ENSOLUM

January 29, 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 Report and Deferral Request
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2224144740

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Report and Deferral Request* for a release at the Seymour 6 natural gas production well (Site). The Site is located on Federal Land managed by the Bureau of Land Management (BLM) in rural San Juan County, New Mexico (Figure 1). The Seymour 6 is also located on a shared well pad with the Seymour #719 natural gas production well, owned and operated by Logos Operating, LLC. This report includes a summary of remediation activities performed at the Site to remove impacted soil and vegetation originating from the overtopping of oil from a below grade tank (BGT). The Site is located in Unit M, Section 14, Township 31 North, Range 9 West, in rural San Juan County, New Mexico.

1.0 SITE BACKGROUND

On August 18, 2022, Hilcorp discovered a 20-barrel (bbl) release of oil at the Site. Significant precipitation at the Site caused a BGT to overflow into the secondary containment berm. A section of the earthen berm subsequently failed and released fluids outside of the containment and ultimately migrated off the facility pad into an adjacent dry wash. The volume released was determined by the operator's monthly tank gauging data. Upon discovery, Hilcorp immediately emptied the remaining fluids from the BGT and retained a vacuum truck to recover any possible standing fluids at the Site (approximately 2 bbls). On August 19, 2022, Hilcorp excavated approximately 55 cubic yards of visibly impacted soil from the original footprint of the well pad at the Site for disposal at a permitted facility.

Hilcorp reported the release to the New Mexico Oil Conservation Division (NMOCD) and the BLM within 24 hours of discovery of the release. Hilcorp submitted a *Major Undesirable Event Report* to the BLM on August 19, 2022, and submitted a Form C-141 to the NMOCD on August 29, 2022, and a revised Form C-141 on August 31, 2022 (an error was discovered in the initial Form C-141 submitted on August 29, 2022). The NMOCD has assigned the Site Incident Number nAPP2224144740.

Due to the nature of the release migrating over a large portion of the well pad and into an adjacent dry wash, as well as the need for a Cultural Resources Inventory and Threatened and Endangered Species Evaluation to be conducted for off-pad areas per the BLM, Hilcorp submitted a *Remediation Work Plan* (prepared by Ensolum, dated September 29, 2022) to the NMOCD and BLM for review and approval. Specifically, the *Remediation Work Plan* described the proposed remediation and sampling activities and requested a variance for the frequency of excavation confirmation samples to be collected at the Site. The NMOCD and BLM approved the *Remediation Work Plan* and the NMOCD approved a variance for the frequency of excavation sampling on the well pad to be decreased from every 200 square feet to every 500 square feet for floor samples and from every 200 square feet to every 400 square feet for sidewall samples. Additionally, the NMOCD approved a sampling frequency of one sample per 100 linear feet for the collection of soil samples within the adjacent wash.

1.1 SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors (shown on Figure 2) 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). As presented in Ensolum's *Remediation Work Plan*, the nearest significant watercourse and wetland to the Site is Minix Canyon located within 100 feet to the east of the well pad. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake (Figure 2).

The nearest fresh-water well is New Mexico Office of the State Engineer (NMOSE) permitted well SJ-03769, located approximately 0.66 miles northeast of the Site. The recorded depth to water on the NMOSE database is 390 feet below ground surface (bgs). No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the BLM). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

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 of the NMAC), the following "Closure Criteria" are applied to the Site constituents of concern (COCs) based on the proximity to a significant watercourse:

- 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

2.0 2022 SOIL SAMPLING ACTIVITIES

At the request of the BLM, Hilcorp conducted a *Cultural Resources Inventory* prior to conducting sampling work at the Site. Additionally, the BLM conducted an internal *Threatened and Endangered Species Evaluation* prior to the start of work to assess the presence of sensitive ecological receptors in the release pathway. No cultural resources or threatened and endangered species were discovered in the project area and the BLM approved the proposed work to be conducted within a 20-foot buffer area on either side of the dry wash.

After removing approximately 6 inches (0.5 feet) of soil from the well pad (conducted in August 2022 and based on petroleum hydrocarbon staining and odors), and once BLM approval was received for off-pad activities, Ensolum and Hilcorp personnel collected soil samples on December 8, 2022, to assess soil conditions both on the well pad and in the dry wash. Five-point composite soil samples were collected from the floor of the well pad excavation at a frequency of one sample per 500 square feet (samples SS01 through SS20). Due to the shallow nature of the excavation (0.5 feet in depth), shallow sidewall areas were incorporated into the composite floor samples. Additionally, 5-point composite samples were collected from the dry wash at a frequency of one sample for every 100 linear feet (samples WS01 through WS17). The entire release extent is shown on Figure 3, with specific sampling locations for the wash and well pad presented on Figures 4 and 6, respectively.

The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All samples were submitted for analyses BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Analytical results indicated two samples collected within the wash (WS01 and WS10) exceeded the applicable Closure Criteria for TPH. Concentrations of TPH also exceeded the Closure Criteria in all on-pad soil samples with the exception of samples SS02 and SS17. Additionally, concentrations of chloride exceeded the Closure Criteria in only one on-pad sample, SS08. All other COCs analyzed during the December 8, 2022, sampling event were in compliance with the applicable NMOCD Table I Closure Criteria. Analytical results collected during the December 2022 sampling event are summarized in Table 1.

3.0 2023 EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

In order to remove impacted soil from the wash, additional soil was removed from areas WS01 and WS10 located in the adjacent dry wash on June 19, 2023. Approximately 3 to 4 inches of soil was removed from these areas prior to resampling. Five-point composite samples were recollected from these areas at a frequency of one sample for every 100 linear feet and labeled WS01A and WS10A. Samples were handled in the manner described above and submitted to Hall for analysis of TPH, BTEX, and chloride. Analytical results indicated sample WS10A was in compliance with the NMOCD Closure Criteria; however, soil sample WS01A contained TPH concentrations continuing to exceed the Closure Criteria of 100 mg/kg. Confirmation wash sample results collected during this event are summarized in Table 1.

Once BLM approved the removal of on-pad equipment at the Site, Hilcorp conducted extensive soil removal activities on September 13, 2023, across the well pad and within the dry wash at area WS01. Based on the previous analytical results gathered from well pad samples SS01 through SS20, all sampling areas, except SS02 and SS20, required additional excavation to remove impacted soil. Approximately 3 to 4 inches of additional soil was removed in areas SS01 and SS03 through SS19. Five-point composite samples were recollected on September 13, 2023, from these areas and submitted to Hall for analysis of TPH, BTEX, and chloride.

Analytical results indicated TPH concentrations were greatly reduced and a majority of sampling areas were in compliance with NMOCD Closure Criteria; however, TPH concentrations exceeding the Closure Criteria were still present in soil in areas WS01, SS01, SS03, SS06, SS10, SS13, SS14, SS15, and SS19. As such, Hilcorp conducted additional soil removal on October 24, 2023, and Ensolum collected additional 5-point composite confirmation soil samples from these areas.

As indicated by the data, all sampling areas were in compliance with the NMOCD Closure Criteria with the exception of areas SS03 and SS15. Analytical results collected during these events are summarized in Table 1. Photographs taken during the sampling event are presented in Appendix A.

Of note, the NMOCD commented on soil sample area SS13 being 3.5 feet in depth in their June 27, 2024 comments attached in Appendix C. Soil sample SS13D was originally reported as being collected at a depth of 3.5 feet in the *Site Update Report and Deferral Request* dated June 24, 2024. After further review of field notes and photographs taken on October 24, 2023 (Photograph 9, Appendix A), the excavation area associated with SS13 was no deeper than approximately 1.25 feet bgs in any location at the Site. As such, the original reported depth was incorrect.

