lab Sample ID: 885-21221-2

Date Collected: 03/10/25 11:23

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 18:02
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 18:02
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22482	EM	EET ALB	03/14/25 23:30
Total/NA	Prep	300_Pre			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 15:37

Client Sample ID: HA03@0-1

Lab Sample ID: 885-21221-3

Date Collected: 03/10/25 11:40

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 18:23
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 18:23
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22482	EM	EET ALB	03/14/25 23:40
Total/NA	Prep	300_Pre			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 15:51

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA03@13

Lab Sample ID: 885-21221-4

Date Collected: 03/10/25 12:09

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		100	22569	AT	EET ALB	03/14/25 15:51
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		10	22401	AT	EET ALB	03/13/25 18:45
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		10	22557	MI	EET ALB	03/15/25 16:37
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 16:05

Client Sample ID: HA03@17

Lab Sample ID: 885-21221-5

Date Collected: 03/10/25 12:43

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		20	22400	AT	EET ALB	03/13/25 19:07
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		20	22401	AT	EET ALB	03/13/25 19:07
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22482	EM	EET ALB	03/15/25 00:02
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 16:18

Client Sample ID: HA04@5

Lab Sample ID: 885-21221-6

Date Collected: 03/10/25 13:05

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 19:29
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 19:29
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22482	EM	EET ALB	03/15/25 00:12
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 16:59

Client Sample ID: HA04@13

Lab Sample ID: 885-21221-7

Date Collected: 03/10/25 13:21

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 20:12

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Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA04@13

Lab Sample ID: 885-21221-7

Date Collected: 03/10/25 13:21

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 20:12
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22482	EM	EET ALB	03/15/25 00:23
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 17:13

Client Sample ID: HA04@17

Lab Sample ID: 885-21221-8

Date Collected: 03/10/25 13:29

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 20:34
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 20:34
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22557	MI	EET ALB	03/15/25 16:58
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 17:27

Client Sample ID: HA05@0-1

Lab Sample ID: 885-21221-9

Date Collected: 03/10/25 14:16

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 20:56
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 20:56
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22557	MI	EET ALB	03/15/25 17:08
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 17:40

Client Sample ID: HA05@9

Lab Sample ID: 885-21221-10

Date Collected: 03/10/25 14:42

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 21:17
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 21:17

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Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA05@9

Lab Sample ID: 885-21221-10

Date Collected: 03/10/25 14:42

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22557	MI	EET ALB	03/15/25 17:19
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 17:54

Client Sample ID: HA05@17

Lab Sample ID: 885-21221-11

Date Collected: 03/10/25 15:26

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 21:39
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 21:39
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22557	MI	EET ALB	03/15/25 17:29
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 18:07

Client Sample ID: HA06@3

Lab Sample ID: 885-21221-12

Date Collected: 03/10/25 14:47

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 22:01
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 22:01
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22557	MI	EET ALB	03/15/25 17:40
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 18:21

Client Sample ID: HA06@7

Lab Sample ID: 885-21221-13

Date Collected: 03/10/25 14:54

Matrix: Solid

Date Received: 03/11/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8015M/D		1	22400	AT	EET ALB	03/13/25 22:23
Total/NA	Prep	5030C			22243	JP	EET ALB	03/11/25 12:52
Total/NA	Analysis	8021B		1	22401	AT	EET ALB	03/13/25 22:23
Total/NA	Prep	SHAKE			22286	JM	EET ALB	03/12/25 08:10
Total/NA	Analysis	8015M/D		1	22557	MI	EET ALB	03/15/25 17:50

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Client Sample ID: HA06@7
 Date Collected: 03/10/25 14:54
 Date Received: 03/11/25 07:15

Lab Sample ID: 885-21221-13
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 18:35

Client Sample ID: HA06@17
 Date Collected: 03/10/25 15:42
 Date Received: 03/11/25 07:15

Lab Sample ID: 885-21221-14
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22368	JP	EET ALB	03/12/25 17:36
Total/NA	Analysis	8015M/D		1	22569	AT	EET ALB	03/14/25 15:07
Total/NA	Prep	5030C			22368	JP	EET ALB	03/12/25 17:36
Total/NA	Analysis	8021B		1	22486	AT	EET ALB	03/13/25 23:50
Total/NA	Prep	SHAKE			22386	MI	EET ALB	03/13/25 08:24
Total/NA	Analysis	8015M/D		1	22399	MI	EET ALB	03/13/25 20:22
Total/NA	Prep	300_Prep			22284	DL	EET ALB	03/12/25 07:45
Total/NA	Analysis	300.0		20	22380	ES	EET ALB	03/13/25 18:48

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 Unit 93

Job ID: 885-21221-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
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
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26



Chain-of-Custody Record

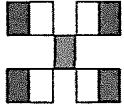
Client: Hilcorp
 Attn: Kate Kaufman
 Mailing Address: _____
 Phone #: _____
 email or Fax#: K.Kaufman@hilcorp.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Turn-Around Time:
 Standard Rush
 Project Name:
San Juan 28-6 Unit 93
 Project #:

Project Manager: Stuart Hyde
Shyde@ensolum.com
 Sampler: PA + OF
 On Ice: Yes No 100%
 # of Coolers: 1
 Cooler Temp (including CF): 1.1 ± 0.1 °C (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3/10/25	1115	Soil	HA01@0-1	14 oz	coal	
	1123		HA01@4			
	1140		HA03@0-1			
	1209		HA03@13			
	1243		HA03@17			
	1305		HA04@5			
	1321		HA04@13			
	1329		HA04@17			
	1416		HA05@0-1			
	1442		HA05@9			
	1526		HA05@17			
	1447		HA06@3			

Relinquished by: [Signature] Date: 3/10/25 Time: 1720
 Relinquished by: Stuart Wailes Date: 3/18/2025 Time: 1830
 Received by: [Signature] Date: 3/10/25 Time: 1720
 Received by: [Signature] Date: 3/11/25 Time: 7:15



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107



885-21221 COC

Analysis Request

Analysis Request	Result
TPH:8015D (GRO / DRO / MRO)	
BTEX / MTBE / TMB's (8021)	
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
(Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks:
 cc: panderson@ensolum.com
ofraelich@ensolum.com

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.



Chain-of-Custody Record

Client: Hi!corp Turn-Around Time: Standard Rush

Attn: Kate Kaufman Project Name: San Juan 28-6 Unit 93

Mailing Address: _____

Phone #: k.kaufman@hi!corp.com Project #: _____

email or Fax#: _____

QA/QC Package: Standard Level 4 (Full Validation)

Accreditation: AZ Compliance

NELAC Other

EDD (Type) _____

Project Manager: Stuart Hyde

Sampler: PA + OF

On Ice: Yes No Yes

of Coolers: 1

Cooler Temp (including CF): 1.1 3.0 ~ 1.1 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTX	MTBE / TMB's (8021)	TPH:8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ⁻³ , SO ₄ ⁻²	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	
3/10/25	1454	Soil	HA06@7	1 4 oz	cool		X	X	X									
3/10/25	1542	Soil	HA06@17	1 4 oz	cool		X	X	X									

Remarks: cc : panderson@ensolum.com ofroelich@ensolum.com

Relinquished by [Signature] Date 3/10/25 Time 1830

Relinquished by [Signature] Date 3/11/25 Time 7.15

Received by [Signature] Date 3/11/25 Time 1720

Received by [Signature] Date 3/11/25 Time 7.15



Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-21221-1

Login Number: 21221

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.	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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 4/29/2025 2:23:38 PM

JOB DESCRIPTION

San Juan 28-6#93

JOB NUMBER

885-23635-1

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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4/29/2025 2:23:38 PM

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

Client: Hilcorp Energy
Project/Site: San Juan 28-6#93

Laboratory Job ID: 885-23635-1



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	15
QC Association Summary	18
Lab Chronicle	21
Certification Summary	24
Chain of Custody	25
Receipt Checklists	26

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: San Juan 28-6#93

Job ID: 885-23635-1

Job ID: 885-23635-1

Eurofins Albuquerque

Job Narrative 885-23635-1

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 4/23/2025 6:30 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 1.2°C.

Gasoline Range Organics

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

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH04@10' (885-23635-4), BH04@15' (885-23635-5) and BH04@20' (885-23635-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: BH04@10' (885-23635-4). Elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: BH04@10' (885-23635-4). 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.

HPLC/IC

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

Eurofins Albuquerque



Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH03@1'

Lab Sample ID: 885-23635-1

Date Collected: 04/22/25 09:23

Matrix: Solid

Date Received: 04/23/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/24/25 11:02	04/25/25 12:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			04/24/25 11:02	04/25/25 12:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/24/25 11:02	04/25/25 12:07	1
Ethylbenzene	ND		0.050	mg/Kg		04/24/25 11:02	04/25/25 12:07	1
Toluene	ND		0.050	mg/Kg		04/24/25 11:02	04/25/25 12:07	1
Xylenes, Total	ND		0.099	mg/Kg		04/24/25 11:02	04/25/25 12:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			04/24/25 11:02	04/25/25 12:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		04/24/25 14:35	04/24/25 22:15	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/24/25 14:35	04/24/25 22:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			04/24/25 14:35	04/24/25 22:15	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		04/25/25 10:01	04/25/25 15:02	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH03@13'

Lab Sample ID: 885-23635-2

Date Collected: 04/22/25 09:37

Matrix: Solid

Date Received: 04/23/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/24/25 11:02	04/25/25 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			04/24/25 11:02	04/25/25 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/24/25 11:02	04/25/25 13:12	1
Ethylbenzene	ND		0.050	mg/Kg		04/24/25 11:02	04/25/25 13:12	1
Toluene	ND		0.050	mg/Kg		04/24/25 11:02	04/25/25 13:12	1
Xylenes, Total	ND		0.099	mg/Kg		04/24/25 11:02	04/25/25 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			04/24/25 11:02	04/25/25 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/24/25 14:35	04/24/25 22:38	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/24/25 14:35	04/24/25 22:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			04/24/25 14:35	04/24/25 22:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/25/25 10:01	04/25/25 16:51	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH03@27'

Lab Sample ID: 885-23635-3

Date Collected: 04/22/25 10:06

Matrix: Solid

Date Received: 04/23/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/24/25 11:02	04/25/25 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			04/24/25 11:02	04/25/25 14:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/24/25 11:02	04/25/25 14:17	1
Ethylbenzene	ND		0.047	mg/Kg		04/24/25 11:02	04/25/25 14:17	1
Toluene	ND		0.047	mg/Kg		04/24/25 11:02	04/25/25 14:17	1
Xylenes, Total	ND		0.095	mg/Kg		04/24/25 11:02	04/25/25 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			04/24/25 11:02	04/25/25 14:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		04/24/25 14:35	04/24/25 23:02	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/24/25 14:35	04/24/25 23:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			04/24/25 14:35	04/24/25 23:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/25/25 10:01	04/25/25 17:05	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH04@10'

Lab Sample ID: 885-23635-4

Date Collected: 04/22/25 11:08

Matrix: Solid

Date Received: 04/23/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	3100		2300	mg/Kg		04/24/25 11:02	04/28/25 14:38	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		35 - 166			04/24/25 11:02	04/28/25 14:38	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.12	mg/Kg		04/24/25 11:02	04/25/25 14:38	5
Ethylbenzene	6.0		0.23	mg/Kg		04/24/25 11:02	04/25/25 14:38	5
Toluene	5.6		0.23	mg/Kg		04/24/25 11:02	04/25/25 14:38	5
Xylenes, Total	130		47	mg/Kg		04/24/25 11:02	04/28/25 14:38	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	48 - 145			04/24/25 11:02	04/25/25 14:38	5
4-Bromofluorobenzene (Surr)	104		48 - 145			04/24/25 11:02	04/28/25 14:38	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1500		49	mg/Kg		04/24/25 14:35	04/25/25 13:00	5
Motor Oil Range Organics [C28-C40]	ND		250	mg/Kg		04/24/25 14:35	04/25/25 13:00	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			04/24/25 14:35	04/25/25 13:00	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		04/25/25 10:01	04/25/25 17:19	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH04@15'

Lab Sample ID: 885-23635-5

Date Collected: 04/22/25 11:14

Matrix: Solid

Date Received: 04/23/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	780		480	mg/Kg		04/24/25 11:02	04/28/25 16:28	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135		35 - 166			04/24/25 11:02	04/28/25 16:28	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.062		0.024	mg/Kg		04/24/25 11:02	04/25/25 15:00	1
Ethylbenzene	2.9		0.048	mg/Kg		04/24/25 11:02	04/25/25 15:00	1
Toluene	2.2		0.048	mg/Kg		04/24/25 11:02	04/25/25 15:00	1
Xylenes, Total	36		9.6	mg/Kg		04/24/25 11:02	04/28/25 16:28	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	236	S1+	48 - 145			04/24/25 11:02	04/25/25 15:00	1
4-Bromofluorobenzene (Surr)	109		48 - 145			04/24/25 11:02	04/28/25 16:28	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	460		9.9	mg/Kg		04/24/25 14:35	04/25/25 00:13	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/24/25 14:35	04/25/25 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			04/24/25 14:35	04/25/25 00:13	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/25/25 10:01	04/25/25 17:32	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH04@20'

Lab Sample ID: 885-23635-6

Date Collected: 04/22/25 11:25

Matrix: Solid

Date Received: 04/23/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1700		490	mg/Kg		04/24/25 11:02	04/28/25 16:50	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162		35 - 166			04/24/25 11:02	04/28/25 16:50	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.12		0.025	mg/Kg		04/24/25 11:02	04/25/25 15:22	1
Ethylbenzene	6.6		4.9	mg/Kg		04/24/25 11:02	04/28/25 16:50	100
Toluene	8.3		4.9	mg/Kg		04/24/25 11:02	04/28/25 16:50	100
Xylenes, Total	110		9.8	mg/Kg		04/24/25 11:02	04/28/25 16:50	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	387	S1+	48 - 145			04/24/25 11:02	04/25/25 15:22	1
4-Bromofluorobenzene (Surr)	116		48 - 145			04/24/25 11:02	04/28/25 16:50	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	690		9.6	mg/Kg		04/24/25 14:35	04/25/25 00:37	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/24/25 14:35	04/25/25 00:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			04/24/25 14:35	04/25/25 00:37	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		04/25/25 10:01	04/25/25 17:46	20

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH04@25'

Lab Sample ID: 885-23635-7

Date Collected: 04/22/25 11:33

Matrix: Solid

Date Received: 04/23/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/24/25 11:02	04/28/25 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		35 - 166			04/24/25 11:02	04/28/25 17:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/24/25 11:02	04/28/25 17:33	1
Ethylbenzene	ND		0.049	mg/Kg		04/24/25 11:02	04/28/25 17:33	1
Toluene	ND		0.049	mg/Kg		04/24/25 11:02	04/28/25 17:33	1
Xylenes, Total	ND		0.098	mg/Kg		04/24/25 11:02	04/28/25 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			04/24/25 11:02	04/28/25 17:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	31		10	mg/Kg		04/24/25 14:35	04/25/25 01:00	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/24/25 14:35	04/25/25 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			04/24/25 14:35	04/25/25 01:00	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		04/25/25 10:01	04/25/25 18:27	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH04@30'

Lab Sample ID: 885-23635-8

Date Collected: 04/22/25 12:34

Matrix: Solid

Date Received: 04/23/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/24/25 11:02	04/25/25 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		35 - 166			04/24/25 11:02	04/25/25 16:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/24/25 11:02	04/25/25 16:05	1
Ethylbenzene	ND		0.047	mg/Kg		04/24/25 11:02	04/25/25 16:05	1
Toluene	ND		0.047	mg/Kg		04/24/25 11:02	04/25/25 16:05	1
Xylenes, Total	ND		0.095	mg/Kg		04/24/25 11:02	04/25/25 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			04/24/25 11:02	04/25/25 16:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		04/24/25 14:35	04/25/25 01:24	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/24/25 14:35	04/25/25 01:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			04/24/25 14:35	04/25/25 01:24	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/25/25 10:01	04/25/25 18:41	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH04@35'

Lab Sample ID: 885-23635-9

Date Collected: 04/22/25 12:41

Matrix: Solid

Date Received: 04/23/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/24/25 11:02	04/25/25 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166			04/24/25 11:02	04/25/25 16:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/24/25 11:02	04/25/25 16:27	1
Ethylbenzene	ND		0.047	mg/Kg		04/24/25 11:02	04/25/25 16:27	1
Toluene	ND		0.047	mg/Kg		04/24/25 11:02	04/25/25 16:27	1
Xylenes, Total	ND		0.094	mg/Kg		04/24/25 11:02	04/25/25 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			04/24/25 11:02	04/25/25 16:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		04/24/25 14:35	04/25/25 01:47	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/24/25 14:35	04/25/25 01:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			04/24/25 14:35	04/25/25 01:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/25/25 10:01	04/25/25 18:54	20

QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

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

Lab Sample ID: MB 885-24899/1-A
 Matrix: Solid
 Analysis Batch: 24979

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 24899

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/24/25 11:02	04/25/25 11:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			04/24/25 11:02	04/25/25 11:23	1

Lab Sample ID: LCS 885-24899/2-A
 Matrix: Solid
 Analysis Batch: 24979

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 24899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	29.3		mg/Kg		117	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	228		35 - 166				

Lab Sample ID: 885-23635-1 MS
 Matrix: Solid
 Analysis Batch: 24979

Client Sample ID: BH03@1'
 Prep Type: Total/NA
 Prep Batch: 24899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.7	31.1		mg/Kg		126	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	227		35 - 166						

Lab Sample ID: 885-23635-1 MSD
 Matrix: Solid
 Analysis Batch: 24979

Client Sample ID: BH03@1'
 Prep Type: Total/NA
 Prep Batch: 24899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.8	30.1		mg/Kg		122	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	223		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-24899/1-A
 Matrix: Solid
 Analysis Batch: 24980

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 24899

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/24/25 11:02	04/25/25 11:23	1
Ethylbenzene	ND		0.050	mg/Kg		04/24/25 11:02	04/25/25 11:23	1
Toluene	ND		0.050	mg/Kg		04/24/25 11:02	04/25/25 11:23	1

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

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

Lab Sample ID: MB 885-24899/1-A
Matrix: Solid
Analysis Batch: 24980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24899

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Xylenes, Total	ND		0.10	mg/Kg		04/24/25 11:02	04/25/25 11:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		48 - 145	04/24/25 11:02	04/25/25 11:23	1

Lab Sample ID: LCS 885-24899/3-A
Matrix: Solid
Analysis Batch: 24980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24899

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	1.00	1.02		mg/Kg		102	70 - 130
Ethylbenzene	1.00	1.02		mg/Kg		102	70 - 130
m&p-Xylene	2.00	2.01		mg/Kg		101	70 - 130
o-Xylene	1.00	1.02		mg/Kg		102	70 - 130
Toluene	1.00	0.989		mg/Kg		99	70 - 130
Xylenes, Total	3.00	3.03		mg/Kg		101	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		48 - 145

Lab Sample ID: 885-23635-2 MS
Matrix: Solid
Analysis Batch: 24980

Client Sample ID: BH03@13'
Prep Type: Total/NA
Prep Batch: 24899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Benzene	ND		0.986	1.07		mg/Kg		108	70 - 130
Ethylbenzene	ND		0.986	1.10		mg/Kg		112	70 - 130
m&p-Xylene	ND		1.97	2.20		mg/Kg		112	70 - 130
o-Xylene	ND		0.986	1.10		mg/Kg		111	70 - 130
Toluene	ND		0.986	1.05		mg/Kg		106	70 - 130
Xylenes, Total	ND		2.96	3.30		mg/Kg		112	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		48 - 145

Lab Sample ID: 885-23635-2 MSD
Matrix: Solid
Analysis Batch: 24980

Client Sample ID: BH03@13'
Prep Type: Total/NA
Prep Batch: 24899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
				Result	Qualifier						
Benzene	ND		0.996	1.10		mg/Kg		111	70 - 130	3	20
Ethylbenzene	ND		0.996	1.12		mg/Kg		112	70 - 130	2	20
m&p-Xylene	ND		1.99	2.27		mg/Kg		114	70 - 130	3	20
o-Xylene	ND		0.996	1.13		mg/Kg		113	70 - 130	3	20
Toluene	ND		0.996	1.09		mg/Kg		109	70 - 130	4	20
Xylenes, Total	ND		2.99	3.40		mg/Kg		114	70 - 130	3	20

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

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

Lab Sample ID: 885-23635-2 MSD
 Matrix: Solid
 Analysis Batch: 24980

Client Sample ID: BH03@13'
 Prep Type: Total/NA
 Prep Batch: 24899

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		48 - 145

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

Lab Sample ID: MB 885-24922/1-A
 Matrix: Solid
 Analysis Batch: 24874

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 24922

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/24/25 14:35	04/24/25 18:39	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/24/25 14:35	04/24/25 18:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134	04/24/25 14:35	04/24/25 18:39	1

Lab Sample ID: LCS 885-24922/2-A
 Matrix: Solid
 Analysis Batch: 24874

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 24922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	51.8		mg/Kg		104	51 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	108		62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-24986/1-A
 Matrix: Solid
 Analysis Batch: 25010

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 24986

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		04/25/25 10:01	04/25/25 13:13	1

Lab Sample ID: LCS 885-24986/3-A
 Matrix: Solid
 Analysis Batch: 25010

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 24986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	15.1		mg/Kg		101	90 - 110

Lab Sample ID: LLCS 885-24986/2-A
 Matrix: Solid
 Analysis Batch: 25010

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 24986

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.50	1.56		mg/Kg		104	50 - 150

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QC Association Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

GC VOA

Prep Batch: 24899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-1	BH03@1'	Total/NA	Solid	5030C	
885-23635-2	BH03@13'	Total/NA	Solid	5030C	
885-23635-3	BH03@27'	Total/NA	Solid	5030C	
885-23635-4	BH04@10'	Total/NA	Solid	5030C	
885-23635-5	BH04@15'	Total/NA	Solid	5030C	
885-23635-6	BH04@20'	Total/NA	Solid	5030C	
885-23635-7	BH04@25'	Total/NA	Solid	5030C	
885-23635-8	BH04@30'	Total/NA	Solid	5030C	
885-23635-9	BH04@35'	Total/NA	Solid	5030C	
MB 885-24899/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-24899/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-24899/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-23635-1 MS	BH03@1'	Total/NA	Solid	5030C	
885-23635-1 MSD	BH03@1'	Total/NA	Solid	5030C	
885-23635-2 MS	BH03@13'	Total/NA	Solid	5030C	
885-23635-2 MSD	BH03@13'	Total/NA	Solid	5030C	

Analysis Batch: 24979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-1	BH03@1'	Total/NA	Solid	8015M/D	24899
885-23635-2	BH03@13'	Total/NA	Solid	8015M/D	24899
885-23635-3	BH03@27'	Total/NA	Solid	8015M/D	24899
885-23635-8	BH04@30'	Total/NA	Solid	8015M/D	24899
885-23635-9	BH04@35'	Total/NA	Solid	8015M/D	24899
MB 885-24899/1-A	Method Blank	Total/NA	Solid	8015M/D	24899
LCS 885-24899/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	24899
885-23635-1 MS	BH03@1'	Total/NA	Solid	8015M/D	24899
885-23635-1 MSD	BH03@1'	Total/NA	Solid	8015M/D	24899

Analysis Batch: 24980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-1	BH03@1'	Total/NA	Solid	8021B	24899
885-23635-2	BH03@13'	Total/NA	Solid	8021B	24899
885-23635-3	BH03@27'	Total/NA	Solid	8021B	24899
885-23635-4	BH04@10'	Total/NA	Solid	8021B	24899
885-23635-5	BH04@15'	Total/NA	Solid	8021B	24899
885-23635-6	BH04@20'	Total/NA	Solid	8021B	24899
885-23635-8	BH04@30'	Total/NA	Solid	8021B	24899
885-23635-9	BH04@35'	Total/NA	Solid	8021B	24899
MB 885-24899/1-A	Method Blank	Total/NA	Solid	8021B	24899
LCS 885-24899/3-A	Lab Control Sample	Total/NA	Solid	8021B	24899
885-23635-2 MS	BH03@13'	Total/NA	Solid	8021B	24899
885-23635-2 MSD	BH03@13'	Total/NA	Solid	8021B	24899

Analysis Batch: 25086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-4	BH04@10'	Total/NA	Solid	8015M/D	24899
885-23635-5	BH04@15'	Total/NA	Solid	8015M/D	24899
885-23635-6	BH04@20'	Total/NA	Solid	8015M/D	24899
885-23635-7	BH04@25'	Total/NA	Solid	8015M/D	24899

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

GC VOA

Analysis Batch: 25087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-4	BH04@10'	Total/NA	Solid	8021B	24899
885-23635-5	BH04@15'	Total/NA	Solid	8021B	24899
885-23635-6	BH04@20'	Total/NA	Solid	8021B	24899
885-23635-7	BH04@25'	Total/NA	Solid	8021B	24899

GC Semi VOA

Analysis Batch: 24874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-1	BH03@1'	Total/NA	Solid	8015M/D	24922
885-23635-2	BH03@13'	Total/NA	Solid	8015M/D	24922
885-23635-3	BH03@27'	Total/NA	Solid	8015M/D	24922
885-23635-5	BH04@15'	Total/NA	Solid	8015M/D	24922
885-23635-6	BH04@20'	Total/NA	Solid	8015M/D	24922
885-23635-7	BH04@25'	Total/NA	Solid	8015M/D	24922
885-23635-8	BH04@30'	Total/NA	Solid	8015M/D	24922
885-23635-9	BH04@35'	Total/NA	Solid	8015M/D	24922
MB 885-24922/1-A	Method Blank	Total/NA	Solid	8015M/D	24922
LCS 885-24922/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	24922

Prep Batch: 24922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-1	BH03@1'	Total/NA	Solid	SHAKE	
885-23635-2	BH03@13'	Total/NA	Solid	SHAKE	
885-23635-3	BH03@27'	Total/NA	Solid	SHAKE	
885-23635-4	BH04@10'	Total/NA	Solid	SHAKE	
885-23635-5	BH04@15'	Total/NA	Solid	SHAKE	
885-23635-6	BH04@20'	Total/NA	Solid	SHAKE	
885-23635-7	BH04@25'	Total/NA	Solid	SHAKE	
885-23635-8	BH04@30'	Total/NA	Solid	SHAKE	
885-23635-9	BH04@35'	Total/NA	Solid	SHAKE	
MB 885-24922/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-24922/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 24973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-4	BH04@10'	Total/NA	Solid	8015M/D	24922

HPLC/IC

Prep Batch: 24986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-1	BH03@1'	Total/NA	Solid	300_Prep	
885-23635-2	BH03@13'	Total/NA	Solid	300_Prep	
885-23635-3	BH03@27'	Total/NA	Solid	300_Prep	
885-23635-4	BH04@10'	Total/NA	Solid	300_Prep	
885-23635-5	BH04@15'	Total/NA	Solid	300_Prep	
885-23635-6	BH04@20'	Total/NA	Solid	300_Prep	
885-23635-7	BH04@25'	Total/NA	Solid	300_Prep	
885-23635-8	BH04@30'	Total/NA	Solid	300_Prep	
885-23635-9	BH04@35'	Total/NA	Solid	300_Prep	
MB 885-24986/1-A	Method Blank	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

HPLC/IC (Continued)

Prep Batch: 24986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-24986/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LLCS 885-24986/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 25010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23635-1	BH03@1'	Total/NA	Solid	300.0	24986
885-23635-2	BH03@13'	Total/NA	Solid	300.0	24986
885-23635-3	BH03@27'	Total/NA	Solid	300.0	24986
885-23635-4	BH04@10'	Total/NA	Solid	300.0	24986
885-23635-5	BH04@15'	Total/NA	Solid	300.0	24986
885-23635-6	BH04@20'	Total/NA	Solid	300.0	24986
885-23635-7	BH04@25'	Total/NA	Solid	300.0	24986
885-23635-8	BH04@30'	Total/NA	Solid	300.0	24986
885-23635-9	BH04@35'	Total/NA	Solid	300.0	24986
MB 885-24986/1-A	Method Blank	Total/NA	Solid	300.0	24986
LCS 885-24986/3-A	Lab Control Sample	Total/NA	Solid	300.0	24986
LLCS 885-24986/2-A	Lab Control Sample	Total/NA	Solid	300.0	24986

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH03@1'

Lab Sample ID: 885-23635-1

Date Collected: 04/22/25 09:23

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		1	24979	AT	EET ALB	04/25/25 12:07
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	24980	AT	EET ALB	04/25/25 12:07
Total/NA	Prep	SHAKE			24922	MI	EET ALB	04/24/25 14:35
Total/NA	Analysis	8015M/D		1	24874	MI	EET ALB	04/24/25 22:15
Total/NA	Prep	300_Prep			24986	DL	EET ALB	04/25/25 10:01
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 15:02

Client Sample ID: BH03@13'

Lab Sample ID: 885-23635-2

Date Collected: 04/22/25 09:37

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		1	24979	AT	EET ALB	04/25/25 13:12
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	24980	AT	EET ALB	04/25/25 13:12
Total/NA	Prep	SHAKE			24922	MI	EET ALB	04/24/25 14:35
Total/NA	Analysis	8015M/D		1	24874	MI	EET ALB	04/24/25 22:38
Total/NA	Prep	300_Prep			24986	DL	EET ALB	04/25/25 10:01
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 16:51

Client Sample ID: BH03@27'

Lab Sample ID: 885-23635-3

Date Collected: 04/22/25 10:06

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		1	24979	AT	EET ALB	04/25/25 14:17
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	24980	AT	EET ALB	04/25/25 14:17
Total/NA	Prep	SHAKE			24922	MI	EET ALB	04/24/25 14:35
Total/NA	Analysis	8015M/D		1	24874	MI	EET ALB	04/24/25 23:02
Total/NA	Prep	300_Prep			24986	DL	EET ALB	04/25/25 10:01
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 17:05

Client Sample ID: BH04@10'

Lab Sample ID: 885-23635-4

Date Collected: 04/22/25 11:08

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		500	25086	AT	EET ALB	04/28/25 14:38

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH04@10'

Lab Sample ID: 885-23635-4

Date Collected: 04/22/25 11:08

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		5	24980	AT	EET ALB	04/25/25 14:38
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		500	25087	AT	EET ALB	04/28/25 14:38
Total/NA	Prep	SHAKE			24922	MI	EET ALB	04/24/25 14:35
Total/NA	Analysis	8015M/D		5	24973	MI	EET ALB	04/25/25 13:00
Total/NA	Prep	300_Prep			24986	DL	EET ALB	04/25/25 10:01
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 17:19

Client Sample ID: BH04@15'

Lab Sample ID: 885-23635-5

Date Collected: 04/22/25 11:14

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		100	25086	AT	EET ALB	04/28/25 16:28
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	24980	AT	EET ALB	04/25/25 15:00
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		100	25087	AT	EET ALB	04/28/25 16:28
Total/NA	Prep	SHAKE			24922	MI	EET ALB	04/24/25 14:35
Total/NA	Analysis	8015M/D		1	24874	MI	EET ALB	04/25/25 00:13
Total/NA	Prep	300_Prep			24986	DL	EET ALB	04/25/25 10:01
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 17:32

Client Sample ID: BH04@20'

Lab Sample ID: 885-23635-6

Date Collected: 04/22/25 11:25

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		100	25086	AT	EET ALB	04/28/25 16:50
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	24980	AT	EET ALB	04/25/25 15:22
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		100	25087	AT	EET ALB	04/28/25 16:50
Total/NA	Prep	SHAKE			24922	MI	EET ALB	04/24/25 14:35
Total/NA	Analysis	8015M/D		1	24874	MI	EET ALB	04/25/25 00:37
Total/NA	Prep	300_Prep			24986	DL	EET ALB	04/25/25 10:01
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 17:46

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Client Sample ID: BH04@25'

Lab Sample ID: 885-23635-7

Date Collected: 04/22/25 11:33

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		1	25086	AT	EET ALB	04/28/25 17:33
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	25087	AT	EET ALB	04/28/25 17:33
Total/NA	Prep	SHAKE			24922	MI	EET ALB	04/24/25 14:35
Total/NA	Analysis	8015M/D		1	24874	MI	EET ALB	04/25/25 01:00
Total/NA	Prep	300_Prep			24986	DL	EET ALB	04/25/25 10:01
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 18:27

Client Sample ID: BH04@30'

Lab Sample ID: 885-23635-8

Date Collected: 04/22/25 12:34

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		1	24979	AT	EET ALB	04/25/25 16:05
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	24980	AT	EET ALB	04/25/25 16:05
Total/NA	Prep	SHAKE			24922	MI	EET ALB	04/24/25 14:35
Total/NA	Analysis	8015M/D		1	24874	MI	EET ALB	04/25/25 01:24
Total/NA	Prep	300_Prep			24986	DL	EET ALB	04/25/25 10:01
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 18:41

Client Sample ID: BH04@35'

Lab Sample ID: 885-23635-9

Date Collected: 04/22/25 12:41

Matrix: Solid

Date Received: 04/23/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		1	24979	AT	EET ALB	04/25/25 16:27
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	24980	AT	EET ALB	04/25/25 16:27
Total/NA	Prep	SHAKE			24922	MI	EET ALB	04/24/25 14:35
Total/NA	Analysis	8015M/D		1	24874	MI	EET ALB	04/25/25 01:47
Total/NA	Prep	300_Prep			24986	DL	EET ALB	04/25/25 10:01
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 18:54

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6#93

Job ID: 885-23635-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
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
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26



Chain-of-Custody Record

Client: Hilcorp Energy Co
 Mailing Address:
 Phone #: 07A 198B157
 email or Fax#: Kkauffman@hilcorp.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance Other
 NELAC Other
 EDD (Type)

Turn-Around Time: Standard Rush
 Project Name: San Juan 28-6 #93
 Project #: 07A 198B157
 Project Manager: Wes Weichert
wweichert@consolum.com
 Sampler: Tracy Dambrowski
 On Ice: Yes No mg/l
 # of Coolers: 1
 Cooler Temp (including CF): 1.0 + 0.2 = 1.2 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4/22/25	0923	Soil	BH03C1'	1-4 oz jar	COOL	
	0937		BH03C13'			
	1006		BH03C27'			
	1108		BH04C10'			
	1114		BH04C15'			
	1125		BH04C20'			
	1133		BH04C25'			
	1234		BH04C30'			
	1241		BH04C35'			

Date: 4/22 Time: 1700 Relinquished by: [Signature]
 Date: 4/22/25 Time: 1835 Relinquished by: [Signature]
 Received by: [Signature] Date: 4/22/25 Time: 1700
 Received by: [Signature] Date: 4/22/25 Time: 1630



www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107
 885-23635 COC

Analysis Request

<input checked="" type="checkbox"/> BTEX (MTBE / TMBs) (8021)	<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCA 8 Metals	<input checked="" type="checkbox"/> Cl, F, Br, NO ₂ , NO ₃ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
---	--	----------------------------	--------------------	--------------------------	--------------	--	------------	-----------------	---------------------------------

Remarks: CC Stuart Hyde shyde@consolum.com
Kate Kaufman kkauffman@consolum.com
hilcorp.com



Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-23635-1

Login Number: 23635

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

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JOB DESCRIPTION

San Juan 28-6 #93

JOB NUMBER

885-23715-1

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

Client: Hilcorp Energy
Project/Site: San Juan 28-6 #93

Laboratory Job ID: 885-23715-1



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	11
QC Association Summary	13
Lab Chronicle	15
Certification Summary	17
Chain of Custody	18
Receipt Checklists	19

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: San Juan 28-6 #93

Job ID: 885-23715-1

Job ID: 885-23715-1

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Job Narrative 885-23715-1

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 4/24/2025 6:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

Gasoline Range Organics

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

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH02@9' (885-23715-1), BH02@19' (885-23715-2), BH02@31' (885-23715-3) and BH02@41' (885-23715-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

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

HPLC/IC

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

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

Client Sample ID: BH02@9'

Lab Sample ID: 885-23715-1

Date Collected: 04/23/25 10:56

Matrix: Solid

Date Received: 04/24/25 06:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1500		470	mg/Kg		04/24/25 11:02	04/28/25 16:06	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	35 - 166			04/24/25 11:02	04/28/25 16:06	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/24/25 11:02	04/25/25 17:32	1
Ethylbenzene	4.0		0.047	mg/Kg		04/24/25 11:02	04/25/25 17:32	1
Toluene	4.1		0.047	mg/Kg		04/24/25 11:02	04/25/25 17:32	1
Xylenes, Total	69		9.4	mg/Kg		04/24/25 11:02	04/28/25 16:06	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	269	S1+	48 - 145			04/24/25 11:02	04/25/25 17:32	1
4-Bromofluorobenzene (Surr)	119		48 - 145			04/24/25 11:02	04/28/25 16:06	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	350		9.9	mg/Kg		04/25/25 10:51	04/25/25 19:56	1
Motor Oil Range Organics [C28-C40]	67		50	mg/Kg		04/25/25 10:51	04/25/25 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			04/25/25 10:51	04/25/25 19:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/25/25 10:03	04/25/25 19:35	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

Client Sample ID: BH02@19'

Lab Sample ID: 885-23715-2

Date Collected: 04/23/25 11:17

Matrix: Solid

Date Received: 04/24/25 06:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	8100		2400	mg/Kg		04/24/25 11:02	04/28/25 15:00	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		35 - 166			04/24/25 11:02	04/28/25 15:00	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2		0.12	mg/Kg		04/24/25 11:02	04/25/25 17:53	5
Ethylbenzene	23		0.24	mg/Kg		04/24/25 11:02	04/25/25 17:53	5
Toluene	160		24	mg/Kg		04/24/25 11:02	04/28/25 15:00	500
Xylenes, Total	450		47	mg/Kg		04/24/25 11:02	04/28/25 15:00	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	203	S1+	48 - 145			04/24/25 11:02	04/25/25 17:53	5
4-Bromofluorobenzene (Surr)	103		48 - 145			04/24/25 11:02	04/28/25 15:00	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	280		9.6	mg/Kg		04/25/25 10:51	04/25/25 20:08	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/25/25 10:51	04/25/25 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			04/25/25 10:51	04/25/25 20:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		04/25/25 10:03	04/25/25 20:16	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

Client Sample ID: BH02@31'

Lab Sample ID: 885-23715-3

Date Collected: 04/23/25 11:45

Matrix: Solid

Date Received: 04/24/25 06:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2500		2400	mg/Kg		04/24/25 11:02	04/28/25 15:22	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166			04/24/25 11:02	04/28/25 15:22	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.31		0.12	mg/Kg		04/24/25 11:02	04/25/25 18:15	5
Ethylbenzene	9.7		0.24	mg/Kg		04/24/25 11:02	04/25/25 18:15	5
Toluene	32		24	mg/Kg		04/24/25 11:02	04/28/25 15:22	500
Xylenes, Total	150		49	mg/Kg		04/24/25 11:02	04/28/25 15:22	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	48 - 145			04/24/25 11:02	04/25/25 18:15	5
4-Bromofluorobenzene (Surr)	100		48 - 145			04/24/25 11:02	04/28/25 15:22	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	380		9.1	mg/Kg		04/25/25 10:51	04/25/25 20:21	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/25/25 10:51	04/25/25 20:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			04/25/25 10:51	04/25/25 20:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		04/25/25 10:03	04/25/25 22:05	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

Client Sample ID: BH02@41'