During the September 13, 2023, excavation work, stained soil was discovered at the northeast corner of area SS03 at a depth of 3 feet bgs that appeared to originate from a historical release. Discrete sample SS01d (shown on Figure 5) was collected at a depth of 3 feet bgs from the stained soil in order to assess petroleum hydrocarbon concentrations resulting from a historical release. Analytical results indicated TPH concentrations exceeded the Closure Criteria in this sample. To further assess the origins of impacts found in SS01d, several delineation potholes were advanced on October 24, 2023, south of SS01d. Samples were collected from one pothole, PH02, and submitted for laboratory analysis of TPH, BTEX, and chloride at depths of 2.5 feet and 5 feet bgs. Results indicated elevated TPH concentrations exceeding Closure Criteria in both samples. Analytical results collected during these events are summarized in Table 2.

4.0 2024 DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

To further delineation historical impacts discovered on September 13, 2023, Ensolum advanced three hand auger borings at the Site on February 1, 2024 to assess if historical impacts were present at the northeastern edge of the well pad. Hand auger borings HA01 through HA03 were advanced to the north and east of the secondary containment berm (shown on Figure 5) to depths of 5 feet bgs. Samples from each boring were collected at depths of 3 feet and 5 feet bgs and submitted to the Eurofins Environment Testing (Eurofins, formerly Hall) for analysis of TPH, BTEX, and chloride using the same methods described above. Concentrations of these COCs were either not detected above the laboratory reporting limits or were detected at concentrations below the applicable Closure Criteria.

Additional potholes were advanced at the Site on May 20, 2024 using a backhoe to further delineate the historical impacts located on the well pad. Potholes PH06 through PH11 were advanced in the locations indicated on Figure 5 to depths up to 10 feet bgs. Two samples were collected from each pothole based on photoionization detector (PID) field screening results: one from the depth interval indicating the highest PID readings and one from the terminus of the pothole once field screening indicated that soil impacts were absent. Analytical results indicated elevated TPH concentrations exceeding Closure Criteria in samples collected from PH06, PH08, and PH09. Exceedances of TPH concentrations were detected in all samples collected from pothole PH06 at 6, 9, and 10 feet bgs; however, concentrations rapidly decreased with depth from 23,681 mg/kg at 6 feet bgs to 920 at 10 feet bgs. Concentrations detected in PH08 and PH09 also decreased with depth and the terminal samples from both potholes were below the Site Closure Criteria. Additionally, TPH concentrations detected in these samples were predominantly within the DRO and MRO hydrocarbon ranges, with comparatively little to no volatile components of BTEX and/or GRO. There were no Closure Criteria exceedances in any of the remaining potholes.

Analytical results collected during these events are presented in Table 2 and summarized on Figure 5, with complete laboratory analytical reports attached as Appendix B. Sampling

notifications provided to the NMOCD are attached as Appendix C. Photographs taken during delineation efforts are included in Appendix A.

Based on previous excavation activities and confirmation soil sampling, TPH concentrations detected in samples from areas SS03 and SS15 remained above the Closure Criteria for the Site. As such and due to underground utilities in these areas, a hydrovac truck was utilized to remove additional soil on May 20, 2024. The hydrovac truck was used as a non-destructive method for removing soil located directly above and around underground utilities. Confirmation samples collected from these areas indicate that all COC concentrations from area SS03 (sample SS03E) are compliant with the Site Closure Criteria; however, TPH was detected in sample SS15E slightly above the Site Closure Criteria at a concentration of 158 mg/kg.

Because of the location of shallow utilities located within and west of area SS15 (shown on Figure 6), hand auger boring HA04 was advanced within the area to vertically delineate TPH impacts present in sample SS15E. Additionally, hand auger borings HA05, HA07, and HA08 were advanced west of HA04 to laterally delineate the remaining near-surface impacts at the Site. Analytical results are summarized in Tables 1 and 2 and shown on Figure 6, with complete laboratory analytical reports included in Appendix B. Sampling notifications provided to the NMOCD are attached as Appendix C. Photographs taken during excavation efforts are included in Appendix A.

Activities and data gathered from the Site through May of 2024 were submitted to the NMOCD in the *Site Update Report and Deferral Request* dated June 24, 2024. That report was subsequently rejected by the NMOCD on June 27, 2024, with the email rejection notification and associated reasoning is attached in Appendix C. Based on previous soil sampling data and the June 27, 2024 NMOCD comments, Hilcorp excavated historically impacted soil from the Site in the vicinity of PH02, PH06, PH08, and PH09 to the maximum extent practicable (MEP) based on safety concerns related to on-Site equipment and facilities. The NMOCD and BLM were notified prior to the commencement of excavation and sampling activities (Appendix C). Ensolum was on-Site during excavation activities in order to field screen and guide the remediation efforts to remove historically impacted soil. Once field screening indicated impacted soil was removed to the MEP, confirmation soil samples were collected from the final extents of the excavation. To be conservative, five-point composite soil samples were collected from the floor and sidewalls of the excavation at a frequency of one sample per 200 square feet on November 6 and 7, 2024. The 5-point composite samples were collected and transported using the methods described in Section 2.0 above. The soil samples were transported to Eurofins for analysis of BTEX, TPH, and chloride following the analytical methods described above. Based on analytical results, floor samples FS01, FS02, FS04, FS09, FS10, FS11, and FS12 and sidewall samples SW06, SW09, and SW10 (shown on Figure 7) contained TPH concentrations exceeding the NMOCD Table I Closure Criteria. BTEX and chloride constituents were either not detected above the laboratory reporting limits or were present at concentrations below the Closure Criteria.

Based on the November 6 and 7, 2024 results, Hilcorp removed additional soil on November 18, 2024. Additional soil was removed from floor areas FS09, FS10, FS11, and FS12 and sidewall area SW06. Samples were recollected and submitted for TPH, BTEX, and chloride analysis, with results indicated with an “A” as presented in Table 3 and Figure 7. Of these samples, only FS10A contained TPH concentrations exceeding the Closure Criteria. All other analyzed samples were compliant with the Closure Criteria.

Additional soil from floor areas FS01, FS02, and FS04 could not be removed due to collapsing sidewalls posing a significant risk to on-Site equipment, as shown in Photograph 13 in Appendix A. Additionally, the sidewall in areas SW09 and SW10 were originally advanced to the MEP with the existing utilities in the area. Because of the location of on-Site utilities and safety

concerns with continuing to advance the excavation to deeper depths, the excavation was backfilled with the limited remaining TPH-impacted soil left in place.

In attempts to vertically delineate the historical impacts, hand auger boring HA06 was advanced after the excavation was backfilled. HA06 was advanced until refusal was met on bedrock at a depth of 13 feet bgs. Based on field screening, samples were collected at depths of 12 feet and 13 feet bgs. TPH concentrations exceeded the Table I Closure Criteria in both samples; however, TPH concentrations drastically decreased from 8,200 mg/kg at 12 feet bgs to 490 mg/kg at 13 feet bgs.

Delineation and excavation analytical results are summarized in Tables 2 and 3, respectively, with complete laboratory analytical reports included in Appendix B. Sample locations are indicated on Figure 7. Sampling notifications provided to the NMOCD are attached as Appendix C. Photographs taken during delineation and excavation efforts are included in Appendix A.