Lab Sample ID: 885-23715-4

Date Collected: 04/23/25 12:37

Matrix: Solid

Date Received: 04/24/25 06:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2700		2400	mg/Kg		04/24/25 11:02	04/28/25 15:44	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		35 - 166			04/24/25 11:02	04/28/25 15:44	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.79		0.12	mg/Kg		04/24/25 11:02	04/25/25 18:37	5
Ethylbenzene	11		0.24	mg/Kg		04/24/25 11:02	04/25/25 18:37	5
Toluene	68		24	mg/Kg		04/24/25 11:02	04/28/25 15:44	500
Xylenes, Total	120		49	mg/Kg		04/24/25 11:02	04/28/25 15:44	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	48 - 145			04/24/25 11:02	04/25/25 18:37	5
4-Bromofluorobenzene (Surr)	103		48 - 145			04/24/25 11:02	04/28/25 15:44	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	390		9.7	mg/Kg		04/25/25 10:51	04/25/25 20:33	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/25/25 10:51	04/25/25 20:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			04/25/25 10:51	04/25/25 20:33	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/25/25 10:03	04/25/25 22:19	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

Client Sample ID: BH02@51'

Lab Sample ID: 885-23715-5

Date Collected: 04/23/25 13:45

Matrix: Solid

Date Received: 04/24/25 06:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	110		4.8	mg/Kg		04/24/25 11:02	04/28/25 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149		35 - 166			04/24/25 11:02	04/28/25 17:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.033		0.024	mg/Kg		04/24/25 11:02	04/28/25 17:55	1
Ethylbenzene	0.21		0.048	mg/Kg		04/24/25 11:02	04/28/25 17:55	1
Toluene	1.3		0.048	mg/Kg		04/24/25 11:02	04/28/25 17:55	1
Xylenes, Total	2.0		0.096	mg/Kg		04/24/25 11:02	04/28/25 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		48 - 145			04/24/25 11:02	04/28/25 17:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		04/25/25 10:51	04/25/25 20:45	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/25/25 10:51	04/25/25 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			04/25/25 10:51	04/25/25 20:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/25/25 10:03	04/25/25 22:33	20

QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

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

Lab Sample ID: MB 885-24899/1-A
 Matrix: Solid
 Analysis Batch: 24979

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 24899

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/24/25 11:02	04/25/25 11:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			04/24/25 11:02	04/25/25 11:23	1

Lab Sample ID: LCS 885-24899/2-A
 Matrix: Solid
 Analysis Batch: 24979

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 24899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	29.3		mg/Kg		117	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	228		35 - 166				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-24899/1-A
 Matrix: Solid
 Analysis Batch: 24980

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 24899

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/24/25 11:02	04/25/25 11:23	1
Ethylbenzene	ND		0.050	mg/Kg		04/24/25 11:02	04/25/25 11:23	1
Toluene	ND		0.050	mg/Kg		04/24/25 11:02	04/25/25 11:23	1
Xylenes, Total	ND		0.10	mg/Kg		04/24/25 11:02	04/25/25 11:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			04/24/25 11:02	04/25/25 11:23	1

Lab Sample ID: LCS 885-24899/3-A
 Matrix: Solid
 Analysis Batch: 24980

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 24899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.02		mg/Kg		102	70 - 130
Ethylbenzene	1.00	1.02		mg/Kg		102	70 - 130
m&p-Xylene	2.00	2.01		mg/Kg		101	70 - 130
o-Xylene	1.00	1.02		mg/Kg		102	70 - 130
Toluene	1.00	0.989		mg/Kg		99	70 - 130
Xylenes, Total	3.00	3.03		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		48 - 145				

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

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

Lab Sample ID: MB 885-24997/1-A
 Matrix: Solid
 Analysis Batch: 24974

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 24997

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/25/25 10:51	04/25/25 14:50	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/25/25 10:51	04/25/25 14:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			04/25/25 10:51	04/25/25 14:50	1

Lab Sample ID: LCS 885-24997/2-A
 Matrix: Solid
 Analysis Batch: 24974

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 24997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	43.8		mg/Kg		88	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	109		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-24987/1-A
 Matrix: Solid
 Analysis Batch: 25010

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 24987

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		04/25/25 10:03	04/25/25 13:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
Chloride	101		90 - 110					

Lab Sample ID: LCS 885-24987/2-A
 Matrix: Solid
 Analysis Batch: 25010

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 24987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	15.2		mg/Kg		101	90 - 110
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Chloride	101		90 - 110				

Lab Sample ID: 885-23715-1 MS
 Matrix: Solid
 Analysis Batch: 25010

Client Sample ID: BH02@9'
 Prep Type: Total/NA
 Prep Batch: 24987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150
Surrogate	Sample %Recovery	Sample Qualifier	Limits	MS %Recovery	MS Qualifier				
Chloride	101		90 - 110	101					

Lab Sample ID: 885-23715-1 MSD
 Matrix: Solid
 Analysis Batch: 25010

Client Sample ID: BH02@9'
 Prep Type: Total/NA
 Prep Batch: 24987

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.0	ND		mg/Kg		NC	50 - 150	NC	20
Surrogate	Sample %Recovery	Sample Qualifier	Limits	MSD %Recovery	MSD Qualifier						
Chloride	101		90 - 110	101							

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QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

GC VOA

Prep Batch: 24899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23715-1	BH02@9'	Total/NA	Solid	5030C	
885-23715-2	BH02@19'	Total/NA	Solid	5030C	
885-23715-3	BH02@31'	Total/NA	Solid	5030C	
885-23715-4	BH02@41'	Total/NA	Solid	5030C	
885-23715-5	BH02@51'	Total/NA	Solid	5030C	
MB 885-24899/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-24899/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-24899/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 24979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-24899/1-A	Method Blank	Total/NA	Solid	8015M/D	24899
LCS 885-24899/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	24899

Analysis Batch: 24980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23715-1	BH02@9'	Total/NA	Solid	8021B	24899
885-23715-2	BH02@19'	Total/NA	Solid	8021B	24899
885-23715-3	BH02@31'	Total/NA	Solid	8021B	24899
885-23715-4	BH02@41'	Total/NA	Solid	8021B	24899
MB 885-24899/1-A	Method Blank	Total/NA	Solid	8021B	24899
LCS 885-24899/3-A	Lab Control Sample	Total/NA	Solid	8021B	24899

Analysis Batch: 25086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23715-1	BH02@9'	Total/NA	Solid	8015M/D	24899
885-23715-2	BH02@19'	Total/NA	Solid	8015M/D	24899
885-23715-3	BH02@31'	Total/NA	Solid	8015M/D	24899
885-23715-4	BH02@41'	Total/NA	Solid	8015M/D	24899
885-23715-5	BH02@51'	Total/NA	Solid	8015M/D	24899

Analysis Batch: 25087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23715-1	BH02@9'	Total/NA	Solid	8021B	24899
885-23715-2	BH02@19'	Total/NA	Solid	8021B	24899
885-23715-3	BH02@31'	Total/NA	Solid	8021B	24899
885-23715-4	BH02@41'	Total/NA	Solid	8021B	24899
885-23715-5	BH02@51'	Total/NA	Solid	8021B	24899

GC Semi VOA

Analysis Batch: 24974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23715-1	BH02@9'	Total/NA	Solid	8015M/D	24997
885-23715-2	BH02@19'	Total/NA	Solid	8015M/D	24997
885-23715-3	BH02@31'	Total/NA	Solid	8015M/D	24997
885-23715-4	BH02@41'	Total/NA	Solid	8015M/D	24997
885-23715-5	BH02@51'	Total/NA	Solid	8015M/D	24997
MB 885-24997/1-A	Method Blank	Total/NA	Solid	8015M/D	24997
LCS 885-24997/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	24997

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

GC Semi VOA

Prep Batch: 24997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23715-1	BH02@9'	Total/NA	Solid	SHAKE	
885-23715-2	BH02@19'	Total/NA	Solid	SHAKE	
885-23715-3	BH02@31'	Total/NA	Solid	SHAKE	
885-23715-4	BH02@41'	Total/NA	Solid	SHAKE	
885-23715-5	BH02@51'	Total/NA	Solid	SHAKE	
MB 885-24997/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-24997/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 24987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23715-1	BH02@9'	Total/NA	Solid	300_Prep	
885-23715-2	BH02@19'	Total/NA	Solid	300_Prep	
885-23715-3	BH02@31'	Total/NA	Solid	300_Prep	
885-23715-4	BH02@41'	Total/NA	Solid	300_Prep	
885-23715-5	BH02@51'	Total/NA	Solid	300_Prep	
MB 885-24987/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-24987/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-23715-1 MS	BH02@9'	Total/NA	Solid	300_Prep	
885-23715-1 MSD	BH02@9'	Total/NA	Solid	300_Prep	

Analysis Batch: 25010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23715-1	BH02@9'	Total/NA	Solid	300.0	24987
885-23715-2	BH02@19'	Total/NA	Solid	300.0	24987
885-23715-3	BH02@31'	Total/NA	Solid	300.0	24987
885-23715-4	BH02@41'	Total/NA	Solid	300.0	24987
885-23715-5	BH02@51'	Total/NA	Solid	300.0	24987
MB 885-24987/1-A	Method Blank	Total/NA	Solid	300.0	24987
LCS 885-24987/2-A	Lab Control Sample	Total/NA	Solid	300.0	24987
885-23715-1 MS	BH02@9'	Total/NA	Solid	300.0	24987
885-23715-1 MSD	BH02@9'	Total/NA	Solid	300.0	24987

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

Client Sample ID: BH02@9'

Lab Sample ID: 885-23715-1

Date Collected: 04/23/25 10:56

Matrix: Solid

Date Received: 04/24/25 06:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		100	25086	AT	EET ALB	04/28/25 16:06
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	24980	AT	EET ALB	04/25/25 17:32
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		100	25087	AT	EET ALB	04/28/25 16:06
Total/NA	Prep	SHAKE			24997	MI	EET ALB	04/25/25 10:51
Total/NA	Analysis	8015M/D		1	24974	MI	EET ALB	04/25/25 19:56
Total/NA	Prep	300_Prep			24987	DL	EET ALB	04/25/25 10:03
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 19:35

Client Sample ID: BH02@19'

Lab Sample ID: 885-23715-2

Date Collected: 04/23/25 11:17

Matrix: Solid

Date Received: 04/24/25 06:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		500	25086	AT	EET ALB	04/28/25 15:00
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		5	24980	AT	EET ALB	04/25/25 17:53
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		500	25087	AT	EET ALB	04/28/25 15:00
Total/NA	Prep	SHAKE			24997	MI	EET ALB	04/25/25 10:51
Total/NA	Analysis	8015M/D		1	24974	MI	EET ALB	04/25/25 20:08
Total/NA	Prep	300_Prep			24987	DL	EET ALB	04/25/25 10:03
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 20:16

Client Sample ID: BH02@31'

Lab Sample ID: 885-23715-3

Date Collected: 04/23/25 11:45

Matrix: Solid

Date Received: 04/24/25 06:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		500	25086	AT	EET ALB	04/28/25 15:22
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		5	24980	AT	EET ALB	04/25/25 18:15
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		500	25087	AT	EET ALB	04/28/25 15:22
Total/NA	Prep	SHAKE			24997	MI	EET ALB	04/25/25 10:51
Total/NA	Analysis	8015M/D		1	24974	MI	EET ALB	04/25/25 20:21
Total/NA	Prep	300_Prep			24987	DL	EET ALB	04/25/25 10:03
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 22:05

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

Client Sample ID: BH02@41'

Lab Sample ID: 885-23715-4

Date Collected: 04/23/25 12:37

Matrix: Solid

Date Received: 04/24/25 06:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		500	25086	AT	EET ALB	04/28/25 15:44
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		5	24980	AT	EET ALB	04/25/25 18:37
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		500	25087	AT	EET ALB	04/28/25 15:44
Total/NA	Prep	SHAKE			24997	MI	EET ALB	04/25/25 10:51
Total/NA	Analysis	8015M/D		1	24974	MI	EET ALB	04/25/25 20:33
Total/NA	Prep	300_Prep			24987	DL	EET ALB	04/25/25 10:03
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 22:19

Client Sample ID: BH02@51'

Lab Sample ID: 885-23715-5

Date Collected: 04/23/25 13:45

Matrix: Solid

Date Received: 04/24/25 06:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8015M/D		1	25086	AT	EET ALB	04/28/25 17:55
Total/NA	Prep	5030C			24899	JE	EET ALB	04/24/25 11:02
Total/NA	Analysis	8021B		1	25087	AT	EET ALB	04/28/25 17:55
Total/NA	Prep	SHAKE			24997	MI	EET ALB	04/25/25 10:51
Total/NA	Analysis	8015M/D		1	24974	MI	EET ALB	04/25/25 20:45
Total/NA	Prep	300_Prep			24987	DL	EET ALB	04/25/25 10:03
Total/NA	Analysis	300.0		20	25010	ES	EET ALB	04/25/25 22:33

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: San Juan 28-6 #93

Job ID: 885-23715-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date																																				
New Mexico	State	NM9425, NM0901	02-27-26																																				
<p>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.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>300.0</td> <td>300_Prep</td> <td>Solid</td> <td>Chloride</td> </tr> <tr> <td>8015M/D</td> <td>5030C</td> <td>Solid</td> <td>Gasoline Range Organics [C6 - C10]</td> </tr> <tr> <td>8015M/D</td> <td>SHAKE</td> <td>Solid</td> <td>Diesel Range Organics [C10-C28]</td> </tr> <tr> <td>8015M/D</td> <td>SHAKE</td> <td>Solid</td> <td>Motor Oil Range Organics [C28-C40]</td> </tr> <tr> <td>8021B</td> <td>5030C</td> <td>Solid</td> <td>Benzene</td> </tr> <tr> <td>8021B</td> <td>5030C</td> <td>Solid</td> <td>Ethylbenzene</td> </tr> <tr> <td>8021B</td> <td>5030C</td> <td>Solid</td> <td>Toluene</td> </tr> <tr> <td>8021B</td> <td>5030C</td> <td>Solid</td> <td>Xylenes, Total</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	300.0	300_Prep	Solid	Chloride	8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]	8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]	8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]	8021B	5030C	Solid	Benzene	8021B	5030C	Solid	Ethylbenzene	8021B	5030C	Solid	Toluene	8021B	5030C	Solid	Xylenes, Total
Analysis Method	Prep Method	Matrix	Analyte																																				
300.0	300_Prep	Solid	Chloride																																				
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]																																				
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]																																				
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]																																				
8021B	5030C	Solid	Benzene																																				
8021B	5030C	Solid	Ethylbenzene																																				
8021B	5030C	Solid	Toluene																																				
8021B	5030C	Solid	Xylenes, Total																																				
Oregon	NELAP	NM100001	02-26-26																																				



Chain-of-Custody Record

Client: Hilcorp Energy Co

Turn-Around Time: 5 days

Standard Rush

Project Name: San Juan 28-6 #93

Mailing Address:

Project #:



www.hallenvironmental.com 885-23715 COC
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Project Manager: Ines Weichert

Sampler: mgd

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 3.1 ± 0.2 = 3.3 (°C)

Analysis Request	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
CLP 8, NO ₃ , NO ₂ , T, Pb	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4/23	1656	SOIL	BH02C 9'	1-4oz jar	COOL	
	1117		BH02C 19'			
	1145		BH02C 31'			
	1237		BH02C 41'			
	1345		BH02C 51'			

Relinquished by: [Signature] Date: 4/23/25 Time: 1620

Relinquished by: [Signature] Date: 4/29/25 Time: 1830

Received by: [Signature] Date: 4/23/25 Time: 1620

Received by: [Signature] Date: 4/24/25 Time: 0:55

Remarks: CC: Kate Kaufman kkaufman@hilcorp.com
 Ines Weichert inesweichert@ensolum.com
 Stuart Hyde sthyde@ensolum.com

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.



Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-23715-1

Login Number: 23715

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.	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?	False	Refer to Job Narrative for details.
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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman
 Hilcorp Energy
 PO BOX 4700
 Farmington, New Mexico 87499

Generated 8/8/2025 12:54:29 PM

JOB DESCRIPTION

SJ 28-6 93

JOB NUMBER

885-29969-1

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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8/8/2025 12:54:29 PM

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

Client: Hilcorp Energy
Project/Site: SJ 28-6 93

Laboratory Job ID: 885-29969-1



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	12
Certification Summary	13
Chain of Custody	14
Receipt Checklists	15

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: SJ 28-6 93

Job ID: 885-29969-1

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
Project: SJ 28-6 93

Job ID: 885-29969-1

Job ID: 885-29969-1

Eurofins Albuquerque

Job Narrative 885-29969-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 7/31/2025 7:10 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 2.1°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque



Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 93

Job ID: 885-29969-1

Client Sample ID: BH11 4-6

Lab Sample ID: 885-29969-1

Date Collected: 07/29/25 10:10

Matrix: Solid

Date Received: 07/31/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		08/04/25 12:33	08/05/25 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			08/04/25 12:33	08/05/25 19:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/04/25 12:33	08/05/25 19:23	1
Ethylbenzene	ND		0.048	mg/Kg		08/04/25 12:33	08/05/25 19:23	1
Toluene	ND		0.048	mg/Kg		08/04/25 12:33	08/05/25 19:23	1
Xylenes, Total	ND		0.097	mg/Kg		08/04/25 12:33	08/05/25 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/04/25 12:33	08/05/25 19:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		08/04/25 16:37	08/07/25 18:11	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/04/25 16:37	08/07/25 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			08/04/25 16:37	08/07/25 18:11	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68		60	mg/Kg		08/05/25 07:31	08/05/25 12:42	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 93

Job ID: 885-29969-1

Client Sample ID: BH11 29-31

Lab Sample ID: 885-29969-2

Date Collected: 07/29/25 10:30

Matrix: Solid

Date Received: 07/31/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		08/04/25 12:33	08/05/25 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			08/04/25 12:33	08/05/25 20:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/04/25 12:33	08/05/25 20:10	1
Ethylbenzene	ND		0.049	mg/Kg		08/04/25 12:33	08/05/25 20:10	1
Toluene	ND		0.049	mg/Kg		08/04/25 12:33	08/05/25 20:10	1
Xylenes, Total	ND		0.098	mg/Kg		08/04/25 12:33	08/05/25 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/04/25 12:33	08/05/25 20:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		08/04/25 16:37	08/07/25 18:24	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/04/25 16:37	08/07/25 18:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			08/04/25 16:37	08/07/25 18:24	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/05/25 07:31	08/05/25 12:53	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 28-6 93

Job ID: 885-29969-1

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

Lab Sample ID: MB 885-31506/1-A
Matrix: Solid
Analysis Batch: 31493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31506

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		08/04/25 12:33	08/05/25 13:48	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			08/04/25 12:33	08/05/25 13:48	1

Lab Sample ID: LCS 885-31506/2-A
Matrix: Solid
Analysis Batch: 31493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	22.3		mg/Kg		89	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	198		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-31506/1-A
Matrix: Solid
Analysis Batch: 31636

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31506

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/04/25 12:33	08/05/25 13:48	1
Ethylbenzene	ND		0.050	mg/Kg		08/04/25 12:33	08/05/25 13:48	1
Toluene	ND		0.050	mg/Kg		08/04/25 12:33	08/05/25 13:48	1
Xylenes, Total	ND		0.10	mg/Kg		08/04/25 12:33	08/05/25 13:48	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			08/04/25 12:33	08/05/25 13:48	1

Lab Sample ID: LCS 885-31506/3-A
Matrix: Solid
Analysis Batch: 31636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.829		mg/Kg		83	70 - 130
Ethylbenzene	1.00	0.885		mg/Kg		89	70 - 130
m&p-Xylene	2.00	1.88		mg/Kg		94	70 - 130
o-Xylene	1.00	0.904		mg/Kg		90	70 - 130
Toluene	1.00	0.874		mg/Kg		87	70 - 130
Xylenes, Total	3.00	2.79		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		15 - 150				

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 93

Job ID: 885-29969-1

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

Lab Sample ID: MB 885-31534/1-A
 Matrix: Solid
 Analysis Batch: 31574

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 31534

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/04/25 16:36	08/05/25 16:38	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/04/25 16:36	08/05/25 16:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	82		62 - 134			08/04/25 16:36	08/05/25 16:38	1

Lab Sample ID: LCS 885-31534/2-A
 Matrix: Solid
 Analysis Batch: 31574

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 31534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	40.5		mg/Kg		81	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	81		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-31560/1-A
 Matrix: Solid
 Analysis Batch: 31568

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 31560

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		08/05/25 07:31	08/05/25 09:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
Chloride	15.0		14.9	mg/Kg		99	90 - 110	

QC Association Summary

Client: Hilcorp Energy
 Project/Site: SJ 28-6 93

Job ID: 885-29969-1

GC VOA

Analysis Batch: 31493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29969-1	BH11 4-6	Total/NA	Solid	8015M/D	31506
885-29969-2	BH11 29-31	Total/NA	Solid	8015M/D	31506
MB 885-31506/1-A	Method Blank	Total/NA	Solid	8015M/D	31506
LCS 885-31506/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	31506

Prep Batch: 31506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29969-1	BH11 4-6	Total/NA	Solid	5030C	
885-29969-2	BH11 29-31	Total/NA	Solid	5030C	
MB 885-31506/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-31506/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-31506/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 31636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29969-1	BH11 4-6	Total/NA	Solid	8021B	31506
885-29969-2	BH11 29-31	Total/NA	Solid	8021B	31506
MB 885-31506/1-A	Method Blank	Total/NA	Solid	8021B	31506
LCS 885-31506/3-A	Lab Control Sample	Total/NA	Solid	8021B	31506

GC Semi VOA

Prep Batch: 31534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29969-1	BH11 4-6	Total/NA	Solid	SHAKE	
885-29969-2	BH11 29-31	Total/NA	Solid	SHAKE	
MB 885-31534/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-31534/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 31574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-31534/1-A	Method Blank	Total/NA	Solid	8015M/D	31534
LCS 885-31534/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	31534

Analysis Batch: 31792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29969-1	BH11 4-6	Total/NA	Solid	8015M/D	31534
885-29969-2	BH11 29-31	Total/NA	Solid	8015M/D	31534

HPLC/IC

Prep Batch: 31560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29969-1	BH11 4-6	Total/NA	Solid	300_Prep	
885-29969-2	BH11 29-31	Total/NA	Solid	300_Prep	
MB 885-31560/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-31560/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 31568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29969-1	BH11 4-6	Total/NA	Solid	300.0	31560
885-29969-2	BH11 29-31	Total/NA	Solid	300.0	31560

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QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 28-6 93

Job ID: 885-29969-1

HPLC/IC (Continued)

Analysis Batch: 31568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-31560/1-A	Method Blank	Total/NA	Solid	300.0	31560
LCS 885-31560/2-A	Lab Control Sample	Total/NA	Solid	300.0	31560

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: SJ 28-6 93

Job ID: 885-29969-1

Client Sample ID: BH11 4-6

Lab Sample ID: 885-29969-1

Date Collected: 07/29/25 10:10

Matrix: Solid

Date Received: 07/31/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			31506	KLS	EET ALB	08/04/25 12:33
Total/NA	Analysis	8015M/D		1	31493	AT	EET ALB	08/05/25 19:23
Total/NA	Prep	5030C			31506	KLS	EET ALB	08/04/25 12:33
Total/NA	Analysis	8021B		1	31636	AT	EET ALB	08/05/25 19:23
Total/NA	Prep	SHAKE			31534	BZR	EET ALB	08/04/25 16:37
Total/NA	Analysis	8015M/D		1	31792	EM	EET ALB	08/07/25 18:11
Total/NA	Prep	300_Prep			31560	RC	EET ALB	08/05/25 07:31
Total/NA	Analysis	300.0		20	31568	RC	EET ALB	08/05/25 12:42

Client Sample ID: BH11 29-31

Lab Sample ID: 885-29969-2

Date Collected: 07/29/25 10:30

Matrix: Solid

Date Received: 07/31/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			31506	KLS	EET ALB	08/04/25 12:33
Total/NA	Analysis	8015M/D		1	31493	AT	EET ALB	08/05/25 20:10
Total/NA	Prep	5030C			31506	KLS	EET ALB	08/04/25 12:33
Total/NA	Analysis	8021B		1	31636	AT	EET ALB	08/05/25 20:10
Total/NA	Prep	SHAKE			31534	BZR	EET ALB	08/04/25 16:37
Total/NA	Analysis	8015M/D		1	31792	EM	EET ALB	08/07/25 18:24
Total/NA	Prep	300_Prep			31560	RC	EET ALB	08/05/25 07:31
Total/NA	Analysis	300.0		20	31568	RC	EET ALB	08/05/25 12:53

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: SJ 28-6 93

Job ID: 885-29969-1

Laboratory: Eurofins Albuquerque

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

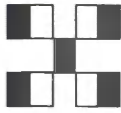
Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Chain-of-Custody Record

Client: Hilcorp
 Mailing Address: Kate Kaufman
 Phone #: _____
 email or Fax#: Krausmen@hilcorp.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 EDD (Type) _____

Turn-Around Time: 5 day Standard Rush
 Project Name: SJ 28-C 93
 Project #: _____
 Project Manager: S. Hyde - Ensolum
 Sampler: E. Carroll
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 2.3-6.2-2.1 (°C)
 Container Type and # 14oz Preservative Type cool HEAL No. _____
14oz cool _____




HALL ENVIRONMENTAL ANALYSIS LAB

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-29969 COC



Analysis Request	
BTEX / MTBE / TMB's (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	X
Cl, F, Br, NO₂, NO₃, PO₄, SO₄	X
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Received by: [Signature] Date: 7/30/25 Time: 1430
 Relinquished by: Eddie Carroll
 Received by: [Signature] Date: 7/30/25 Time: 1730
 Relinquished by: [Signature]
 Remarks: cc: ecarroll@ensolum.com

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.



Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-29969-1

Login Number: 29969

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque


Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	







APPENDIX E

Borehole Logs



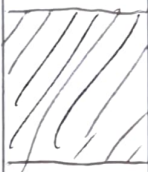
		Client: Hilcorp Project Name: Sant Juan 28-b Unit 93 Project Location: Rio Arriba Co., NM Project Manager: Wes Weichert			BORING LOG NUMBER B H 01 Project No.:			
Date Sampled: 4/21/25 Drilled By: Envirotech Driller: Ryan Begay Logged By: Tracy Dembrowski		Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:			Borehole Diameter: Casing Diameter: Well Materials: Surface Completion: Boring Method:			
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FIDPID READING (PPM)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
				Hits			Deep	Shallow
0						Light brown sand, fine to med grain, damp + color chy to brown + mostly fine grain. No s/o. well graded.		
1	100	3.9			SW-SM			
2				6				
3	80	5.2			4			
4								
5	80	9.5		1-2-2	SW-SM	Sandy + silty sand, brown, trace chys. Med to fine grain well graded. No s/o.		
6								
7	100	65		2-1-2-1	8			
8								
9	100	231.4		1-1-2	ML	Brown clayey silt. Low/minor odor.		
10								
11	100	>5000		2-2-3	SW	Light brown fine to med sand, trace odor.		
12								
13	100	>5000		2-2-3	SW-SM	STA but mud odor. light brown to brown fine silty sand.		Seal @ 10'
14	65	>5000		2-3-4	12	Strong odor. Sandy silt, brown, lightly bedded.		13'
15								
16	50	>5000		3-3-4	15			
17								
18	60	>5000		3-4-4	SW-SM	light brown fine silty sand strong odor. Trace clay from 16-16.5 ft. Dry very fine sand and strong odor.		
19								
20	70	>5000		3-4-4-5				
21								
22	85	>5000		4-5-3-2	21.9	21.9-22.0 ft: silty clay, non plastic, brown, strong odor.		
23								
24	100	>5000		2-3-4-4	22	Brown sandy silt. strong/very strong odor. Lightly bedded.		
25								
25	90	>5000		3-4-4-5	SW-SM			
						Next page →		

			Client: Hillcorp San Juan 28-6 Project Name: San Juan 30-6-41A Unit 93 Project Location: Project Manager: Stuart Hyde Wes Wickert			BORING LOG NUMBER BH01	
Date Sampled: 4/21/25 Drilled By: Driller: Logged By:			Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:			Borehole Diameter: Casing Diameter: Well Materials: Surface Completion: Boring Method:	
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25						0-24': silty very fine sand, light brown, strong odor, minor tan coarse sand to small gravel. Poorly sorted.	
26							
27		90	2241	7-11-9-7			
28							
29		65	>5000	4-7-8	SP		
30							
31		65	>5000	5-12-12			Seal 30.5
32							
33		100	937	10-13-12-13			32.5
34							
35		95	1381	5-8-9-10	SP SM 34 35	Sandy silt. Minor v fine sand. Mod odor. brown.	TDS 35
36						coarse light brown / tan poorly sorted sand, 45° contact angle, only slight odor.	
37		90	521.5	6-8-8-9	SP		
38							
39		90	>5000	6-6-6-6	38	Increasing to mod/strong odor. Coarse light brown / tan poorly sorted sand.	
40							
41		95	1445	4-5-8-9	SP		
42							
43		70	788	5-8-11-10			
44							
45		100-105%	273	5-6-9-8	SP	Green-grey brown coarse sand. Minor spots of greenish chloridic color staining. 44-44.5 orange coarse sand, maybe from top of hole? Ran PID on only grey.	
46							
47							
48						TDE 46'	
49							
50							

					Client: Hilcorp Project Name: San Juan 28-6 Unit 93 Project Location: Rio Arriba Co., NM Project Manager: Wes Weichert		BORING LOG NUMBER B402 Project No.:	
Date Sampled: 4/23/25 Drilled By: Envirotech Driller: Ryan Begay Logged By: Tracy Dembrowski					Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Borehole Diameter: Casing Diameter: Well Materials: Surface Completion: Boring Method:	
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
0						Hardpacked coins of brown silty very fine sand.		
1045		40	462.3	10-9-9-9				
2								
3		100	100.1	2-3-3-2		Brown very fine sand. NO staining or odor.		
4								
5		100	611.6	2-2-2-2				
6					5.5	Brown silty clay. NO S/O		
1053		100	243.5	3-3-4-3	6	Brown very fine sand. NO S/O		
8								
1056	X	65	>5000	2-2-3-5	9	Brown moist packed silt. Minor to mod HC odor.		
10								
11		95	>5000	2-2-3-5	10.5	Greybrown silty clay. Moist. Strong odor.		
12					11.5	Greybrown silt. Moist. Strong odor. Minor very fine sands mixed in. HC odor becoming much stronger w/ depth, like paint thinner.		
1104		85	>5000	2-3-3-3				
14								
1110		100	>5000	2-3-3-4	15	Greybrown fine sand. SAA odors: sour, paint thinner, color becoming browner w/ depth. Minor silty intervals.		
16								
17		100	>5000	2-1-2-2				
18								
1117	X	100	>5000	2-3-3-4				
19								
20								
1121		70	>5000	2-2-2-3				
21								
22								
1124		70	>5000	4-7-8-2	23	Dark brown silty sand, V strong paint thinner odor & staining.		
23								
24					24.3			
1131		95	>5000	3-4-4-5				
25								

10'
 15'
 Screen 15-25'

Next page →

		Client: Hilcorp Project Name: San Juan 28-b Project Location: San Juan 30-6 #31A Unit 93. Project Manager: Stuart Hyde Wes Weichert			BORING LOG NUMBER BHD2 Project No.:		
Date Sampled: 4/23/25 Drilled By: Driller: Logged By:		Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:			Borehole Diameter: Casing Diameter: Well Materials: Surface Completion: Boring Method:		
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO-METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25						From 24.3 ft. Light brown/tan med gr. sand, poorly sorted w/ interbedded fines and very coarse. Minor pebble liths of other rock, likely fluvial. Strong paint thinner odor. Dry. Unconsolidated.	 BOS 25'
1134		75	>5000	4-7-11-9			 27'
1137		85	>5000	6-9-9-12			
1145	X	85	>5000	9-12-13-13			30'
1210		100	>5000	13-21-17-18			
1219		90	>5000	5-9-10-9			
1223		90	>5000	10-10-9-10	36	Light brown tan fine grained sand, poorly sorted, unconsolidated, minor coarse grains & pebbles. Strong paint thinner odor. Dry. Minor silty areas.	
1230		70	>5000	8-9-9-10			
1237	X	100	>5000	4-7-6-8		42-44': minor/trace greenish Rock chips.	
1245		100	>5000	?			
1247		90	>5000	5-7-7-13	44.5	Greenish-grey brown medium to coarse sand w/ altered green + white rock chips. Mod odor, paint thinner.	
1336	NS	NS	NS	NS			
	NS	NS	NS	NS			
1345	X	50	>5000	3-2-4-2	51	Brown moist clay. Strong odor, minor brown FG sand. TDE 52'	
	X						

no photo



Client: Hilcorp
 Project Name: Sam Jean 28-6 #93
 Project Location: Rio Arriba County
 Project Manager: Stuart Hyde

BORING LOG NUMBER

BH02 Q

Date Sampled: 6/17/2025
 Drilled By: EnviroDrill
 Driller: Rodney Begay
 Logged By: ZM

Ground Surface Elevation:
 Top of Casing Elevation:
 North Coordinate:
 West Coordinate:

Project No.:
 Borehole Diameter: 8"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion:
 Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
1							
2							
3							
4	945				SM	Silty Sand loose, tan/brown, silt w/ fn-md sand dry. NS/NO	BENT
5	X	12-1	60%	31.3			
6							
7							
8							
9	950				SW-SM	Well Graded Sand w/ Silt loose, tan/brown, fn-md sand w/ silt dry. NS/NO	
10	X	2-3-3	25%	18.7			
11							
12							
13							
14	954				SW-SM	Well Graded Sand w/ Silt loose, grey/tan, fn-md sand w/ silt moist, NS/petroleum odor	
15	X	1-2-2	100%	15.11			
16							
17							
18							
19	959				SW	Well Graded Sand SM loose, grey/tan, v. fine-cs sand moist, NS/petroleum odor	
20	X	1-2-3	60%	3,408			
21							
22							
23							
24	1004				SW	Well Graded Sand loose, grey/tan, md-cs sand moist, NS/petroleum odor	
25	X	2-2-2	95%	3,370			



Client: Hilcorp
 Project Name: San Juan 28-6 #93
 Project Location: Rio Arriba, County
 Project Manager: Stuart Hyde

BORING LOG NUMBER
BK02 2
 Project No:

Date Sampled: 6/17/2025
 Drilled By: Envirodrill
 Driller: Rodney Begay
 Logged By: ZM

Ground Surface Elevation:
 Top of Casing Elevation:
 North Coordinate:
 West Coordinate:

Borehole Diameter: 8"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion:
 Boring Method: HSA


DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25	X						
26							
27							
28							
29	<u>1010</u>						
30	X	<u>4-6-11</u>	<u>90%</u>	<u>3340</u>	<u>SW-SM</u>	<u>Well graded Sand w/ silt - loose, tan, fn - v. coarse sand w/ silt, moist, NS petro odor</u>	
31							
32							
33							
34	<u>1016</u>						
35	X	<u>5-6-7</u>	<u>95%</u>	<u>2458</u>	<u>SW</u>	<u>Well graded sand - loose, tan, vf - #3 sand w/ rare gravel, NS/petro odor</u>	
36							
37							
38							
39	<u>1024</u>						
40	X	<u>3-5-2</u>	<u>70%</u>	<u>3436</u>	<u>SW</u>	<u>Well graded sand - loose, tan, f - c sand w/ some silt, moist, NS/petro odor</u>	
41							
42							
43							
44	<u>1030</u>						
45	X	<u>5-4-8</u>	<u>60%</u>	<u>2436</u>	<u>SW</u>	<u>Well graded sand - loose, tan, m - v #3 sand moist, #5/petro odor not enough for sample grey/dark grey staining</u>	
46							
47							
48							
49	<u>1035</u>						
50	X	<u>5-5-3</u>	<u>50%</u>	<u>2534</u>	<u>SW</u>	<u>Well graded sand - loose, tan, #2 - vc sand moist, staining (black) / petro odor</u>	

grout

2" bentonite

2" sand above screen


sample

	Client: Hilcorp Project Name: San Juan 28-6 #a3 Project Location: Rio Arriba County Project Manager: Stuart Hyde	BORING LOG NUMBER BH02 Q
	Date Sampled: 6/17/2025 Drilled By: EnviroDrill Driller: Rodney Begay Logged By: ZM	Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
50	X						
51							
52							
53							
54	1042		40%		SW	Well graded sand -loose, tan/brown, m-vc wet @ 55, NS/NO sand	
55		2-3-8	40%	26.5			
56							
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							

sample water ~~*~~

0913

	Client:	BORING LOG NUMBER BH03
	Project Name: Project Location: Project Manager:	
Date Sampled: 4/22/25 Drilled By: ENVIROTECH Driller: Ryan Begay Logged By: Tracy Dembrauski	Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:	Project No.:
		Borehole Diameter: Casing Diameter: Well Materials: Surface Completion: Boring Method:


DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO-METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
0923	0-1	65	16.7	4-4-43		light brown fine to med grain sand. No s/o	
	1-2						
	2-3	80	11.2	1-2-1		SAA but minor s/o. Minor bands of v fine silty sand, darker light brown.	
0930	3-5	100	2.2	1-2-2-1		SAA but trace / faint odor of acidity: minor clayey silt bands 3-4", are acid, alternating v fine silty sand. No hydrocarbon odor.	
	5-6	95	1.7	1-1-1-2			
	6-8						
	8-9	95	0.0	1-2-2-4	9'	@ 9ft: brown silty fine sand, minor hc odor. trace clays in very small 1-2" bands in upper section / interbedded.	
	9-10						
	10-11	100	16.0	1-2-4-2			
	11-12						
0937	12-13	100	8.2	3-3-4-4			
	13-14						
0940	14-15	90	2.6	1-1-2-2			
	15-16						
094B	16-17	65	5.0	4-4-5-5			
	17-18						
	18-19	100	10.4	3-4-4-4	19.5	light brown fine gr sand. Trace silts. white/bleached sands @ 20-20.5' Mod odor.	
	19-20						
0951	20-21	90	6.1	4-5-3-2			
	21-22				21.5	Brown non plastic silty clay. Very low odor.	
	22-23	100	0.0	2-5-6-8	23	Brown silty sand. Trace to no odor. Fine grained. Hint of	
	23-24						
1007	24-25	80	6.1	2-4-4-7			

3 samples
top
middle
bottom

BH03C 1' 0923
0-2'
BH03 @ 13 0937
12-14
BH03C 27' 1006
26-28

↑
no picture

microbial odor.