5.0 CONCLUSIONS AND DEFERRAL REQUEST

Based on soil sample results described above, petroleum hydrocarbon impacts resulting from the August 2022 release of crude oil have been successfully remediated with the exception of the area near SS15. All other confirmation samples collected from the well-pad and adjacent wash are compliant with the NMOCD Table I Closure Criteria. The remaining TPH impacted soil near area SS15 is located directly above active subsurface gas pipelines and utilities. Additionally, based on the delineation and excavation sample results collected at the Site, it is estimated that approximately 170 cubic yards of historically impacted soil remains at the Site. Additional excavation of these areas is not currently possible given the location and use of on-Site equipment and utilities.

In accordance with 19.15.29.12.C.(2) NMAC, Hilcorp is requesting to defer the remediation of the remaining impacted soil until the time of final plugging and abandonment and reclamation of the Site. Although the vertical extent of TPH impacts have not been vertically delineated in the area of hand auger HA06, concentrations quickly diminish with depth at the soil/bedrock interface and are anticipated to decrease to below the most stringent Closure Criteria within several feet. Due to the historical nature of the impacts remaining at the Site, the chemical composition of the TPH present, the depth of impacts in the soil, and the estimated depth to groundwater of greater than 100 feet bgs, it is unlikely that TPH concentrations will migrate significantly beyond their current location. Additionally, with the exception of the significant watercourse located to the east/southeast of the well pad, there are no other sensitive receptors near the Site. Impacts left in place are located at locations and depths that are unlikely to pose an exposure risk to or potentially affect the watercourse.

Impacted soil remaining at the Site is located in areas immediately under and around production equipment that would cause a major facility deconstruction in order to fully remediate remaining impacted soil. Based on the information provided in this report, Hilcorp does not believe deferment will result in an imminent risk to human health, the environment, groundwater, and/or surface water.

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

Sincerely,
Ensolum, LLC

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Attachments:

Figure 1: Site Location Map
Figure 2: Site Receptor Map
Figure 3: Initial Release Extent
Figure 4: Composite Soil Sample Locations – Wash
Figure 5: Delineation of Historical Impacts
Figure 6: Composite Soil Sample Locations – Well Pad
Figure 7: Additional Excavation

Table 1: Confirmation Soil Sample Analytical Results
Table 2: Delineation Soil Sample Analytical Results
Table 3: Historical Excavation Confirmation Soil Sample Analytical Results

Appendix A: Site Photographs
Appendix B: Laboratory Analytical Reports
Appendix C: Agency Correspondence

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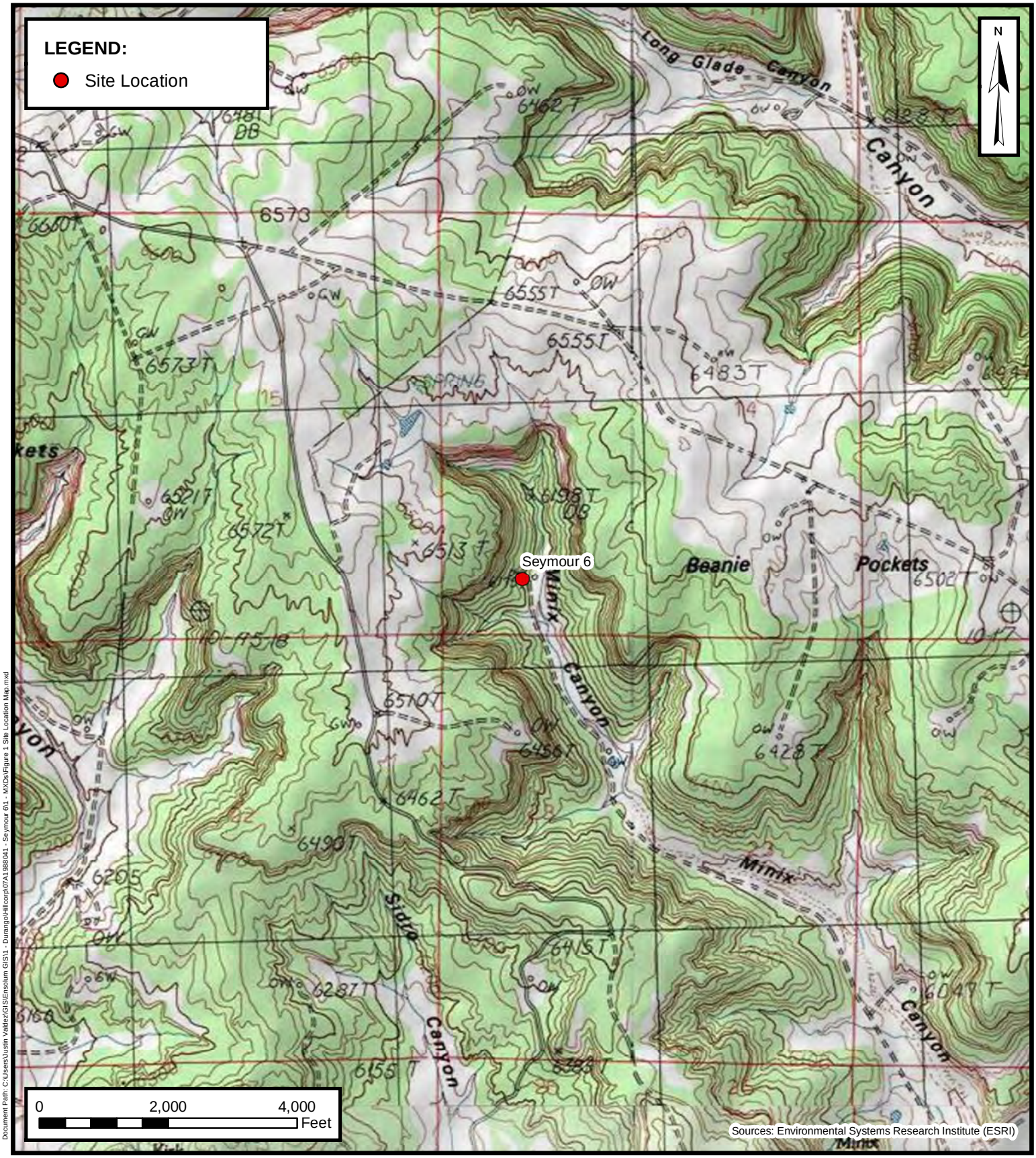
FIGURES



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\1 - Durango\Hilcorp\07A1988041 - Seymour 6\1 - MXDs\Figure 1 Site Location Map.mxd