		Client: Hilcorp Project Name: San Jaun 30-6 #31A Project Location: Project Manager: Stuart Hyde				BORING LOG NUMBER Project No.:	
Date Sampled: Drilled By: Driller: Logged By:		Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:				Borehole Diameter: Casing Diameter: Well Materials: Surface Completion: Boring Method:	
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIAL-METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25							
26							
27	X	75	5.1	7-8-11-10		medium to coarse tan and light brown sand. Trace greyish green patches. Trace HC odor, also microbial odor.	
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

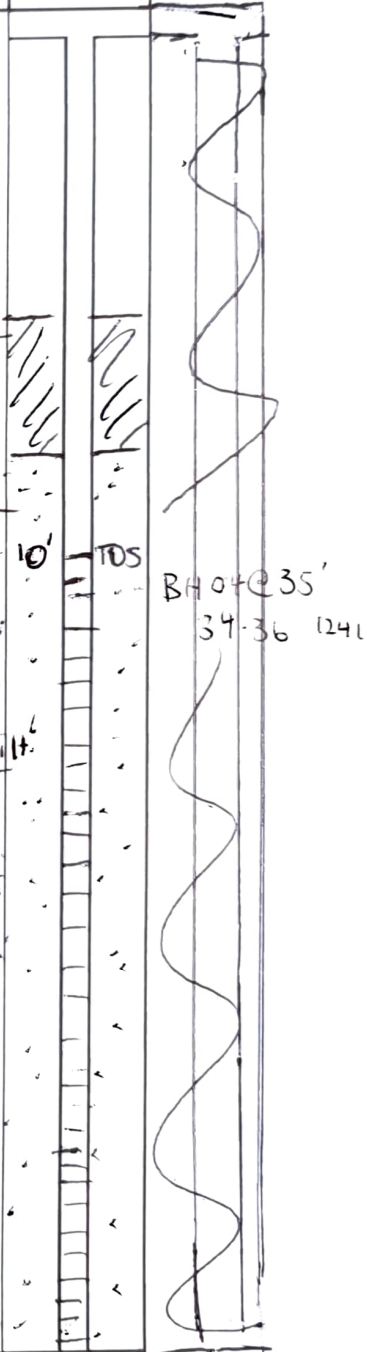
1006


BOS 30'
TOS 10'

	Client: Hilcorp Project Name: San Juan 28-6 #93 Project Location: Project Manager: Wes Weichert	BORING LOG NUMBER BH04
	Date Sampled: 4/22/25 Drilled By: Envirotech Driller: Ryan Bagay Logged By: Tracy Dembrowski	Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:

DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0						light brown and brown silty sand, v. fine grain. trace odor.	
1		85	6.7	5-6-6			
2							
3		160	10.2	2-2-4-6		light brown fine gr sand, no odor. Very faint microbial odor 4.5-5.5	
4							
5		90	10.9	2-4-2-1			
6							
7		85	137.7 396.9	2-4-2-3		light brown fine gr silty sand, no odor, *	
8							
9		85	>5000	1-2-3-4		strong odor clayey greyish dark brown silt. minor 3" sand from 10-10.3; trace carbon.	
10							
11		100	>5000	2-3-3-2		grey brown fine + med gr sand, strong odor, trace microbial odor. becoming finer w/ depth, increasing silt.	
12							
13		100	>5000	2-2-3-4			
14							
15		50	>5000	2-2-2-3		Brown silty sand. strong odor. slight sour odor.	
16							
17		80	>5000	2-2-2-4		light brown silty sand. strong odor, HC. fine sand mix. Trace rhizomes @ 17.9'	
18							
19		85	>5000	2-3-3-5		staining at 20.4-20.5'. odor like paint thinner.	
20							
21		80	>5000	2-5-6-4		light brown silty sand. mod odor, med grain w/ fine gr + silt mixed in. Dry.	
22							
23		100	>5000	2-4-3-4			
24							
25		100	3838	2-4-5-6		Brown fine gr sand, damp, low HC odor but mod microbial + mildew odor. Grain size var w/ med gr mixed in, minor coarse.	

1053
160
1108
1114
1117
1125
1133



					Client: Hilcorp Project Name: San Juan 30-6 #31A SJ 28-6 #93 Project Location: Project Manager: Stuart Hyde Wes Weichert		BORING LOG NUMBER BH04	
Date Sampled: 4/22/25 Drilled By: ENVIROTECH Driller: Ryan Begay Logged By: Tracy Dembrowski					Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Project No.: Borehole Diameter: Casing Diameter: Well Materials: Surface Completion: Boring Method:	
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/ID READING (PPM)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
1133	25	X				25		
	26	X				26		
1137	27	80	394.7	6-9-11	263	Tan & brown med-coarse grained sand w/ patches + liths of greenish grey ox'd rock. Rock is hydrothm altered/bleached, trace clay replacement.		
	28							
1230	29	95	>5000	4-9-8-7				
	30							
1234	31	85	834.4	5-9-7-6		light brown fine-med grn sand, minor coarse sand. Trace patches of white, trace odor.		
	32							
1238	33	100	643.9	5-6-7-6				32'
	34							
1241	35	95	711.8	4-6-6-6				35'
	36				36	TDC @ 36'		
	37							
	38							
	39							
	40							
	41							
	42							
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							

		Client: Hilcorp	BORING LOG NUMBER
Date Sampled: 6-16-25		Project Name: San Juan 28-6 #93	BHOS
Drilled By: Envirodrill		Project Location: Rio Arriba County	
Driller: Rodney Berger		Project Manager: Stuart Hyde	Project No.:
Logged By: ZM		Ground Surface Elevation:	Borehole Diameter: 8"
		Top of Casing Elevation:	Casing Diameter: 2"
		North Coordinate:	Well Materials: PVC
		West Coordinate:	Surface Completion:
			Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
1							
2							
3							
4	1220				SW-SM	Well graded sand w/ silt	
5	X	3-4-4	60%			-tan, fn-CS sand w/ silt	
6				28.1		NS-NO, dry, unconsolidated	
7							
8							
9	1238				SW-SM	Well graded sand w/ silt	
10	X	3-4-4	20%			-tan/brown, fn-mid sand/silt	
11				34.8		NS-NO, dry, unconsolidated	
12							
13							
14	1234				SM	Silty Sand	
15	X	1-2-2	40%			-brown, silt w/ fn sand	
16				4,348		NS, slight hydrocarbon odor	
17						dry	
18							
19	1242				SW-SM	Well graded sand w/ silt	
20	X	3-3-3	50%			-tan/brown, fn-CS sand w/ silt	
21				4,574		NS, slight hydrocarbon odor	
22						dry, unconsolidated	
23							
24	1247				SW-SM	Well graded sand w/ silt	
25	X	3-4-4	40%	4,495		-tan/brown, fn-CS sand w/ silt	
						NS, slight hydrocarbon odor	
						dry, unconsolidated	

Sample (hold)

Sample

Sample (hold)

Sample

Nested SVE

frag

3" bentonite

2" sand above screen

	Client: Hilcorp	BORING LOG NUMBER
	Project Name: San Juan 28-6 #93	BH05
	Project Location: Rio Arriba County	Project No.:
Project Manager: Stuart Hyde		
Date Sampled: 6-16-25	Ground Surface Elevation:	Borehole Diameter: 8"
Drilled By: EnviroDrill	Top of Casing Elevation:	Casing Diameter: 2"
Driller: Rodney Begay	North Coordinate:	Well Materials: PVC
Logged By: ZM	West Coordinate:	Surface Completion:
		Boring Method: ITSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25							
26							
27							
28							
29	1253				SN	Well graded sand -tan v. fine -cs sand	
30				4,486		NS, slight hydrocarbon odor	
31	5-10-11		90%	1384		dry, unconsolidated	
32							
33					SN	Well graded sand	
34	1302					-tan, v. fine -cs sand	
35						NS, hydrocarbon plug	
36	9-10-10		100%	4,154		dry, unconsolidated	
37							
38					SN-SM	Well graded sand w/ silt	
39	1310					-tan, v. fine -cs sand w/ silt	
40						NS, slight hydrocarbon odor	
41	5-9-10		90%	1,385		dry, unconsolidated	
42							
43					SN-SM	Well graded sand w/ silt	
44	1313					-tan, v. fine -cs sand w/ silt	
45						NS, slight hydrocarbon odor	
46	4-4-5		100%	969		dry, unconsolidated	
47							
48					SN-SS	well graded sand w/ clay	
49	1326					-tan, v. fine -md sand w/ silt	
50	4-3-4		90%	37.9		+ clay, hydrocarbon odor	

sample (hold)

sample

sample (hold)

sample

sample (hold)

2' bentonite plug
2' of sand above screen

bottom of interval



Client: Hilcorp
 Project Name: San Juan 28-6 #93
 Project Location: Rio Arriba County
 Project Manager: Stuart Hyde

BORING LOG NUMBER
 BH05
 Project No.:

Date Sampled: 6-16-25
 Drilled By: ZMA G.V. radn 4
 Driller: Rodney Began
 Logged By: ZMA

Ground Surface Elevation:
 Top of Casing Elevation:
 North Coordinate:
 West Coordinate:

Borehole Diameter: 8"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion:
 Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
50	X						
51							
52							
53							
54	1345				SN-SM	Well sorted sand w/ silt tan brown fine grained sand w/ silt MS - slight organic color, wet	
55		2-5-9	90%	10.1			
56	X						
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							

sample

water →

ZMA



Client: Hilcorp

Project Name: San Juan 28-6 #93

Project Location: Rio Arriba County

Project Manager: Stuart Hyde

BORING LOG NUMBER

BH06

Project No.:

Date Sampled: 6-18-25

Drilled By: EnviroDrill

Driller: Rodney Begay

Logged By: HP

Ground Surface Elevation:

Top of Casing Elevation:

North Coordinate:

West Coordinate:

Borehole Diameter: 8"

Casing Diameter: 2"

Well Materials: PVC

Surface Completion:

Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
1							
2							
3							
4	928	1-2-2	60%	56.4	SM	<u>Silty Sand</u> tan-brown, silt w/ fine sand moist, loose, NS/NO	
5							
6							
7							
8							
9	933	1-1	95%	27.8	SM	<u>Silty Sand</u> tan-brown, silt w/ fine sand, loose, moist NS/NO	
10							
11							
12							
13							
14	936	2-3-2	70%	11.9	SM	<u>Silty Sand</u> tan/brown, loose, silt w/ f-m sand, moist, NS/NO	
15							
16							
17							
18							
19	941	3-3-3	80%	23.4	SM	<u>Silty Sand</u> tan/brown, loose, silt w/ f-m sand, moist, NS/NO	
20							
21							
22							
23							
24	946	4-8-10	100%	28.7	SW-SM	<u>Well Graded Sand w/ Silt</u> tan, loose, f-vc sand, moist, NS/NO	
25							

sample

grass



Client: Hilcorp

Project Name: San Juan 28-6 #93

Project Location: Rio Arriba County

Project Manager: Stuart Hyde

BORING LOG NUMBER

B106

Project No.:

Date Sampled: 6/18/2025

Drilled By: EnviroDrill

Driller: Rodney Begay

Logged By: HP

Ground Surface Elevation:

Top of Casing Elevation:

North Coordinate:

West Coordinate:

Borehole Diameter: 8"

Casing Diameter: 2"

Well Materials: PVC


Surface Completion:

Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25	X						
26	X						
27						Well Graded Sand w/ Silt	<p>2" bentonite 2" sand above screen</p>
28						- loose, tan, f-vc sand, moist, NS/NO	
29	950				SW-SM		
30	X	8-8-7	70%	14.2			
31	X						
32						Well Graded Sand w/ Silt	
33						- loose, tan, f-vc sand w/ rare gravel, moist, NS/NO	
34	956				SW-SM		
35	X	7-11-12	80%	18.2			
36	X						
37						Well Graded Sand w/ Silt	
38						- loose, tan, f-vc sand, moist, NS/NO	
39	1062				SW-SM		
40	X	5-3-4	80%	14.4			
41	X						
42						Well Graded Sand w/ Silt	
43						- loose, tan, f-vc sand, moist, NS/mild petro odor	
44	1069				SW-SM		
45	X	7-8-9	100%	51.4			
46	X						
47						Well Graded Sand w/ Silt	
48						- loose, tan/grey, f-vc sand, moist, grey stain/mild petro odor	
49	1015	3-4-3	50%	15.1	SW-SM		
50	X						

sample

sample

	Client: Hilcorp Project Name: San Juan 28-6 #93 Project Location: Rio Arriba County Project Manager: Stuart Hyde	BORING LOG NUMBER BMO2 Project No.:
	Date Sampled: 6/18/2025 Drilled By: Enviro Drill Driller: Rodney Begay Logged By: HP	Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
50	X						
51							
52						Well Graded Sand w/Silt	
53							
54	1027				SW-SM	- loose, tan/brown, vf-c sand, wet @ 55, NS/NO	
55	X	3-4-5	100%	5.5			
56							
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							

Water sample 



Client: Hilcorp
 Project Name: SJ 286 # 93
 Project Location: Rio Arriba County
 Project Manager: Stuart Hyde

BORING LOG NUMBER

BH07

Project No:

Date Sampled: 6-18-25
 Drilled By: EnviroDrill
 Driller: Rodney Begay
 Logged By: HP

Ground Surface Elevation:
 Top of Casing Elevation:
 North Coordinate:
 West Coordinate:

Borehole Diameter: 8"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion:
 Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/ID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
1						<u>Silty Sand</u>	Grout
2						- loose, tan/brown, vf-m sand, moist, NS/NO	
3					SM		
4	1219	1-1-2					
5	X		90%	3.6			
6							
7						<u>Silty Sand</u>	Grout
8						- loose, tan, f-m sand, NS/NO	
9	1223				SM		
10	X	4-3-3	100%	10.3			
11							
12						<u>Silty Sand</u>	Grout
13						- somewhat compact ^{dense} , vf-f silt w/ little sand, moist NS/NO, tan	
14	1227				SM		
15	X	6-5-5	35%	6.2			
16							
17						<u>Silty Sand</u>	Grout
18						- loose, tan, vf-m sand w/ silt, moist, NS/NO	
19	1232				SM		
20	X	3-5-5	85%	5.2			
21							
22						<u>Well Graded Sand w/Silt</u>	Grout
23						- loose, tan, f-c sand, moist, NS/NO	
24	1236				SN-SM		
25	X	4-8-14	65%	10.9			



Client: Hilcorp
 Project Name: San Juan 28-6 #93
 Project Location: Rio Arriba County
 Project Manager: Stuart Hyde

BORING LOG NUMBER
BH07
 Project No.:

Date Sampled: 8-18-25
 Drilled By: Envirodrill
 Driller: Rodney Begay
 Logged By: HP

Ground Surface Elevation:
 Top of Casing Elevation:
 North Coordinate:
 West Coordinate:


Borehole Diameter: 8"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion:
 Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25	X						ground
26	X						
27						Well Graded Sand w/ Silt	
28							
29	1240				SW-SM	- loose, tan, f-vc sand w/ rare gravel, moist, NS/NO	
30	X	7-1-6	65%	10.1			
31	X						
32						Well Graded Sand w/ Silt	2" bentonite
33						- loose, tan, f-c sand, moist, NS/NO	
34	1247				SW-SM		2" sand above screen
35	X	4-6-6	85%	8.5			
36	X						
37						Well Graded Sand w/ Silt	
38						- loose, tan, f-vc sand, moist, NS/NO	
39	1253				SW-SM		
40	X	3-5-8	85%	3.7			
41	X						
42						Well Graded Sand w/ Silt	
43						- loose, tan/brown, f-vc sand, moist, NS/NO	
44	1302				SW-SM		
45	X	5-6-6	100%	5.5			
46	X						
47						Well Graded Sand w/ Silt	
48						- loose, tan/brown, f-vc sand, moist, grey stain/ slight petro odor	
49	1310				SW-SM		
50	X	4-6-8	90%	57.6			

sample

sample

DEPTH (FEET)		SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0								
1							Dark brown med sand	
2		4-6	1 1/2	100	13.8	SC	some clay cohesive moist	
3								
4								
5								
6								
7								
8							lt. brown/tan silty	
9		9-11	2 5/5	100	13.6	SM	sand moist non-cohesive	
10								
11								
12								
13							lt brown/tan silty sand	
14		14-16		100	7.6	SM	dry non-cohesive	
15								
16								
17								
18							lt brown fine sand	
19		19-21	5 5/6	100	114.1	SM	some silt dry	
20								
21								
22								
23							lt. gray brown coarse	
24		24-26		100	16.5	SP	sand some gravel dry	
25								

	Client: <i>HEC</i>	BORING LOG NUMBER
	Project Name: <i>SJ 28-6 #93</i>	<i>BH08</i>
	Project Location: <i>NM</i>	Project No.:
	Project Manager: <i>S. Hyde</i>	
Date Sampled: <i>6-19-25</i>	Ground Surface Elevation:	Borehole Diameter: <i>8"</i>
Drilled By: <i>Enviro Drill</i>	Top of Casing Elevation:	Casing Diameter: <i>2"</i>
Driller: <i>Rodney</i>	North Coordinate:	Well Materials: <i>PVC</i>
Logged By: <i>E. Carroll</i>	West Coordinate:	Surface Completion: <i>SOCK</i>
		Boring Method: <i>HSA</i>



Client: Hilcorp
 Project Name: San Juan 28-6 #93
 Project Location: Rio Arriba County
 Project Manager: Stuart Hyde

BORING LOG NUMBER

BH09

Project No.: ~~BH09~~

Date Sampled: 6/17/25
 Drilled By: Envirodrill
 Driller: Rodney Begay
 Logged By: Harper Peck

Ground Surface Elevation:
 Top of Casing Elevation:
 North Coordinate:
 West Coordinate:

Borehole Diameter: 8"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion:
 Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
1							
2						Well Graded Silty Sand	
3						- loose, tan/brown, vf-m sand, NS/NO	
4	1232				SM		
5	X	2-2-2	50%	16.5			
6							
7							
8						Silty Sand	
9	1236				SM	- loose, tan/brown, vf-m sand, moist, NS/NO	
10	X	1-2-2	60%	7.6			
11							
12						Silty Sand	
13						- loose, tan/brown, vf-m sand, moist, NS/NO	
14	1241				SM		
15	X	2-2-2	100%	11.2			
16							
17						Well Graded Sand w/ Silt	
18						- loose, tan, f-c sand, moist, NS/organic smell	
19	1245				SW		
20	X	2-4-3	85%	31.4	-SM		
21							
22						Well Graded Sand w/ Silt	
23					SW-SM	- loose, tan, f-c sand, slightly moist, NS/ petro smell slight	
24	1250						
25	X	3-3-5	65%	12.8			

ground

2" bentonite
 2" sand above screen

sample

sample



Client: Hilcorp
 Project Name: San Juan 28-6 #93
 Project Location: Rio Arriba County
 Project Manager: Stuart Hyde

BORING LOG NUMBER

BH09

Date Sampled: 6/17/25
 Drilled By: Envirodrill
 Driller: Rodney Begay
 Logged By: HP

Ground Surface Elevation:
 Top of Casing Elevation:
 North Coordinate:
 West Coordinate:

Project No.:
 Borehole Diameter: 8"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion:
 Boring Method: HSA

sample

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25	X						
26	X						
27						Silty Sand w/Gravel - loose, tan/brown, F-vc sand w/ small gravel NS/NO	backfill to 25' zm
28							
29	255	6-79	80%		GM		
30	X						
31			80%	3.8			
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							



Client: Hilcorp
 Project Name: San Juan 28-6 #93
 Project Location: Rio, Arriba, NM
 Project Manager: Stuart Hyde

BORING LOG NUMBER

BH10

Project No.:

Date Sampled: 6-17-25
 Drilled By: Envirodrill
 Driller: Rodney Begay
 Logged By: Harper Peck

Ground Surface Elevation:
 Top of Casing Elevation:
 North Coordinate:
 West Coordinate:

Borehole Diameter: 8"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion:
 Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
1							
2							
3					SM	<u>Silty Sand</u> - loose, light tan, vf-m sand w/ silt, NS/NO	
4	1414						
5	X	1-1-1	50%	8.6			
6							
7							
8							
9	1418				SM	<u>Silty Sand</u> - loose, light tan, vf-m sand w/ silt, NS/NO	
10	X	3-5-5	100%	1.7			
11							
12							
13							
14	1421				SM	<u>Silty Sand</u> - loose, light tan, vf-m sand w/ silt, moist, NS/NO	
15	X	3-2-3	100%	2.9			
16							
17							
18							
19	1425				SM	<u>Silty Sand</u> - loose, light tan, vf-c sand w/ silt, NS/NO	
20	X	4-4-7	100%	1.5			
21							
22							
23					SW-SM	<u>Well Graded Sand w/ silt</u> - loose, tan, f-vc sands slightly moist, NS/NO	
24	1430						
25	X	6-10-9	100%				

Sample

grout

backfill of 2m

2" benton
2" sand above screen



Client: Hilcorp
Project Name: San Juan 28-6 #93
Project Location: Rio Arriba County
Project Manager: Stuart Hyde

BORING LOG NUMBER
BH 10

Date Sampled: 6-17-25
Drilled By: EnviroDrill
Driller: Rodney Begay
Logged By: HP

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:


Project No.:
Borehole Diameter: 8"
Casing Diameter: 2"
Well Materials: PVC
Surface Completion:
Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FD/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25	X						
26							
27							
28							
29	1435				SW-SM	Well Graded Sand w/ Silt - loose, tan, f-vc sand, NS/NO	
30	X	1-5-6	60%	1.1			
31							
32							
33							
34	1441				SW-SM	Well Graded Sand w/ Silt - loose, tan, vc-c sand, NS/NO, moist	
35	X	10-10-9	100%	1.3			
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							


sample HP

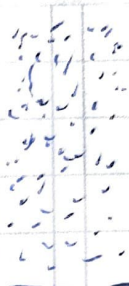
sample

backfillal
Zer

	Client: HEC	BORING LOG NUMBER BH 11
	Project Name: SJ 28-6 93	
	Project Location: NM	Project No.:
	Project Manager: S. Hyde	
Date Sampled: 7-29-25	Ground Surface Elevation:	Borehole Diameter: 8"
Drilled By: Enviro Drill	Top of Casing Elevation:	Casing Diameter: 2"
Driller: Rodney	North Coordinate:	Well Materials: pvc
Logged By: E. Carroll	West Coordinate:	Surface Completion:
		Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0							
1						Dry dark red brown	
2					SM	silty sand no s/c	
3							
4	4-6		40%	5.0			
5							
6							
7							
8							
9	9-11		80%	1.6	SM	SA4 NO S/O	
10							
11							
12							XX
13							XX
14							XX
15	14-16	3/4/5	40%	2.0	SM	Dry red brown ^{fine} sand Some silt	
16							
17							
18							
19							
20	19-21	5/7/6	60%	2.4	SP/SM	Dry red brown coarse sand few silt	
21							
22							
23							
24	24-26	3/4/9	80%	3.6	SP	Dry red brown med-coarse sand trace silt	
25							

	Client:	BORING LOG NUMBER
	Project Name:	
	Project Location:	
	Project Manager:	Project No.:
Date Sampled:	Ground Surface Elevation:	Borehole Diameter:
Drilled By:	Top of Casing Elevation:	Casing Diameter:
Driller:	North Coordinate:	Well Materials:
Logged By:	West Coordinate:	Surface Completion:
		Boring Method:

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PTD READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25							
26							
27							
28							
29	29-31	12/10/16	80%	2.9	SP	Dry red brown coarse sand so trace silt, trace gravel	
30							
31							
32						TD 30'	
33						Screen 25-15	
34						Sand 30' - 13	
35						Plug 13 - 11	
36						Grout 11 - Surface	
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							



APPENDIX F
ROI Calculations

SOIL VAPOR EXTRACTION SYSTEM PILOT TEST DATA

SAN JUAN 28-6 UNIT 93
 SAN JUAN COUNTY, NEW MEXICO
 HILCORP ENERGY COMPANY

Date : 6/9/2025									
Extraction Test Well									
BH01S									
Pilot Test Extraction Well								Observation Wells	
Time	Wellhead Vacuum (in. wc)	Wellhead Vacuum (psi)	Well Velocity (fpm)	Vapor Temp* (F)	Well Flow (acfm)	Well Flow (scfm)	PID at Stack (ppm)	BH02	BH04
								Distance From Test Well (feet)	
								24	24.75
Vacuum (in. wc)									
10:30	--	--	--	--	--	--	2588	--	--
11:00	10.2	0.4	1,940	77.2	42.3	37.9	--	0.2	0.2
11:15	10.3	0.4	1,827	77.0	39.9	35.7	3063	0.3	0.3
11:25	10.3	0.4	2,014	77.6	43.9	39.4	2985	0.4	0.3
11:30	23.9	0.9	3,455	71.7	75.4	65.9	2854	0.6	0.6
11:35	24.8	0.9	3,645	71.8	79.5	69.4	3038	1.0	0.9
11:40	25.7	0.9	3,483	71.3	76.0	66.2	2781	1.1	1.0
11:45	25.2	0.9	3,477	71.3	75.9	66.2	2900	1.0	1.0
11:55	42.5	1.5	5,604	70.0	122.3	102.1	2698	1.4	1.3
12:00	43.0	1.6	5,985	70.4	130.6	108.8	2083	1.5	1.5
12:05	43.6	1.6	5,994	69.7	130.8	108.9	2305	1.7	1.6
12:15*	57.3	2.1	6,070	69.7	132.4	106.1	2408	2.0	1.8
12:20*	58.7	2.1	8,396	69.7	183.2	146.2	2390	2.1	1.9
12:25*	58.3	2.1	8,723	69.7	190.3	152.1	2451	2.1	2.0
12:35	36.2	1.3	5,066	68.9	110.5	94.1	2540	1.7	1.5

Notes:

- ND - not detected
- in. wc - inches of water column
- ppm - parts per million
- PID - photoionization detector
- fpm - feet per minute
- acfm - actual cubic feet per minute
- NM - not measured
- OL - Overload
- * Temperature estimated due to thermal anemometer overload - pitot tube readings used to calculate velocity/flow

SOIL VAPOR EXTRACTION SYSTEM PILOT TEST DATA

SAN JUAN 28-6 UNIT 93
 SAN JUAN COUNTY, NEW MEXICO
 HILCORP ENERGY COMPANY

Date : 6/9/2025									
Extraction Test Well									
BH01D									
Pilot Test Extraction Well								Observation Wells	
Time	Wellhead Vacuum (in. wc)	Wellhead Vacuum (psi)	Well Velocity (fpm)	Vapor Temp* (F)	Well Flow (acfm)	Well Flow (scfm)	PID at Stack (ppm)	BH02	BH04
								Distance From Test Well (feet)	
								24	24.75
								Vacuum (in. wc)	
12:40	--	--	--	--	--	--	--	0.0	0.0
12:50	15.3	0.6	3,850	67.8	84.0	75.7	--	0.5	0.4
12:55	15.7	0.6	3,923	67.2	85.6	77.1	2374	0.6	0.6
13:00	15.8	0.6	3,782	67.5	82.5	74.3	2186	0.6	0.6
13:10	29.1	1.1	6,085	64.6	132.8	116.1	2310	1.2	1.1
13:15	29.3	1.1	5,948	64.3	129.8	113.5	2155	1.2	1.2
13:20	29.2	1.1	6,090	64.5	132.9	116.2	2068	1.3	1.2
13:30*	45.6	1.6	10,057	64.5	219.4	183.5	2036	1.7	1.6
13:35*	45.8	1.7	9,796	64.5	213.7	178.6	1630	1.8	1.7
13:40*	47.0	1.7	9,700	64.5	211.6	176.3	1661	1.8	1.8
13:55*	56.0	2.0	10,926	64.5	238.4	193.6	1602	2.1	2.0
14:00*	56.1	2.0	11,230	64.5	245.0	199.0	1285	2.2	2.0
14:10*	35.9	1.3	7,906	64.5	172.5	148.1	2390	1.9	1.8

Notes:

- ND - not detected
- in. wc - inches of water column
- ppm - parts per million
- PID - photoionization detector
- fpm - feet per minute
- acfm - actual cubic feet per minute
- NM - not measured
- OL - Overload
- * Temperature estimated due to thermal anemometer overload - pitot tube readings used to calculate velocity/flow

SOIL VAPOR EXTRACTION SYSTEM PILOT TEST DATA

SAN JUAN 28-6 UNIT 93
 SAN JUAN COUNTY, NEW MEXICO
 HILCORP ENERGY COMPANY

Date : 6/10/2025										
Extraction Test Well										
BH04										
Pilot Test Extraction Well								Observation Wells		
Time	Wellhead Vacuum (in. wc)	Wellhead Vacuum (psi)	Well Velocity (fpm)	Vapor Temp* (F)	Well Flow (acfm)	Well Flow (scfm)	PID at Stack (ppm)	BH01S	BH01D	BH02
								Distance From Test Well (feet)		
								24.75	24.75	41
								Vacuum (in. wc)		
9:20	--	--	--	--	--	--	6.2	0.0	0.0	0.0
10:10	12.5	0.5	2,160	71.6	47.1	42.4	664	0.53	0.36	0.25
10:20	7.6	0.3	2,088	72.4	45.6	41.5	1048	0.54	0.38	0.27
10:30	7.1	0.3	1,996	70.3	43.5	39.9	936	0.56	0.39	0.30
10:35	11.5	0.4	2,983	69.0	65.1	59.1	571	0.81	0.56	0.41
10:45	25.1	0.9	5,053	65.8	110.2	97.2	126	1.64	1.22	0.90
10:55	24.2	0.9	4,987	65.9	108.8	96.1	93	1.65	1.21	0.90
11:25	24.0	0.9	5,188	66.8	113.2	99.9	3405	1.61	1.15	0.85
11:35	23.7	0.9	5,164	67.0	112.7	99.5	3277	1.58	1.15	0.86
11:40*	41.1	1.5	10,191	67.0	222.3	187.4	3392	2.27	1.64	1.21
11:45*	43.3	1.6	10,246	67.0	223.5	187.3	3243	2.38	1.71	1.27
11:50*	44.0	1.6	10,361	67.0	226.0	189.0	3230	2.46	1.78	1.31
12:00*	44.3	1.6	10,369	67.0	226.2	189.0	3183	2.52	1.87	1.36
12:05*	47.4	1.7	10,913	67.0	238.1	197.2	3044	2.56	1.89	1.37
12:10*	36.0	1.3	8,679	67.0	189.3	161.8	3155	2.35	1.73	1.18

Notes:
 ND - not detected
 in. wc - inches of water column
 ppm - parts per million
 PID - photoionization detector
 fpm - feet per minute
 acfm - actual cubic feet per minute
 NM - not measured
 OL - Overload
 * Temperature estimated due to thermal anemometer overload - pitot tube readings used to calculate velocity/flow

SOIL VAPOR EXTRACTION SYSTEM PILOT TEST DATA

SAN JUAN 28-6 UNIT 93
 SAN JUAN COUNTY, NEW MEXICO
 HILCORP ENERGY COMPANY

Date : 6/10/2025										
Extraction Test Well										
BH02										
Pilot Test Extraction Well								Observation Wells		
Time	Wellhead Vacuum (in. wc)	Wellhead Vacuum (psi)	Well Velocity (fpm)	Vapor Temp* (F)	Well Flow (acfm)	Well Flow (scfm)	PID at Stack (ppm)	BH01S	BH01D	BH04
								Distance From Test Well (feet)		
								24.75	24.75	41
								Vacuum (in. wc)		
12:40	--	--	--	--	--	--	0	0.0	0.0	0.0
12:45	9.4	0.3	2,240	73.7	48.9	44.2	2495	0.38	0.19	0.08
12:50	8.5	0.3	2,077	73.5	45.3	41.1	2478	0.40	0.21	0.08
12:55	9.3	0.3	2,348	72.5	51.2	46.4	2501	0.41	0.20	0.08
13:05	10.9	0.4	2,659	71.9	58.0	52.4	2559	0.59	0.37	0.12
13:10	21.8	0.8	4,377	69.0	95.5	84.4	2466	1.07	0.70	0.45
13:15	23.0	0.8	4,494	68.9	98.0	86.4	2268	1.28	0.91	0.59
13:20	23.3	0.8	4,423	68.5	96.5	85.0	2378	1.37	0.98	0.65
13:25	22.9	0.8	4,526	69.3	98.7	87.0	2395	1.39	1.01	0.67
13:30*	48.5	1.8	10,429	69.3	227.5	187.1	2198	2.47	1.82	1.22
13:35*	50.0	1.8	10,597	69.3	231.2	189.3	2262	2.49	1.86	1.24
13:40*	49.4	1.8	10,582	69.3	230.9	189.3	2207	2.46	1.83	1.21
13:45*	35.6	1.3	10,582	69.3	230.9	196.6	2331	2.01	1.53	1.04

Notes:
 ND - not detected
 in. wc - inches of water column
 ppm - parts per million
 PID - photoionization detector
 fpm - feet per minute
 acfm - actual cubic feet per minute
 NM - not measured
 OL - Overload
 * Temperature estimated due to thermal anemometer overload - pitot tube readings used to calculate velocity/flow

RADIUS OF EFFECT CALCULATIONS - BH01S

**SAN JUAN 28-6 UNIT 93
SAN JUAN COUNTY, NEW MEXICO HILCORP
ENERGY COMPANY**

<u>Site Specific Information</u>		
Test Well	BH01S	
SVE Screen Length (H)	15	ft
Soil Type	sand	
Porosity (n)	30%	percent
<u>Test Specific Information</u>		
Radius of Influence (ROI)	35	feet
Flow Rate	66.2	SCFM
Wellhead Vacuum	25.7	IWC
<u>Calculations (Flowrate - 45 SCFM)</u>		
Total Volume (ft ³)	57,727	= PI * ROI * ROI * H
Volume Pore Space (ft ³)	17,318	= Total Volume * n
Pore Volume Exchange Rate	0.18	days
Annual Pore Volume Exchanges	2,009	>500 recommended
Velocity at ROI (ft/min)	0.067	= Flow rate/(2*PI * ROI * H * n)
Velocity at ROI (ft/day)	96	> 3 ft/day recommended
<u>Conclusions</u>		
<p>A conservative ROI and ROE can be at least 35 feet for a flow rate of 66.2scfm. The radius of effect (ROE) was evaluated using annual pore volume exchange rate and subsurface air velocity.</p>		

Notes:

- ft - feet
- ROI - radius of influence
- IWC - inches water column
- min - minute
- s - second
- SCFM - standard cubic feet per minute

RADIUS OF EFFECT CALCULATIONS - BH01D

**SAN JUAN 28-6 UNIT 93
SAN JUAN COUNTY, NEW MEXICO HILCORP
ENERGY COMPANY**

<u>Site Specific Information</u>		
Test Well	BH01D	
SVE Screen Length (H)	10	ft
Soil Type	sand	
Porosity (n)	30%	percent
<u>Test Specific Information</u>		
Radius of Influence (ROI)	35	feet - 0.9 IWC observed in at a distances of 27 ft
Flow Rate (1)	113.5	SCFM
Wellhead Vacuum (1)	29.3	IWC
<u>Calculations (Flowrate - 45 SCFM)</u>		
Total Volume (ft ³)	38,485	= PI * ROI * ROI * H
Volume Pore Space (ft ³)	11,545	= Total Volume * n
Pore Volume Exchange Rate	0.07	days
Annual Pore Volume Exchanges	5,167	>500 recommended
Velocity at ROI (ft/min)	0.172	= Flow rate/(2*PI * ROI * H * n)
Velocity at ROI (ft/day)	248	> 3 ft/day recommended
<u>Conclusions</u>		
A conservative ROI and ROE can be at least 35 feet for a flow rate of 113.5 scfm. The radius of effect (ROE) was evaluated using annual pore volume exchange rate and subsurface air velocity.		

Notes:

- ft - feet
- ROI - radius of influence
- IWC - inches water column
- min - minute
- s - second
- SCFM - standard cubic feet per minute

RADIUS OF EFFECT CALCULATIONS - BH04

**SAN JUAN 28-6 UNIT 93
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY**

<u>Site Specific Information</u>		
Test Well	BH04	
SVE Screen Length (H)	20	ft
Soil Type	sand	
Porosity (n)	30%	percent
<u>Test Specific Information</u>		
Radius of Influence (ROI)	52	feet - 0.9 IWC observed in at a distances of 27 ft
Flow Rate (1)	97.2	SCFM
Wellhead Vacuum (1)	25.1	IWC
<u>Calculations (Flowrate - 45 SCFM)</u>		
Total Volume (ft ³)	169,897	= PI * ROI * ROI * H
Volume Pore Space (ft ³)	50,969	= Total Volume * n
Pore Volume Exchange Rate	0.36	days
Annual Pore Volume Exchanges	1,002	>500 recommended
Velocity at ROI (ft/min)	0.050	= Flow rate/(2*PI * ROI * H * n)
Velocity at ROI (ft/day)	71	> 3 ft/day recommended
<u>Conclusions</u>		
A conservative ROI and ROE can be at least 52 feet for a flow rate of 97.2 scfm. The radius of effect (ROE) was evaluated using annual pore volume exchange rate and subsurface air velocity.		

Notes:

- ft - feet
- ROI - radius of influence
- IWC - inches water column
- min - minute
- s - second
- SCFM - standard cubic feet per minute

RADIUS OF EFFECT CALCULATIONS - BH02

**SAN JUAN 28-6 UNIT 93
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY**

<u>Site Specific Information</u>		
Test Well	BH02	
SVE Screen Length (H)	10	ft
Soil Type	sand	
Porosity (n)	30%	percent
<u>Test Specific Information</u>		
Radius of Influence (ROI)	50	feet - 0.9 IWC observed in at a distances of 27 ft
Flow Rate (1)	85	SCFM
Wellhead Vacuum (1)	23.3	IWC
<u>Calculations (Flowrate - 45 SCFM)</u>		
Total Volume (ft ³)	78,540	= $\pi * ROI * ROI * H$
Volume Pore Space (ft ³)	23,562	= Total Volume * n
Pore Volume Exchange Rate	0.19	days
Annual Pore Volume Exchanges	1,896	>500 recommended
Velocity at ROI (ft/min)	0.090	= $Flow\ rate / (2 * \pi * ROI * H * n)$
Velocity at ROI (ft/day)	130	> 3 ft/day recommended
<u>Conclusions</u>		
<p>A conservative ROI and ROE can be at least 50 feet for a flow rate of 85 scfm. The radius of effect (ROE) was evaluated using annual pore volume exchange rate and subsurface air velocity.</p>		

Notes:

- ft - feet
- ROI - radius of influence
- IWC - inches water column
- min - minute
- s - second
- SCFM - standard cubic feet per minute



APPENDIX G

Air Laboratory Analytical Reports



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 6/13/2025 1:38:31 PM

JOB DESCRIPTION

SJ 28-6 #93

JOB NUMBER

885-26522-1

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

Client: Hilcorp Energy
Project/Site: SJ 28-6 #93

Laboratory Job ID: 885-26522-1



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	14
QC Association Summary	17
Lab Chronicle	18
Certification Summary	19
Chain of Custody	22
Receipt Checklists	23

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
S1+	Surrogate recovery exceeds control limits, high biased.

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
Project: SJ 28-6 #93

Job ID: 885-26522-1

Job ID: 885-26522-1

Eurofins Albuquerque

Job Narrative 885-26522-1

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 6/11/2025 7:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The following sample(s) was activated for 8260 analysis by the client on 6/11/25. This analysis was not originally requested on the chain-of-custody (COC).