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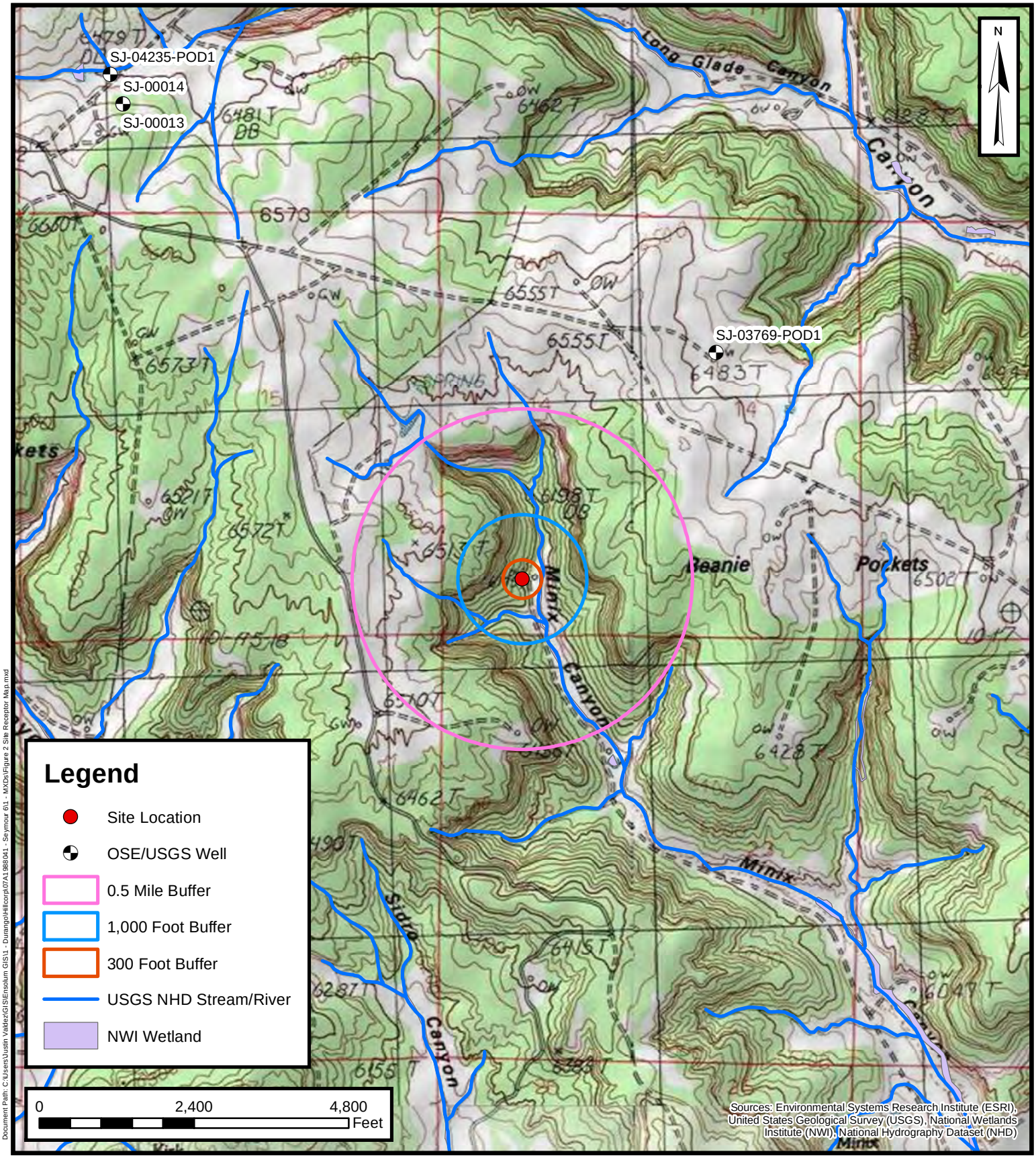
Site Location Map

Seymour 6
Hilcorp Energy Company
36.8929138, -107.7552261
San Juan County, NM

FIGURE
1



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\1 - Durango\Hilcorp\07A1988041 - Seymour 6\1 - MXDs\Figure 2 Site Receptor Map.mxd

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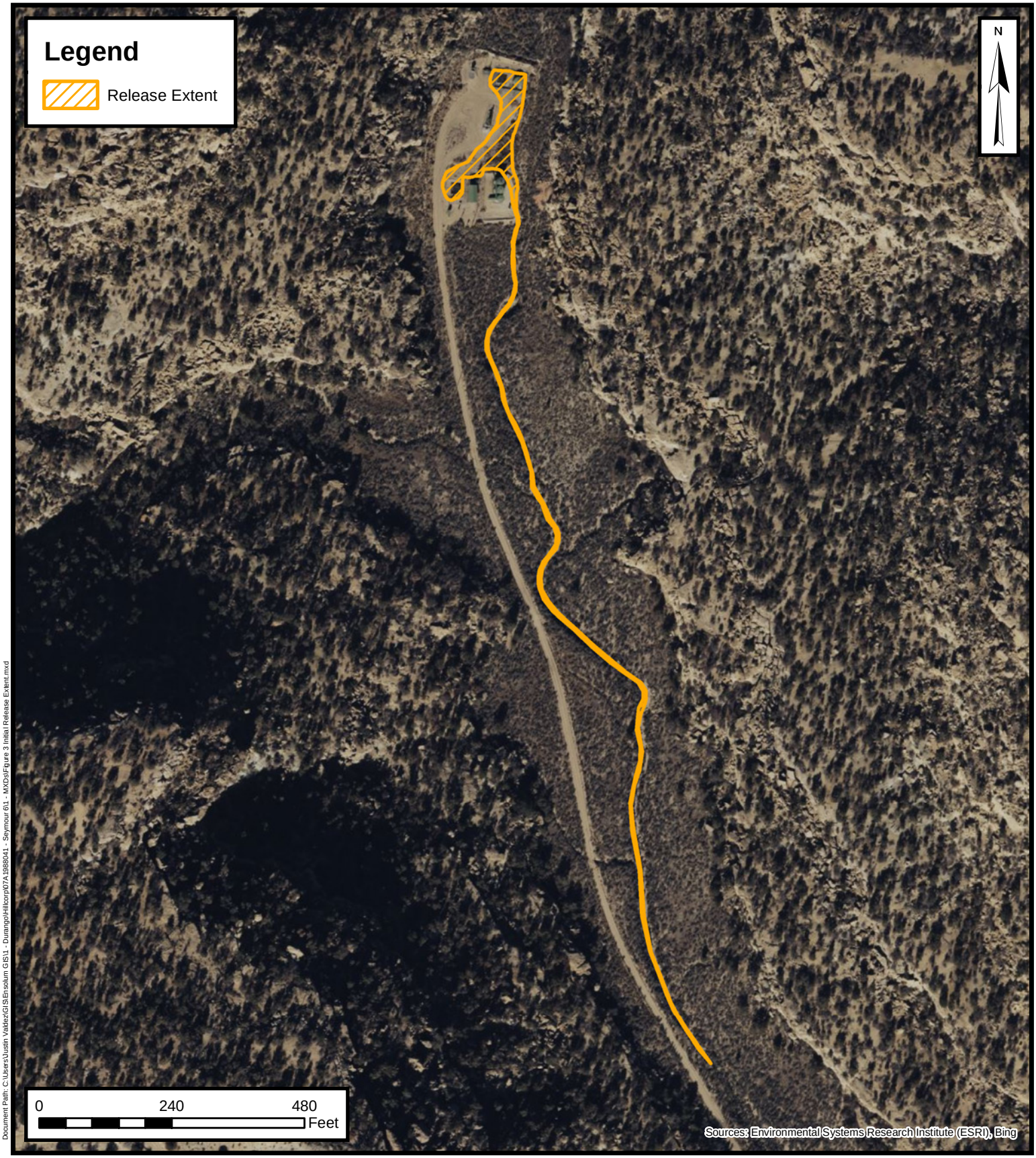
Site Receptor Map

Seymour 6
Hilcorp Energy Company
36.8929138, -107.7552261
San Juan County, NM

FIGURE
2



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\1 - Durango\Hilcorp\07A1988041 - Seymour 6\1 - MXDs\Figure 3 Initial Release Extent.mxd