GC/MS VOA

Method 8260B: Surrogate recovery for the following samples were outside control limits: Pilot BH 04 (885-26522-3) and Pilot BH 02 (885-26522-4). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

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

Gasoline Range Organics

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: Pilot BH 04 (885-26522-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Client Sample ID: Pilot BH 01-S

Lab Sample ID: 885-26522-1

Date Collected: 06/09/25 12:35

Matrix: Air

Date Received: 06/11/25 07:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			06/12/25 10:55	10
1,1,1-Trichloroethane	ND		1.0	ug/L			06/12/25 10:55	10
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			06/12/25 10:55	10
1,1,2-Trichloroethane	ND		1.0	ug/L			06/12/25 10:55	10
1,1-Dichloroethane	ND		1.0	ug/L			06/12/25 10:55	10
1,1-Dichloroethene	ND		1.0	ug/L			06/12/25 10:55	10
1,1-Dichloropropene	ND		1.0	ug/L			06/12/25 10:55	10
1,2,3-Trichlorobenzene	ND		1.0	ug/L			06/12/25 10:55	10
1,2,3-Trichloropropane	ND		2.0	ug/L			06/12/25 10:55	10
1,2,4-Trichlorobenzene	ND		1.0	ug/L			06/12/25 10:55	10
1,2,4-Trimethylbenzene	2.9		1.0	ug/L			06/12/25 10:55	10
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			06/12/25 10:55	10
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			06/12/25 10:55	10
1,2-Dichlorobenzene	ND		1.0	ug/L			06/12/25 10:55	10
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			06/12/25 10:55	10
1,2-Dichloropropane	ND		1.0	ug/L			06/12/25 10:55	10
1,3,5-Trimethylbenzene	3.8		1.0	ug/L			06/12/25 10:55	10
1,3-Dichlorobenzene	ND		1.0	ug/L			06/12/25 10:55	10
1,3-Dichloropropane	ND		1.0	ug/L			06/12/25 10:55	10
1,4-Dichlorobenzene	ND		1.0	ug/L			06/12/25 10:55	10
1-Methylnaphthalene	ND		4.0	ug/L			06/12/25 10:55	10
2,2-Dichloropropane	ND		2.0	ug/L			06/12/25 10:55	10
2-Butanone	ND		10	ug/L			06/12/25 10:55	10
2-Chlorotoluene	ND		1.0	ug/L			06/12/25 10:55	10
2-Hexanone	ND		10	ug/L			06/12/25 10:55	10
2-Methylnaphthalene	ND		4.0	ug/L			06/12/25 10:55	10
4-Chlorotoluene	ND		1.0	ug/L			06/12/25 10:55	10
4-Isopropyltoluene	ND		1.0	ug/L			06/12/25 10:55	10
4-Methyl-2-pentanone	ND		10	ug/L			06/12/25 10:55	10
Acetone	ND		10	ug/L			06/12/25 10:55	10
Benzene	24		1.0	ug/L			06/12/25 10:55	10
Bromobenzene	ND		1.0	ug/L			06/12/25 10:55	10
Bromodichloromethane	ND		1.0	ug/L			06/12/25 10:55	10
Dibromochloromethane	ND		1.0	ug/L			06/12/25 10:55	10
Bromoform	ND		1.0	ug/L			06/12/25 10:55	10
Bromomethane	ND		3.0	ug/L			06/12/25 10:55	10
Carbon disulfide	ND		10	ug/L			06/12/25 10:55	10
Carbon tetrachloride	ND		1.0	ug/L			06/12/25 10:55	10
Chlorobenzene	ND		1.0	ug/L			06/12/25 10:55	10
Chloroethane	ND		2.0	ug/L			06/12/25 10:55	10
Chloroform	ND		1.0	ug/L			06/12/25 10:55	10
Chloromethane	ND		3.0	ug/L			06/12/25 10:55	10
cis-1,2-Dichloroethene	ND		1.0	ug/L			06/12/25 10:55	10
cis-1,3-Dichloropropene	ND		1.0	ug/L			06/12/25 10:55	10
Dibromomethane	ND		1.0	ug/L			06/12/25 10:55	10
Dichlorodifluoromethane	ND		1.0	ug/L			06/12/25 10:55	10
Ethylbenzene	18		1.0	ug/L			06/12/25 10:55	10
Hexachlorobutadiene	ND		1.0	ug/L			06/12/25 10:55	10

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Client Sample ID: Pilot BH 01-S

Lab Sample ID: 885-26522-1

Date Collected: 06/09/25 12:35

Matrix: Air

Date Received: 06/11/25 07:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.3		1.0	ug/L			06/12/25 10:55	10
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			06/12/25 10:55	10
Methylene Chloride	ND		3.0	ug/L			06/12/25 10:55	10
n-Butylbenzene	ND		3.0	ug/L			06/12/25 10:55	10
N-Propylbenzene	ND		1.0	ug/L			06/12/25 10:55	10
Naphthalene	ND		2.0	ug/L			06/12/25 10:55	10
sec-Butylbenzene	ND		1.0	ug/L			06/12/25 10:55	10
Styrene	ND		1.0	ug/L			06/12/25 10:55	10
tert-Butylbenzene	ND		1.0	ug/L			06/12/25 10:55	10
Tetrachloroethene (PCE)	ND		1.0	ug/L			06/12/25 10:55	10
Toluene	500		10	ug/L			06/12/25 13:44	100
trans-1,2-Dichloroethene	ND		1.0	ug/L			06/12/25 10:55	10
trans-1,3-Dichloropropene	ND		1.0	ug/L			06/12/25 10:55	10
Trichloroethene (TCE)	ND		1.0	ug/L			06/12/25 10:55	10
Trichlorofluoromethane	ND		1.0	ug/L			06/12/25 10:55	10
Vinyl chloride	ND		1.0	ug/L			06/12/25 10:55	10
Xylenes, Total	140		15	ug/L			06/12/25 13:44	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 130		06/12/25 10:55	10
Toluene-d8 (Surr)	127		70 - 130		06/12/25 10:55	10
Toluene-d8 (Surr)	92		70 - 130		06/12/25 13:44	100
4-Bromofluorobenzene (Surr)	101		70 - 130		06/12/25 10:55	10
Dibromofluoromethane (Surr)	118		70 - 130		06/12/25 10:55	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	40000		250	ug/L			06/12/25 13:32	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134		15 - 150		06/12/25 13:32	50

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Client Sample ID: Pilot BH 01-D

Lab Sample ID: 885-26522-2

Date Collected: 06/09/25 14:10

Matrix: Air

Date Received: 06/11/25 07:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			06/12/25 11:23	10
1,1,1-Trichloroethane	ND		1.0	ug/L			06/12/25 11:23	10
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			06/12/25 11:23	10
1,1,2-Trichloroethane	ND		1.0	ug/L			06/12/25 11:23	10
1,1-Dichloroethane	ND		1.0	ug/L			06/12/25 11:23	10
1,1-Dichloroethene	ND		1.0	ug/L			06/12/25 11:23	10
1,1-Dichloropropene	ND		1.0	ug/L			06/12/25 11:23	10
1,2,3-Trichlorobenzene	ND		1.0	ug/L			06/12/25 11:23	10
1,2,3-Trichloropropane	ND		2.0	ug/L			06/12/25 11:23	10
1,2,4-Trichlorobenzene	ND		1.0	ug/L			06/12/25 11:23	10
1,2,4-Trimethylbenzene	1.2		1.0	ug/L			06/12/25 11:23	10
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			06/12/25 11:23	10
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			06/12/25 11:23	10
1,2-Dichlorobenzene	ND		1.0	ug/L			06/12/25 11:23	10
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			06/12/25 11:23	10
1,2-Dichloropropane	ND		1.0	ug/L			06/12/25 11:23	10
1,3,5-Trimethylbenzene	1.8		1.0	ug/L			06/12/25 11:23	10
1,3-Dichlorobenzene	ND		1.0	ug/L			06/12/25 11:23	10
1,3-Dichloropropane	ND		1.0	ug/L			06/12/25 11:23	10
1,4-Dichlorobenzene	ND		1.0	ug/L			06/12/25 11:23	10
1-Methylnaphthalene	ND		4.0	ug/L			06/12/25 11:23	10
2,2-Dichloropropane	ND		2.0	ug/L			06/12/25 11:23	10
2-Butanone	ND		10	ug/L			06/12/25 11:23	10
2-Chlorotoluene	ND		1.0	ug/L			06/12/25 11:23	10
2-Hexanone	ND		10	ug/L			06/12/25 11:23	10
2-Methylnaphthalene	ND		4.0	ug/L			06/12/25 11:23	10
4-Chlorotoluene	ND		1.0	ug/L			06/12/25 11:23	10
4-Isopropyltoluene	ND		1.0	ug/L			06/12/25 11:23	10
4-Methyl-2-pentanone	ND		10	ug/L			06/12/25 11:23	10
Acetone	ND		10	ug/L			06/12/25 11:23	10
Benzene	24		1.0	ug/L			06/12/25 11:23	10
Bromobenzene	ND		1.0	ug/L			06/12/25 11:23	10
Bromodichloromethane	ND		1.0	ug/L			06/12/25 11:23	10
Dibromochloromethane	ND		1.0	ug/L			06/12/25 11:23	10
Bromoform	ND		1.0	ug/L			06/12/25 11:23	10
Bromomethane	ND		3.0	ug/L			06/12/25 11:23	10
Carbon disulfide	ND		10	ug/L			06/12/25 11:23	10
Carbon tetrachloride	ND		1.0	ug/L			06/12/25 11:23	10
Chlorobenzene	ND		1.0	ug/L			06/12/25 11:23	10
Chloroethane	ND		2.0	ug/L			06/12/25 11:23	10
Chloroform	ND		1.0	ug/L			06/12/25 11:23	10
Chloromethane	ND		3.0	ug/L			06/12/25 11:23	10
cis-1,2-Dichloroethene	ND		1.0	ug/L			06/12/25 11:23	10
cis-1,3-Dichloropropene	ND		1.0	ug/L			06/12/25 11:23	10
Dibromomethane	ND		1.0	ug/L			06/12/25 11:23	10
Dichlorodifluoromethane	ND		1.0	ug/L			06/12/25 11:23	10
Ethylbenzene	9.9		1.0	ug/L			06/12/25 11:23	10
Hexachlorobutadiene	ND		1.0	ug/L			06/12/25 11:23	10

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Client Sample ID: Pilot BH 01-D

Lab Sample ID: 885-26522-2

Date Collected: 06/09/25 14:10

Matrix: Air

Date Received: 06/11/25 07:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	ug/L			06/12/25 11:23	10
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			06/12/25 11:23	10
Methylene Chloride	ND		3.0	ug/L			06/12/25 11:23	10
n-Butylbenzene	ND		3.0	ug/L			06/12/25 11:23	10
N-Propylbenzene	ND		1.0	ug/L			06/12/25 11:23	10
Naphthalene	ND		2.0	ug/L			06/12/25 11:23	10
sec-Butylbenzene	ND		1.0	ug/L			06/12/25 11:23	10
Styrene	ND		1.0	ug/L			06/12/25 11:23	10
tert-Butylbenzene	ND		1.0	ug/L			06/12/25 11:23	10
Tetrachloroethene (PCE)	ND		1.0	ug/L			06/12/25 11:23	10
Toluene	400		10	ug/L			06/12/25 14:13	100
trans-1,2-Dichloroethene	ND		1.0	ug/L			06/12/25 11:23	10
trans-1,3-Dichloropropene	ND		1.0	ug/L			06/12/25 11:23	10
Trichloroethene (TCE)	ND		1.0	ug/L			06/12/25 11:23	10
Trichlorofluoromethane	ND		1.0	ug/L			06/12/25 11:23	10
Vinyl chloride	ND		1.0	ug/L			06/12/25 11:23	10
Xylenes, Total	170		1.5	ug/L			06/12/25 11:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 130		06/12/25 11:23	10
Toluene-d8 (Surr)	115		70 - 130		06/12/25 11:23	10
Toluene-d8 (Surr)	90		70 - 130		06/12/25 14:13	100
4-Bromofluorobenzene (Surr)	100		70 - 130		06/12/25 11:23	10
Dibromofluoromethane (Surr)	116		70 - 130		06/12/25 11:23	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	40000		500	ug/L			06/12/25 15:20	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150		06/12/25 15:20	100

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Client Sample ID: Pilot BH 04

Lab Sample ID: 885-26522-3

Date Collected: 06/10/25 12:10

Matrix: Air

Date Received: 06/11/25 07:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			06/12/25 11:51	10
1,1,1-Trichloroethane	ND		1.0	ug/L			06/12/25 11:51	10
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			06/12/25 11:51	10
1,1,2-Trichloroethane	ND		1.0	ug/L			06/12/25 11:51	10
1,1-Dichloroethane	ND		1.0	ug/L			06/12/25 11:51	10
1,1-Dichloroethene	ND		1.0	ug/L			06/12/25 11:51	10
1,1-Dichloropropene	ND		1.0	ug/L			06/12/25 11:51	10
1,2,3-Trichlorobenzene	ND		1.0	ug/L			06/12/25 11:51	10
1,2,3-Trichloropropane	ND		2.0	ug/L			06/12/25 11:51	10
1,2,4-Trichlorobenzene	ND		1.0	ug/L			06/12/25 11:51	10
1,2,4-Trimethylbenzene	27		1.0	ug/L			06/12/25 11:51	10
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			06/12/25 11:51	10
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			06/12/25 11:51	10
1,2-Dichlorobenzene	ND		1.0	ug/L			06/12/25 11:51	10
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			06/12/25 11:51	10
1,2-Dichloropropane	ND		1.0	ug/L			06/12/25 11:51	10
1,3,5-Trimethylbenzene	29		1.0	ug/L			06/12/25 11:51	10
1,3-Dichlorobenzene	ND		1.0	ug/L			06/12/25 11:51	10
1,3-Dichloropropane	ND		1.0	ug/L			06/12/25 11:51	10
1,4-Dichlorobenzene	ND		1.0	ug/L			06/12/25 11:51	10
1-Methylnaphthalene	ND		4.0	ug/L			06/12/25 11:51	10
2,2-Dichloropropane	ND		2.0	ug/L			06/12/25 11:51	10
2-Butanone	ND		10	ug/L			06/12/25 11:51	10
2-Chlorotoluene	ND		1.0	ug/L			06/12/25 11:51	10
2-Hexanone	ND		10	ug/L			06/12/25 11:51	10
2-Methylnaphthalene	ND		4.0	ug/L			06/12/25 11:51	10
4-Chlorotoluene	ND		1.0	ug/L			06/12/25 11:51	10
4-Isopropyltoluene	ND		1.0	ug/L			06/12/25 11:51	10
4-Methyl-2-pentanone	ND		10	ug/L			06/12/25 11:51	10
Acetone	ND		10	ug/L			06/12/25 11:51	10
Benzene	15		1.0	ug/L			06/12/25 11:51	10
Bromobenzene	ND		1.0	ug/L			06/12/25 11:51	10
Bromodichloromethane	ND		1.0	ug/L			06/12/25 11:51	10
Dibromochloromethane	ND		1.0	ug/L			06/12/25 11:51	10
Bromoform	ND		1.0	ug/L			06/12/25 11:51	10
Bromomethane	ND		3.0	ug/L			06/12/25 11:51	10
Carbon disulfide	ND		10	ug/L			06/12/25 11:51	10
Carbon tetrachloride	ND		1.0	ug/L			06/12/25 11:51	10
Chlorobenzene	ND		1.0	ug/L			06/12/25 11:51	10
Chloroethane	ND		2.0	ug/L			06/12/25 11:51	10
Chloroform	ND		1.0	ug/L			06/12/25 11:51	10
Chloromethane	ND		3.0	ug/L			06/12/25 11:51	10
cis-1,2-Dichloroethene	ND		1.0	ug/L			06/12/25 11:51	10
cis-1,3-Dichloropropene	ND		1.0	ug/L			06/12/25 11:51	10
Dibromomethane	ND		1.0	ug/L			06/12/25 11:51	10
Dichlorodifluoromethane	ND		1.0	ug/L			06/12/25 11:51	10
Ethylbenzene	37		1.0	ug/L			06/12/25 11:51	10
Hexachlorobutadiene	ND		1.0	ug/L			06/12/25 11:51	10

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Client Sample ID: Pilot BH 04

Lab Sample ID: 885-26522-3

Date Collected: 06/10/25 12:10

Matrix: Air

Date Received: 06/11/25 07:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	7.1		1.0	ug/L			06/12/25 11:51	10
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			06/12/25 11:51	10
Methylene Chloride	ND		3.0	ug/L			06/12/25 11:51	10
n-Butylbenzene	ND		3.0	ug/L			06/12/25 11:51	10
N-Propylbenzene	6.0		1.0	ug/L			06/12/25 11:51	10
Naphthalene	ND		2.0	ug/L			06/12/25 11:51	10
sec-Butylbenzene	1.3		1.0	ug/L			06/12/25 11:51	10
Styrene	ND		1.0	ug/L			06/12/25 11:51	10
tert-Butylbenzene	ND		1.0	ug/L			06/12/25 11:51	10
Tetrachloroethene (PCE)	ND		1.0	ug/L			06/12/25 11:51	10
Toluene	440		10	ug/L			06/12/25 14:41	100
trans-1,2-Dichloroethene	ND		1.0	ug/L			06/12/25 11:51	10
trans-1,3-Dichloropropene	ND		1.0	ug/L			06/12/25 11:51	10
Trichloroethene (TCE)	ND		1.0	ug/L			06/12/25 11:51	10
Trichlorofluoromethane	ND		1.0	ug/L			06/12/25 11:51	10
Vinyl chloride	ND		1.0	ug/L			06/12/25 11:51	10
Xylenes, Total	350		15	ug/L			06/12/25 14:41	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		70 - 130		06/12/25 11:51	10
Toluene-d8 (Surr)	157	S1+	70 - 130		06/12/25 11:51	10
Toluene-d8 (Surr)	94		70 - 130		06/12/25 14:41	100
4-Bromofluorobenzene (Surr)	108		70 - 130		06/12/25 11:51	10
Dibromofluoromethane (Surr)	129		70 - 130		06/12/25 11:51	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	55000		500	ug/L			06/12/25 14:59	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	S1+	15 - 150		06/12/25 14:59	100

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State of New Mexico
Energy, Minerals and Natural Resources Department

Michele Lujan Grisham
Governor

Melanie A. Kenderdine
Cabinet Secretary

Ben Shelton
Deputy Cabinet Secretary

Erin Taylor
Deputy Secretary

Albert C.S. Chang
Division Director
Oil Conservation Division



December 9, 2025

Kate Kaufman – Senior Environmental Specialist
Hilcorp Energy Company
1111 Travis Street
Houston, TX 77002

RE: Conditional Approval of Soil Vapor Extraction (SVE) Remediation Method for SAN JUAN 28 6 UNIT #093; Incident #: nAPP2436230674; Application ID: 498522

Mr. Hyde,

The Oil Conservation Division (OCD) has reviewed and approved the subject work plan with the following conditions;

1. Hilcorp Energy Company's (Hilcorp) SVE system must be designed to have a minimum of 90% operational runtime, 24/7, start to finish. Operation & maintenance (O&M) or any matter that requires a temporary downtime should be excluded within the applicable runtime.
2. On-site analog or digital runtime counter must be installed and viewable to OCD personnel. Any alternative method must be explained and pre-approved by OCD.
3. The following field data measurement parameters will be required and reported (prior to reaching vacuum pump);
 - a. Total Extracted Flow Rate via a Flow Meter
 - b. Flow Rates from each vapor extraction point/well (VEP)
 - c. Volatile Organic Compound (VOC) Concentrations for each VEP and/or VEP cluster being implemented via Handheld Gas Analyzer (e.g. – Photo Ionization Detector (PID))
 - d. Record vacuum pressure at each VEP and/or VEP cluster being implemented
 - e. Oxygen (O₂) and carbon di-oxide (CO₂) levels via hand-held analyzers from each VEP and/or VEP cluster being implemented, prior to reaching vacuum pump and at discharge orifice or vent stack
4. The following minimum timeline will be required for the above data recordings;
 - a. Daily for the first week
 - b. Weekly for the next three (3) months
 - c. Monthly thereafter for the first calendar year
 - d. Then contingent upon the recorded data output
5. Any water condensation will be categorized as oil field waste and must be disposed of accordingly. System modifications to address increased water collection and disposal must be pre-approved by OCD.
6. Extracted vapor sampling (prior to reaching vacuum pump) for laboratory testing will be required as follows;
 - a. Approximately 15-30 minutes and approximately 8-10 hours after startup (or at the end of the same day if initial sample collected in early morning), one full round of sampling for constituents noted in b, c, & d below
 - b. BTEX per US EPA Method 8021B or 8260B
 - c. TPH per US EPA Method 8015M
 - d. O₂ and CO₂

December 9, 2025

Page 2

RE: Conditional Approval of Soil Vapor Extraction (SVE) Remediation Method for SAN JUAN 28 6 UNIT #093; Incident #: nAPP2436230674; Application ID: 498522

7. The following timeline will be required for the above laboratory sampling elements;
 - a. Weekly - next three (3) weeks (first month)
 - b. Bi-weekly (twice a month) – next two (2) months (first quarter)
 - c. Bi-Monthly (every other month) - next nine (9) months (first year)
 - d. Quarterly – Year #2 until diminishing returns has been consistently documented
8. Hilcorp must submit to OCD quarterly reports for the first 2 years of operation. Reports are due no later than the 15th in the months of April (first quarter), July (second quarter), October (third quarter), and January (fourth quarter), then bi-annual thereafter (1st & 3rd or 2nd & 4th quarters), detailing the following;
 - a. Summary of remediation activity
 - b. Chart of O₂ & CO₂ levels over time
 - c. SVE runtime
 - d. SVE mass removal
 - e. Product recovery, if applicable
 - f. Laboratory air sample analysis, if applicable
9. Hilcorp must notify OCD of its initial system startup which is required within 90 days of this approval. If this cannot be achieved, Hilcorp must verify the delay within its request for a time extension.
10. Hilcorp must submit to OCD a closure plan prior to initiating confirmation sampling for final remediation termination.

These conditions by the OCD does not relieve Hilcorp of responsibility for compliance with any federal, state, or local law.

If you have any questions, please contact Scott Rodgers, Senior Environmental Scientist, at (505) 469-1830 or by email at scott.rodgers@emnrd.nm.gov.

Respectfully,
Scott

Mike Bratcher
Michael Bratcher
Incident Group Supervisor
(575) 626-0857

Scott Rodgers
Scott Rodgers
Senior Environmental Scientist
(505) 469-1830

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Client Sample ID: Pilot BH 02

Lab Sample ID: 885-26522-4

Date Collected: 06/10/25 13:45

Matrix: Air

Date Received: 06/11/25 07:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			06/12/25 12:20	10
1,1,1-Trichloroethane	ND		1.0	ug/L			06/12/25 12:20	10
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			06/12/25 12:20	10
1,1,2-Trichloroethane	ND		1.0	ug/L			06/12/25 12:20	10
1,1-Dichloroethane	ND		1.0	ug/L			06/12/25 12:20	10
1,1-Dichloroethene	ND		1.0	ug/L			06/12/25 12:20	10
1,1-Dichloropropene	ND		1.0	ug/L			06/12/25 12:20	10
1,2,3-Trichlorobenzene	ND		1.0	ug/L			06/12/25 12:20	10
1,2,3-Trichloropropane	ND		2.0	ug/L			06/12/25 12:20	10
1,2,4-Trichlorobenzene	ND		1.0	ug/L			06/12/25 12:20	10
1,2,4-Trimethylbenzene	7.6		1.0	ug/L			06/12/25 12:20	10
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			06/12/25 12:20	10
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			06/12/25 12:20	10
1,2-Dichlorobenzene	ND		1.0	ug/L			06/12/25 12:20	10
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			06/12/25 12:20	10
1,2-Dichloropropane	ND		1.0	ug/L			06/12/25 12:20	10
1,3,5-Trimethylbenzene	8.2		1.0	ug/L			06/12/25 12:20	10
1,3-Dichlorobenzene	ND		1.0	ug/L			06/12/25 12:20	10
1,3-Dichloropropane	ND		1.0	ug/L			06/12/25 12:20	10
1,4-Dichlorobenzene	ND		1.0	ug/L			06/12/25 12:20	10
1-Methylnaphthalene	ND		4.0	ug/L			06/12/25 12:20	10
2,2-Dichloropropane	ND		2.0	ug/L			06/12/25 12:20	10
2-Butanone	ND		10	ug/L			06/12/25 12:20	10
2-Chlorotoluene	ND		1.0	ug/L			06/12/25 12:20	10
2-Hexanone	ND		10	ug/L			06/12/25 12:20	10
2-Methylnaphthalene	ND		4.0	ug/L			06/12/25 12:20	10
4-Chlorotoluene	ND		1.0	ug/L			06/12/25 12:20	10
4-Isopropyltoluene	ND		1.0	ug/L			06/12/25 12:20	10
4-Methyl-2-pentanone	ND		10	ug/L			06/12/25 12:20	10
Acetone	ND		10	ug/L			06/12/25 12:20	10
Benzene	80		10	ug/L			06/12/25 15:09	100
Bromobenzene	ND		1.0	ug/L			06/12/25 12:20	10
Bromodichloromethane	ND		1.0	ug/L			06/12/25 12:20	10
Dibromochloromethane	ND		1.0	ug/L			06/12/25 12:20	10
Bromoform	ND		1.0	ug/L			06/12/25 12:20	10
Bromomethane	ND		3.0	ug/L			06/12/25 12:20	10
Carbon disulfide	ND		10	ug/L			06/12/25 12:20	10
Carbon tetrachloride	ND		1.0	ug/L			06/12/25 12:20	10
Chlorobenzene	ND		1.0	ug/L			06/12/25 12:20	10
Chloroethane	ND		2.0	ug/L			06/12/25 12:20	10
Chloroform	ND		1.0	ug/L			06/12/25 12:20	10
Chloromethane	ND		3.0	ug/L			06/12/25 12:20	10
cis-1,2-Dichloroethene	ND		1.0	ug/L			06/12/25 12:20	10
cis-1,3-Dichloropropene	ND		1.0	ug/L			06/12/25 12:20	10
Dibromomethane	ND		1.0	ug/L			06/12/25 12:20	10
Dichlorodifluoromethane	ND		1.0	ug/L			06/12/25 12:20	10
Ethylbenzene	67		1.0	ug/L			06/12/25 12:20	10
Hexachlorobutadiene	ND		1.0	ug/L			06/12/25 12:20	10

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Client Sample ID: Pilot BH 02

Lab Sample ID: 885-26522-4

Date Collected: 06/10/25 13:45

Matrix: Air

Date Received: 06/11/25 07:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	3.8		1.0	ug/L			06/12/25 12:20	10
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			06/12/25 12:20	10
Methylene Chloride	ND		3.0	ug/L			06/12/25 12:20	10
n-Butylbenzene	ND		3.0	ug/L			06/12/25 12:20	10
N-Propylbenzene	2.5		1.0	ug/L			06/12/25 12:20	10
Naphthalene	ND		2.0	ug/L			06/12/25 12:20	10
sec-Butylbenzene	ND		1.0	ug/L			06/12/25 12:20	10
Styrene	ND		1.0	ug/L			06/12/25 12:20	10
tert-Butylbenzene	ND		1.0	ug/L			06/12/25 12:20	10
Tetrachloroethene (PCE)	ND		1.0	ug/L			06/12/25 12:20	10
Toluene	2900 E		10	ug/L			06/12/25 15:09	100
trans-1,2-Dichloroethene	ND		1.0	ug/L			06/12/25 12:20	10
trans-1,3-Dichloropropene	ND		1.0	ug/L			06/12/25 12:20	10
Trichloroethene (TCE)	ND		1.0	ug/L			06/12/25 12:20	10
Trichlorofluoromethane	ND		1.0	ug/L			06/12/25 12:20	10
Vinyl chloride	ND		1.0	ug/L			06/12/25 12:20	10
Xylenes, Total	560		15	ug/L			06/12/25 15:09	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	151	S1+	70 - 130		06/12/25 12:20	10
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		06/12/25 15:09	100
Toluene-d8 (Surr)	168	S1+	70 - 130		06/12/25 12:20	10
Toluene-d8 (Surr)	96		70 - 130		06/12/25 15:09	100
4-Bromofluorobenzene (Surr)	100		70 - 130		06/12/25 12:20	10
Dibromofluoromethane (Surr)	167	S1+	70 - 130		06/12/25 12:20	10
Dibromofluoromethane (Surr)	106		70 - 130		06/12/25 15:09	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	140000 E		500	ug/L			06/12/25 14:37	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135		15 - 150		06/12/25 14:37	100

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QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

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

Lab Sample ID: MB 885-28124/4

Matrix: Air

Analysis Batch: 28124

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			06/12/25 10:27	1
1,1,1-Trichloroethane	ND		0.10	ug/L			06/12/25 10:27	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			06/12/25 10:27	1
1,1,2-Trichloroethane	ND		0.10	ug/L			06/12/25 10:27	1
1,1-Dichloroethane	ND		0.10	ug/L			06/12/25 10:27	1
1,1-Dichloroethene	ND		0.10	ug/L			06/12/25 10:27	1
1,1-Dichloropropene	ND		0.10	ug/L			06/12/25 10:27	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			06/12/25 10:27	1
1,2,3-Trichloropropane	ND		0.20	ug/L			06/12/25 10:27	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			06/12/25 10:27	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			06/12/25 10:27	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			06/12/25 10:27	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			06/12/25 10:27	1
1,2-Dichlorobenzene	ND		0.10	ug/L			06/12/25 10:27	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			06/12/25 10:27	1
1,2-Dichloropropane	ND		0.10	ug/L			06/12/25 10:27	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			06/12/25 10:27	1
1,3-Dichlorobenzene	ND		0.10	ug/L			06/12/25 10:27	1
1,3-Dichloropropane	ND		0.10	ug/L			06/12/25 10:27	1
1,4-Dichlorobenzene	ND		0.10	ug/L			06/12/25 10:27	1
1-Methylnaphthalene	ND		0.40	ug/L			06/12/25 10:27	1
2,2-Dichloropropane	ND		0.20	ug/L			06/12/25 10:27	1
2-Butanone	ND		1.0	ug/L			06/12/25 10:27	1
2-Chlorotoluene	ND		0.10	ug/L			06/12/25 10:27	1
2-Hexanone	ND		1.0	ug/L			06/12/25 10:27	1
2-Methylnaphthalene	ND		0.40	ug/L			06/12/25 10:27	1
4-Chlorotoluene	ND		0.10	ug/L			06/12/25 10:27	1
4-Isopropyltoluene	ND		0.10	ug/L			06/12/25 10:27	1
4-Methyl-2-pentanone	ND		1.0	ug/L			06/12/25 10:27	1
Acetone	ND		1.0	ug/L			06/12/25 10:27	1
Benzene	ND		0.10	ug/L			06/12/25 10:27	1
Bromobenzene	ND		0.10	ug/L			06/12/25 10:27	1
Bromodichloromethane	ND		0.10	ug/L			06/12/25 10:27	1
Dibromochloromethane	ND		0.10	ug/L			06/12/25 10:27	1
Bromoform	ND		0.10	ug/L			06/12/25 10:27	1
Bromomethane	ND		0.30	ug/L			06/12/25 10:27	1
Carbon disulfide	ND		1.0	ug/L			06/12/25 10:27	1
Carbon tetrachloride	ND		0.10	ug/L			06/12/25 10:27	1
Chlorobenzene	ND		0.10	ug/L			06/12/25 10:27	1
Chloroethane	ND		0.20	ug/L			06/12/25 10:27	1
Chloroform	ND		0.10	ug/L			06/12/25 10:27	1
Chloromethane	ND		0.30	ug/L			06/12/25 10:27	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			06/12/25 10:27	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			06/12/25 10:27	1
Dibromomethane	ND		0.10	ug/L			06/12/25 10:27	1
Dichlorodifluoromethane	ND		0.10	ug/L			06/12/25 10:27	1
Ethylbenzene	ND		0.10	ug/L			06/12/25 10:27	1
Hexachlorobutadiene	ND		0.10	ug/L			06/12/25 10:27	1

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

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

Lab Sample ID: MB 885-28124/4
 Matrix: Air
 Analysis Batch: 28124

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Isopropylbenzene	ND		0.10	ug/L			06/12/25 10:27	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			06/12/25 10:27	1
Methylene Chloride	ND		0.30	ug/L			06/12/25 10:27	1
n-Butylbenzene	ND		0.30	ug/L			06/12/25 10:27	1
N-Propylbenzene	ND		0.10	ug/L			06/12/25 10:27	1
Naphthalene	ND		0.20	ug/L			06/12/25 10:27	1
sec-Butylbenzene	ND		0.10	ug/L			06/12/25 10:27	1
Styrene	ND		0.10	ug/L			06/12/25 10:27	1
tert-Butylbenzene	ND		0.10	ug/L			06/12/25 10:27	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			06/12/25 10:27	1
Toluene	ND		0.10	ug/L			06/12/25 10:27	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			06/12/25 10:27	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			06/12/25 10:27	1
Trichloroethene (TCE)	ND		0.10	ug/L			06/12/25 10:27	1
Trichlorofluoromethane	ND		0.10	ug/L			06/12/25 10:27	1
Vinyl chloride	ND		0.10	ug/L			06/12/25 10:27	1
Xylenes, Total	ND		0.15	ug/L			06/12/25 10:27	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		06/12/25 10:27	1
Toluene-d8 (Surr)	89		70 - 130		06/12/25 10:27	1
4-Bromofluorobenzene (Surr)	99		70 - 130		06/12/25 10:27	1
Dibromofluoromethane (Surr)	105		70 - 130		06/12/25 10:27	1

Lab Sample ID: LCS 885-28124/3
 Matrix: Air
 Analysis Batch: 28124

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.00	2.37		ug/L		118	70 - 130
Chlorobenzene	2.00	1.92		ug/L		96	70 - 130
Toluene	2.00	1.88		ug/L		94	70 - 130
Trichloroethene (TCE)	2.00	2.10		ug/L		105	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
Toluene-d8 (Surr)	89		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

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

Lab Sample ID: MB 885-28161/4
Matrix: Air
Analysis Batch: 28161

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			06/12/25 12:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150				06/12/25 12:28	1

Lab Sample ID: LCS 885-28161/3
Matrix: Air
Analysis Batch: 28161

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	50.0	54.9		ug/L		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	217		15 - 150				

QC Association Summary

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

GC/MS VOA

Analysis Batch: 28124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26522-1	Pilot BH 01-S	Total/NA	Air	8260B	
885-26522-1	Pilot BH 01-S	Total/NA	Air	8260B	
885-26522-2	Pilot BH 01-D	Total/NA	Air	8260B	
885-26522-2	Pilot BH 01-D	Total/NA	Air	8260B	
885-26522-3	Pilot BH 04	Total/NA	Air	8260B	
885-26522-3	Pilot BH 04	Total/NA	Air	8260B	
885-26522-4	Pilot BH 02	Total/NA	Air	8260B	
885-26522-4	Pilot BH 02	Total/NA	Air	8260B	
MB 885-28124/4	Method Blank	Total/NA	Air	8260B	
LCS 885-28124/3	Lab Control Sample	Total/NA	Air	8260B	

GC VOA

Analysis Batch: 28161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26522-1	Pilot BH 01-S	Total/NA	Air	8015D	
885-26522-2	Pilot BH 01-D	Total/NA	Air	8015D	
885-26522-3	Pilot BH 04	Total/NA	Air	8015D	
885-26522-4	Pilot BH 02	Total/NA	Air	8015D	
MB 885-28161/4	Method Blank	Total/NA	Air	8015D	
LCS 885-28161/3	Lab Control Sample	Total/NA	Air	8015D	

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Client Sample ID: Pilot BH 01-S

Lab Sample ID: 885-26522-1

Date Collected: 06/09/25 12:35

Matrix: Air

Date Received: 06/11/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	28124	RA	EET ALB	06/12/25 10:55
Total/NA	Analysis	8260B		100	28124	RA	EET ALB	06/12/25 13:44
Total/NA	Analysis	8015D		50	28161	RA	EET ALB	06/12/25 13:32

Client Sample ID: Pilot BH 01-D

Lab Sample ID: 885-26522-2

Date Collected: 06/09/25 14:10

Matrix: Air

Date Received: 06/11/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	28124	RA	EET ALB	06/12/25 11:23
Total/NA	Analysis	8260B		100	28124	RA	EET ALB	06/12/25 14:13
Total/NA	Analysis	8015D		100	28161	RA	EET ALB	06/12/25 15:20

Client Sample ID: Pilot BH 04

Lab Sample ID: 885-26522-3

Date Collected: 06/10/25 12:10

Matrix: Air

Date Received: 06/11/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	28124	RA	EET ALB	06/12/25 11:51
Total/NA	Analysis	8260B		100	28124	RA	EET ALB	06/12/25 14:41
Total/NA	Analysis	8015D		100	28161	RA	EET ALB	06/12/25 14:59

Client Sample ID: Pilot BH 02

Lab Sample ID: 885-26522-4

Date Collected: 06/10/25 13:45

Matrix: Air

Date Received: 06/11/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	28124	RA	EET ALB	06/12/25 12:20
Total/NA	Analysis	8260B		100	28124	RA	EET ALB	06/12/25 15:09
Total/NA	Analysis	8015D		100	28161	RA	EET ALB	06/12/25 14:37

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26

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

Analysis Method	Prep Method	Matrix	Analyte
8015D		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

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
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
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	NELAP	NM100001	02-26-26

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

Analysis Method	Prep Method	Matrix	Analyte
8015D		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

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: SJ 28-6 #93

Job ID: 885-26522-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
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
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

Chain-of-Custody Record

Client: Hilcorp Energy
 Mailing Address: Kate Kaufman
 Project Name: SS 28-6 #93
 Turn-Around Time: 5 Day Standard Rush 3day

Project #: _____
 Project Manager: Stuart Hyde

Sampler: Dummy Burns
 On Ice: Yes No

of Coolers: 1
 Cooler Temp (including CF): H/A (°C)

Container Type and # 1-Telby NA
 Preservative Type NA
 HEAL No. _____

Accreditation: Az Compliance Level 4 (Full Validation)
 NELAC Other

QA/QC Package: Standard Level 4 (Full Validation)

EDD (Type) _____

Date	Time	Matrix	Sample Name
<u>6-9</u>	<u>1235</u>	<u>Air</u>	<u>Pilot BH01-S</u>
<u>↓</u>	<u>1410</u>	<u>↓</u>	<u>Pilot BH01-D</u>
<u>6-10</u>	<u>1210</u>	<u>↓</u>	<u>Pilot BH04</u>
<u>↓</u>	<u>1345</u>	<u>↓</u>	<u>Pilot BH02</u>

Date	Time	Relinquished by	Relinquished by	Received by	Date	Time
<u>6-10</u>	<u>1519</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>Charles</u>	<u>6/10/25</u>	<u>1519</u>
<u>6/10/25</u>	<u>1830</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>course</u>	<u>6/10/25</u>	<u>7:10</u>



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com | 885-26522 COC

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

<input checked="" type="checkbox"/> BTX / MIBE / TMBs (6021)	
<input checked="" type="checkbox"/> PH:8015B(GRO / DRO / MRO)	
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks: shyde
cc: zmyers
w weischart
h mishrik
@ensolum.com



Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-26522-1

Login Number: 26522

List Source: Eurofins Albuquerque

List Number: 1

Creator: Alderette, Joseph

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
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	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

QUESTIONS

Action 498522

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 498522
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2436230674
Incident Name	NAPP2436230674 SAN JUAN 28-6 UNIT 93 @ 30-039-07227
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-039-07227] SAN JUAN 28 6 UNIT #093

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	SAN JUAN 28-6 UNIT 93
Date Release Discovered	12/26/2024
Surface Owner	Private

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 6 BBL Recovered: 0 BBL Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Equipment Failure Valve Condensate Released: 21 BBL Recovered: 0 BBL Lost: 21 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	26.68-bbl release (20.88-bbl condensate & 5.8-bbl produced water) due to production tank valve failing.

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**

QUESTIONS, Page 2

Action 498522

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 498522
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 08/22/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 498522

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 498522
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 200 and 300 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 1 and 100 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	68
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4600
GRO+DRO (EPA SW-846 Method 8015M)	4600
BTEX (EPA SW-846 Method 8021B or 8260B)	635
Benzene (EPA SW-846 Method 8021B or 8260B)	3.2

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

On what estimated date will the remediation commence	03/10/2025
On what date will (or did) the final sampling or liner inspection occur	03/10/2025
On what date will (or was) the remediation complete(d)	07/29/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	5000
What is the estimated volume (in cubic yards) that will be remediated	9500

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

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

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QUESTIONS, Page 4

Action 498522

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 498522
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	Yes
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 08/22/2025
--	--

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

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QUESTIONS, Page 5

Action 498522

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 498522
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 498522

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 498522
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	488281
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/29/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	10

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

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CONDITIONS

Action 498522

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 498522
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Please see Conditions of Approval Letter within attached application file.	12/8/2025