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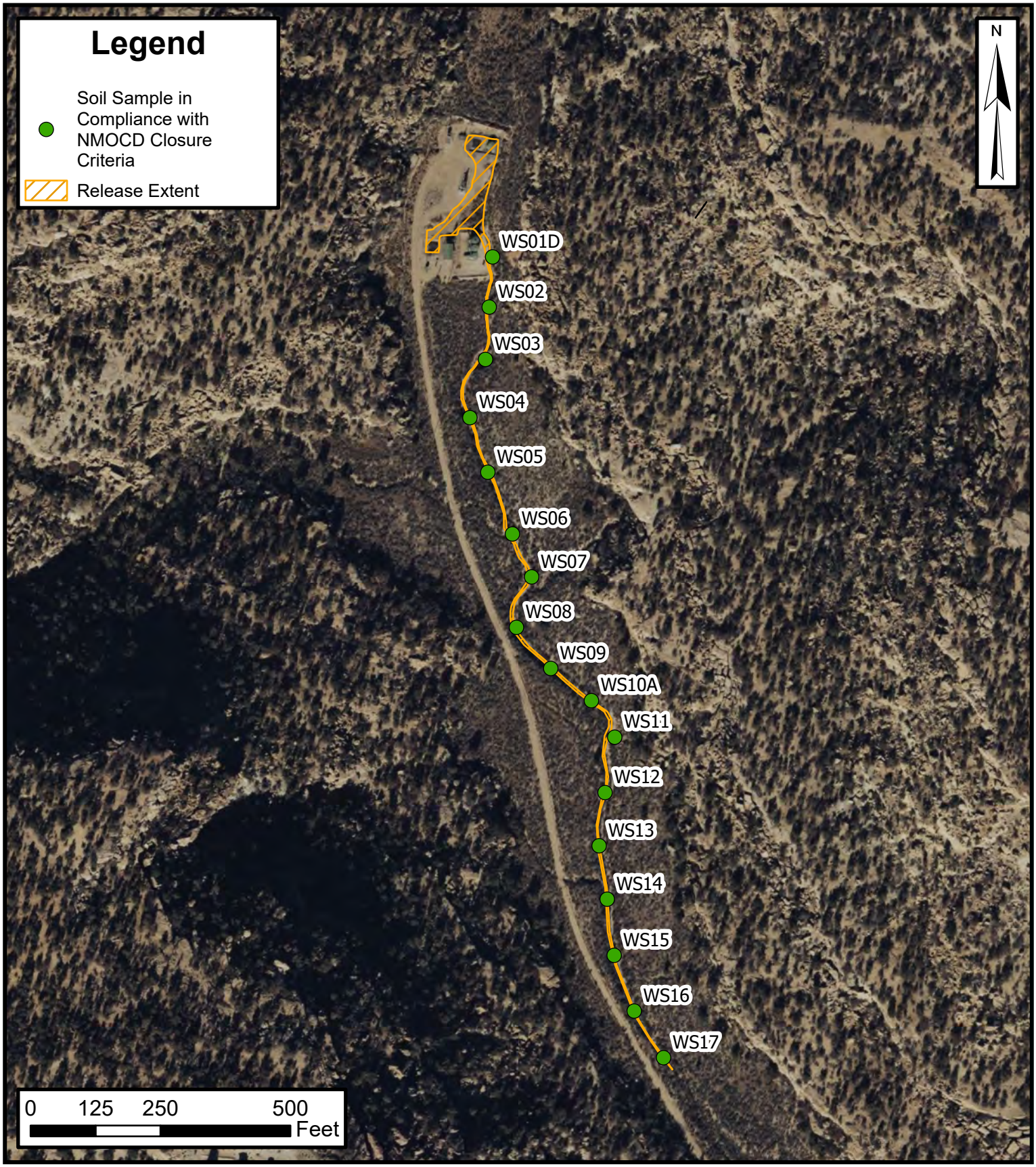
Initial Release Extent

Seymour 6
Hilcorp Energy Company
36.8929138, -107.7552261
San Juan County, NM

FIGURE
3



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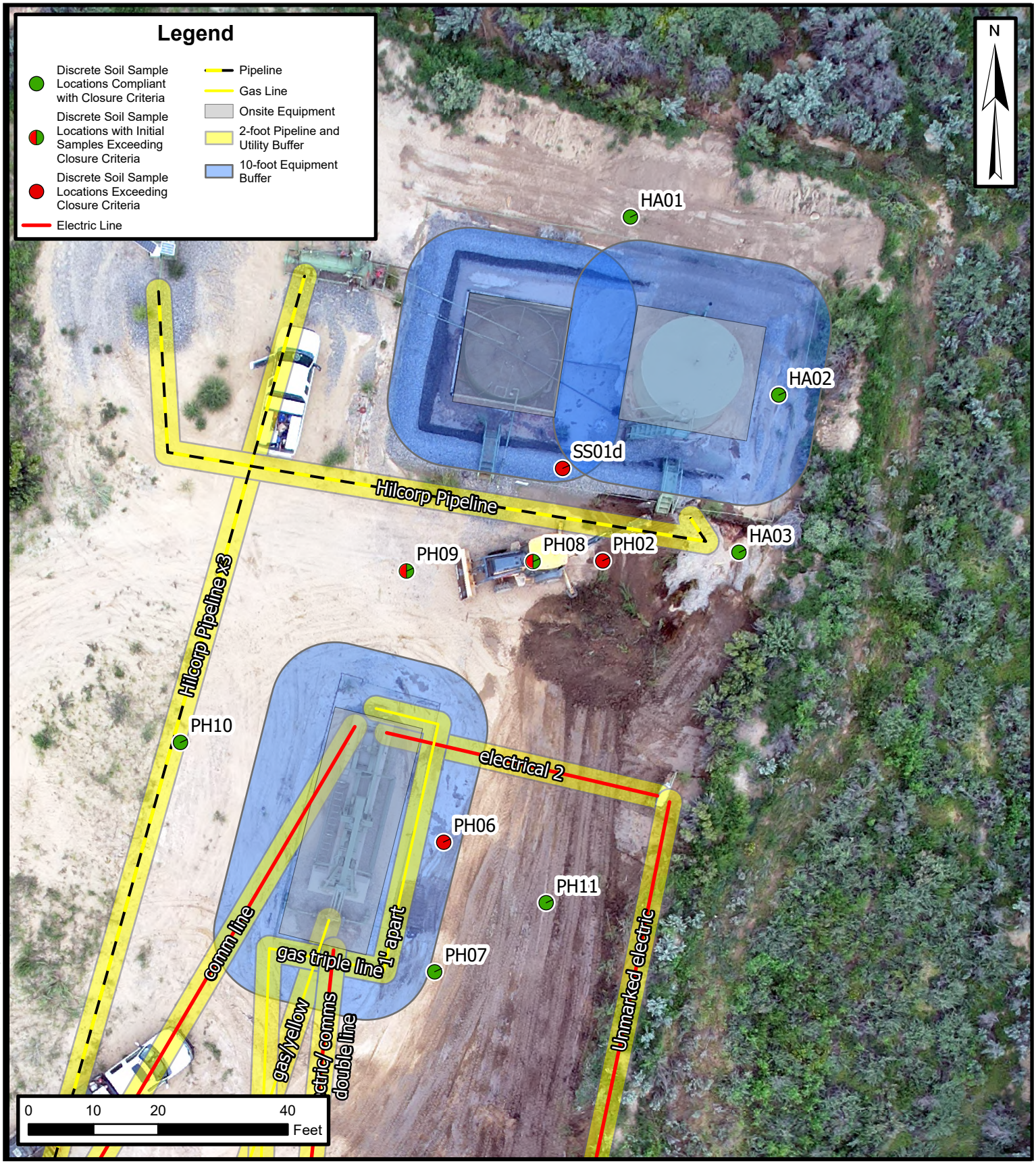
Composite Soil Sample Locations - Wash

Seymour 6
Hilcorp Energy Company
36.89291, -107.75523
San Juan County, New Mexico

FIGURE
4

Sources: Environmental Systems Research Institute (ESRI), Bing, Microsoft, Maxar



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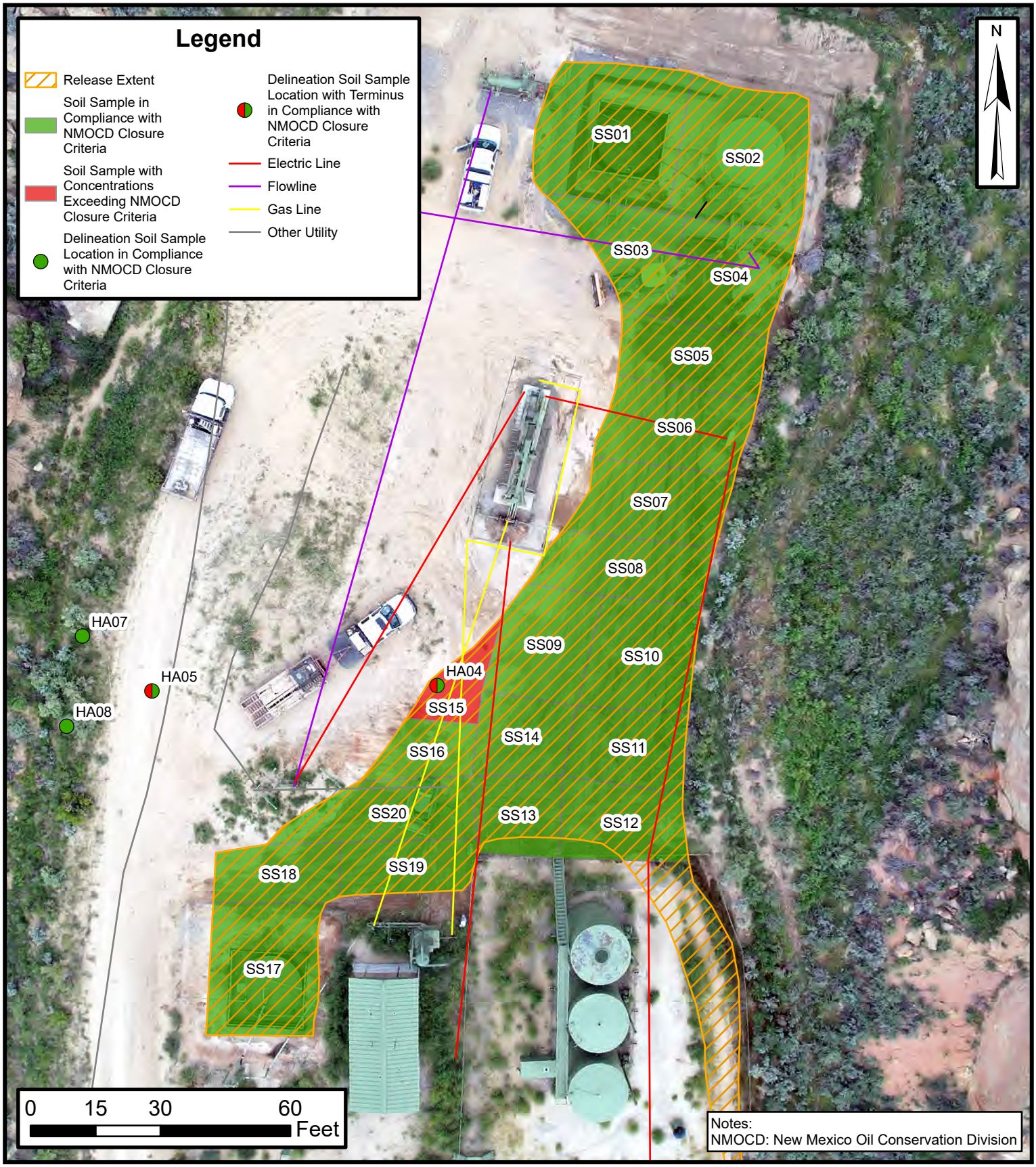
Delineation of Historical Impacts

Seymour 6
Hilcorp Energy Company
36.89291, -107.75523
San Juan County, New Mexico

FIGURE
5

Sources: Environmental Systems Research Institute (ESRI)



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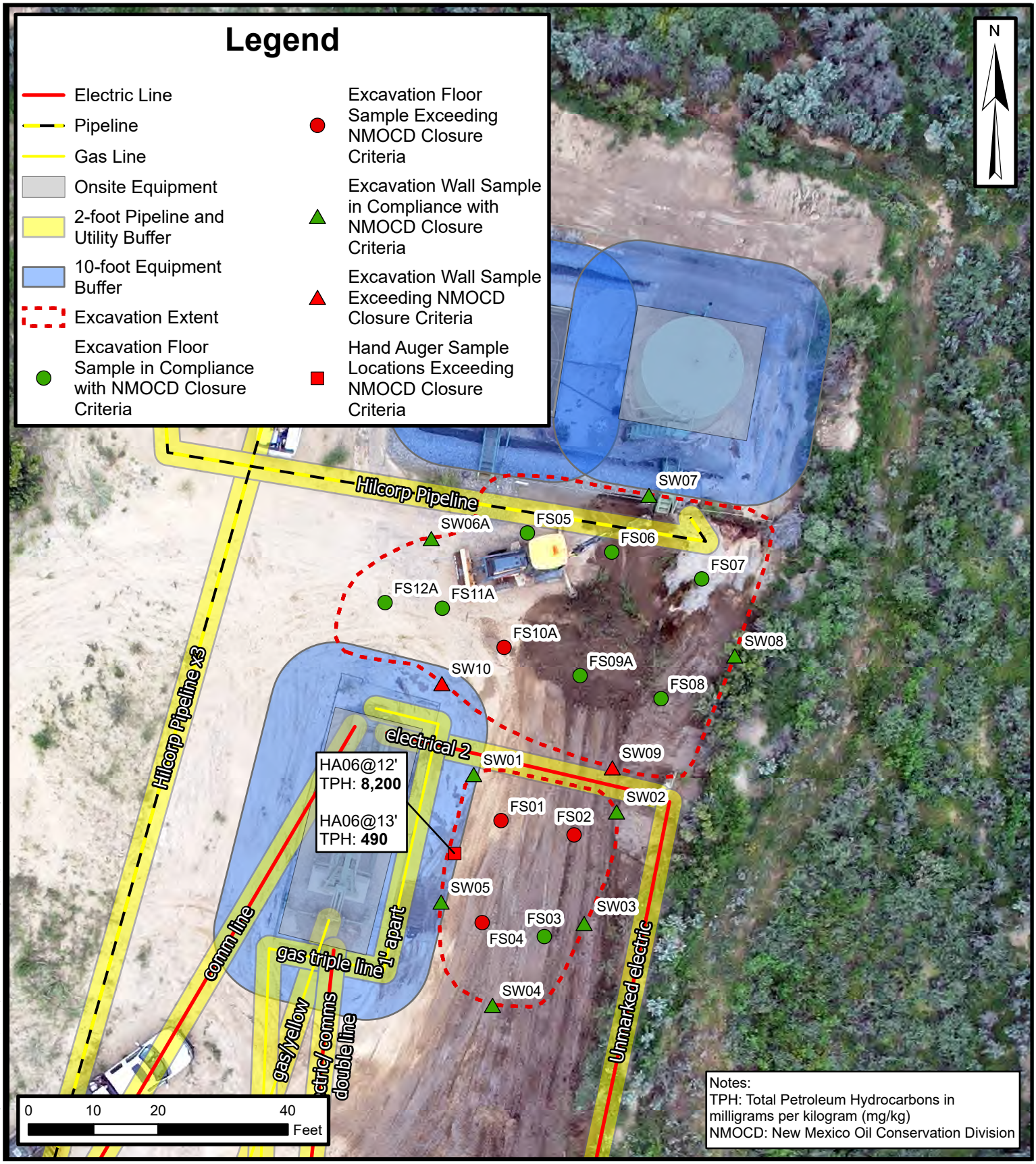
Composite Soil Sample Locations - Well Pad

Seymour 6
Hilcorp Energy Company
36.89291, -107.75523
San Juan County, New Mexico

FIGURE
6

Sources: Environmental Systems Research Institute (ESRI)



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Additional Excavation

Seymour 6
Hilcorp Energy Company
36.89291, -107.75523
San Juan County, New Mexico

FIGURE
7

Sources: Environmental Systems Research Institute (ESRI)

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TABLES

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TABLE 1
CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS
Seymour 6
Hilcorp Energy Company
San Juan County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
Wash Composite Soil Samples												
~~WS01~~	~~12/8/2022~~	~~0 - 0.25~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~1,000~~	~~590~~	~~**1,590**~~	~~<60~~
~~WS01A~~	~~6/19/2023~~	~~0.5~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~410~~	~~240~~	~~**650**~~	~~<60~~
~~WS01c~~	~~9/13/2023~~	~~0.75~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.097~~	~~<4.8~~	~~85~~	~~110~~	~~**195**~~	~~<60~~
WS01D	10/24/2023	1.0	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<10	<50	<50	<60
WS02	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<46	<46	<60
WS03	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<13	<44	<44	<59
WS04	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<47	<47	<59
WS05	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	<60
WS06	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<48	<48	<60
WS07	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	<60
WS08	12/8/2022	0 - 0.25	<0.024	<0.049	<<0.049	<0.098	<0.098	<4.9	<14	<48	<48	<61
WS09	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<13	<45	<45	<59
~~WS10~~	~~12/8/2022~~	~~0 - 0.25~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~41~~	~~79~~	~~**120**~~	~~<60~~
WS10A	6/19/2023	0.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.6	<43	<43	<60
WS11	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<15	<48	<48	<60
WS12	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<15	<50	<50	<60
WS13	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.098	<0.098	>4.9	<14	<47	<47	<60
WS14	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<47	<47	<60
WS15	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<13	<43	<43	<60
WS16	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<46	<60
WS17	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<46	<60
Well Pad Composite Soil Samples												
~~SS01~~	~~12/8/2022~~	~~0 - 0.25~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.097~~	~~<4.8~~	~~360~~	~~380~~	~~**740**~~	~~<60~~
SS01A 1'	6/19/2023	1.0	<0.025	<0.050	<0.050	<0.100	<0.100	<4.8	<9.7	<48	<48	<60
~~SS01b~~	~~9/13/2023~~	~~0.5~~	~~<0.019~~	~~<0.038~~	~~<0.038~~	~~<0.075~~	~~<0.075~~	~~<3.8~~	~~35~~	~~75~~	~~**110**~~	~~<60~~
~~SS01b@1' (1)~~	~~9/13/2023~~	~~1.0~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~<4.8~~	~~<9.4~~	~~<47~~	~~<47~~	~~<60~~
~~SS01c~~	~~9/13/2023~~	~~1.5~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.099~~	~~<4.9~~	~~59~~	~~88~~	~~**147**~~	~~<60~~
SS01E	10/24/2023	2.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	10	<49	10	<60
SS02	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	29	<49	29	<60
~~SS03~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.099~~	~~<4.9~~	~~390~~	~~330~~	~~**720**~~	~~<60~~
~~SS03c~~	~~9/13/2023~~	~~0.75~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.096~~	~~<4.8~~	~~140~~	~~340~~	~~**480**~~	~~<60~~
~~**SS03D**~~	~~10/24/2023~~	~~1.25~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.095~~	~~<0.095~~	~~<4.7~~	~~250~~	~~510~~	~~**760**~~	~~<60~~
SS03E	5/20/2024	1.75	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	30	55	85	90
~~SS04~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~<71~~	~~<240~~	~~**<240**~~	~~<60~~
SS04c	9/13/2023	0.75	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	26	<42	26	<60
~~SS05~~	~~12/8/2022~~	~~0.5~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~210~~	~~210~~	~~**420**~~	~~<60~~
SS05c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	15	<46	15	<60

ENSOLUM

TABLE 1
CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS
Seymour 6
Hilcorp Energy Company
San Juan County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
~~SS06~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.099~~	~~<5.0~~	~~2600~~	~~2400~~	~~**5,000**~~	~~76~~
~~SS06c~~	~~9/13/2023~~	~~0.75~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.099~~	~~<5.0~~	~~55~~	~~51~~	~~**106**~~	~~<60~~
SS06D	10/24/2023	1.25	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	27	58	85	<60
~~SS07~~	~~12/8/2022~~	~~0.5~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~400~~	~~390~~	~~**790**~~	~~230~~
SS07c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	32	56	88	130
~~SS08~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~1000~~	~~1200~~	~~**2,200**~~	~~**1,700**~~
SS08c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	22	<48	22	260
~~SS09~~	~~12/8/2022~~	~~0.5~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~86~~	~~150~~	~~**236**~~	~~**62**~~
SS09c	9/13/2023	0.75	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	29	47	76	180
~~SS10~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~540~~	~~740~~	~~**1,280**~~	~~**<60**~~
~~SS10c~~	~~9/13/2023~~	~~0.75~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.097~~	~~<4.9~~	~~71~~	~~110~~	~~**181**~~	~~<60~~
SS10D	10/24/2023	1.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	18	<48	18	<60
~~SS11~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~520~~	~~580~~	~~**1,100**~~	~~**<60**~~
SS11c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	20	55	75	<60
~~SS12~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~210~~	~~240~~	~~**450**~~	~~**<59**~~
SS12c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	14	<48	14	<60
~~SS13~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~2800~~	~~2300~~	~~**5,100**~~	~~**<60**~~
~~SS13c~~	~~9/13/2023~~	~~0.75~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.096~~	~~<4.8~~	~~330~~	~~410~~	~~**740**~~	~~<60~~
SS13D	10/24/2023	1.25	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.0	<45	<45	<60
~~SS14~~	~~12/8/2022~~	~~0.5~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.097~~	~~<4.9~~	~~2400~~	~~2300~~	~~**4,700**~~	~~**<60**~~
~~SS14c~~	~~9/13/2023~~	~~0.75~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~580~~	~~690~~	~~**1,270**~~	~~<60~~
SS14D	10/24/2023	1.25	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<47	<47	<60
~~SS15~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.050~~	~~<0.50~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~55~~	~~93~~	~~**148**~~	~~**<60**~~
~~SS15c~~	~~9/13/2023~~	~~0.75~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~96~~	~~140~~	~~**236**~~	~~<60~~
~~**SS15D**~~	~~10/24/2023~~	~~0.75~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.093~~	~~<0.093~~	~~<4.6~~	~~37~~	~~160~~	~~**197**~~	~~<60~~
SS15E	5/20/2024	1.5	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	38	120	**158**	<60
~~SS16~~	~~12/8/2022~~	~~0.5~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.097~~	~~<4.9~~	~~290~~	~~310~~	~~**600**~~	~~**<60**~~
SS16c	9/13/2023	0.75	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	13	<49	13	<60
SS17	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	17	<50	17	<59
~~SS18~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~290~~	~~310~~	~~**600**~~	~~**<60**~~
SS18c	9/13/2023	0.75	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	18	<47	18	<60
~~SS19~~	~~12/8/2022~~	~~0.5~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.099~~	~~<5.0~~	~~64~~	~~83~~	~~**147**~~	~~**<60**~~
~~SS19c~~	~~9/13/2023~~	~~0.75~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.096~~	~~<4.8~~	~~30~~	~~82~~	~~**112**~~	~~<60~~
SS19D	10/24/2023	1.25	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	13	<49	13	<60
~~SS20~~	~~12/8/2022~~	~~0.5~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~280~~	~~290~~	~~**570**~~	~~**<60**~~
SS20c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	15	<47	15	<60

Notes:

(1): Discrete delineation sample collected within composite area
bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
mg/kg: Milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil Range Organics
TPH: Total Petroleum Hydrocarbon
<: indicates result less than the stated laboratory reporting limit (RL)
*Concentrations in **bold** and shaded exceed the NMOCD Table I Closure Criteria for Soils Impacted by a Release*
~~Grey~~ text indicates soil sample removed during excavation activities

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TABLE 2
DELINEATION SOIL SAMPLE ANALYTICAL RESULTS
Seymour 6
Hilcorp Energy Company
San Juan County, New Mexico

Sample Designation	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)
NMOCD Closure Criteria for Soils Impacted by a Release			NE	**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
SS01d	9/13/2023	3.0	102.5	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	3,400	<490	**3,400**	<60
SS06A 1'	6/19/2023	1.0	3.8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	<60
SS06A 3'	6/19/2023	3.0	0.0	<0.024	<0.048	0.048	0.097	0.097	<4.8	<9.9	<49	<49	<60
SS08A 1'	6/19/2023	1.0	0.0	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	15	<46	15	<60
SS08A 3'	6/19/2023	3.0	0.0	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.8	<44	<44	<60
SS10A 1'	6/19/2023	1.0	0.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.9	<45	<45	<60
SS10A 3'	6/19/2023	3.0	0.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<47	<47	<60
SS11A 1'	6/19/2023	1.0	0.9	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.0	<45	<45	<60
SS11A 3'	6/19/2023	3.0	0.0	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	16	<45	16	<60
SS13 A 1'	6/19/2023	1.0	0.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.7	<43	<43	<60
SS13A 3'	6/19/2023	3.0	0.0	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	12	<45	12	140
SS14A 1'	6/19/2023	1.0	0.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	<60
SS14A 3'	6/19/2023	3.0	0.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<48	<48	<60
~~PH02@2.5'~~	~~10/24/2023~~	~~2.5~~	~~192.0~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.099~~	~~9.0~~	~~1,400~~	~~770~~	~~**2,179**~~	~~<60~~
~~PH02@5'~~	~~10/24/2023~~	~~5.0~~	~~3.0~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~230~~	~~400~~	~~**630**~~	~~<60~~
~~PH06@6~~	~~5/20/2024~~	~~6.0~~	~~383.7~~	~~<0.025~~	~~<0.050~~	~~0.31~~	~~3.9~~	~~4.21~~	~~81~~	~~15,000~~	~~8,600~~	~~**23,681**~~	<60
~~PH06@9~~	~~5/20/2024~~	~~9.0~~	~~283.5~~	~~0.028~~	~~0.10~~	~~0.25~~	~~3.0~~	~~3.38~~	~~52~~	~~9,100~~	~~6,600~~	~~**15,752**~~	<60
~~PH06@10~~	~~5/20/2024~~	~~10.0~~	~~6.0~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~340~~	~~580~~	~~**920**~~	<60
PH07@6	5/20/2024	6.0	0.2	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.1	<45	<45	<60
PH07@10	5/20/2024	10.0	0.2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	<60
~~PH08@3~~	~~5/20/2024~~	~~3.0~~	~~365.3~~	~~0.80~~	~~<0.50~~	~~6.7~~	~~81~~	~~**88.5**~~	~~810~~	~~9,600~~	~~6,200~~	~~**16,610**~~	<59
PH08@8	5/20/2024	8.0	1.4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.1	<45	<45	<60
~~PH09@3~~	~~5/20/2024~~	~~3.0~~	~~0.2~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.095~~	~~<4.8~~	~~700~~	~~1,400~~	~~**2,100**~~	<60
PH09@10	5/20/2024	10.0	0.1	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<44	<44	<60
PH10@3	5/20/2024	3.0	0.2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.7	<43	<43	<60
PH10@9	5/20/2024	9.0	0.7	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<49	<49	<60
PH11@3	5/20/2024	3.0	0.3	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.7	<44	<44	<60
PH11@10	5/20/2024	10.0	0.0	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<8.9	<45	<45	<60
HA01@3'	2/1/2024	3.0	0.0	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<48	<48	--
HA01@5'	2/1/2024	5.0	0.0	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.2	<46	<46	--
HA02@3'	2/1/2024	3.0	0.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<47	<47	--
HA02@5'	2/1/2024	5.0	0.0	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.1	<46	<46	--

ENSOLUM

TABLE 2
DELINEATION SOIL SAMPLE ANALYTICAL RESULTS
Seymour 6
Hilcorp Energy Company
San Juan County, New Mexico

Sample Designation	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)
NMOCD Closure Criteria for Soils Impacted by a Release			NE	**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
HA03@3'	2/1/2024	3.0	0.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	10	<47	10	--
HA03@5'	2/1/2024	5.0	0.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	37	<49	37	--
HA04@1	11/18/2024	1.0	1.2	<0.025	<0.025	<0.025	<0.05	<0.05	<20.0	88.6	479	**568**	<20.0
HA04@4	11/18/2024	4.0	1.3	<0.025	<0.025	<0.025	<0.05	<0.05	<20.0	<25.0	50.3	50.3	<20.0
HA05@1	11/18/2024	1.0	0.9	<0.025	<0.025	<0.025	<0.05	<0.05	<20.0	114	282	**396**	<20.0
HA05@4	11/18/2024	4.0	0.0	<0.025	<0.025	<0.025	<0.05	<0.05	<20.0	<25.0	<50.0	<50.0	<20.0
HA06@12'	12/11/2024	12	0.7	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	3,400	4,800	**8,200**	<60
HA06@13'	12/11/2024	13	0.2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	200	290	**490**	86.0
HA07@1'	12/11/2024	1.0	0.0	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	<60
HA08@1'	12/11/2024	1.0	0.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<46	<60

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
mg/kg: Milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
PID: Photoionization detector
ppm: Parts per million
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil Range Organics
TPH: Total Petroleum Hydrocarbon
--: not sampled
<: indicates result less than the stated laboratory reporting limit (RL)
*Concentrations in **bold** and shaded exceed the NMOCD Table I Closure Criteria for Soils Impacted by a Release*
~~Grey~~ text indicates soil sample removed during excavation activities

ENSOLUM

TABLE 3
HISTORICAL EXCAVATION CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS
Seymour 6
Hilcorp Energy Company
San Juan County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
Excavation Floor Confirmation Soil Samples												
FS01	11/6/2024	6 - 10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	620	721	**1,341**	<20.0
FS02	11/6/2024	4 - 10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	1,010	1,330	**2,340**	<20.0
FS03	11/6/2024	8 - 10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS04	11/6/2024	8 - 10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	468	647	**1,115**	<20.0
FS05	11/7/2024	3 - 5	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	25.5	<50.0	25.5	<20.0
FS06	11/7/2024	5 - 7	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	30.8	51.5	82.3	<20.0
FS07	11/7/2024	7	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS08	11/7/2024	7	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
~~FS09~~	~~11/7/2024~~	~~7 - 7.5~~	~~<0.0250~~	~~<0.0250~~	~~<0.0250~~	~~<0.0500~~	~~<0.0500~~	~~<20.0~~	~~190~~	~~257~~	~~**447**~~	~~<20.0~~
FS09A	11/18/2024	10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
~~FS10~~	~~11/7/2024~~	~~5 - 7~~	~~<0.0250~~	~~<0.0250~~	~~<0.0250~~	~~<0.0500~~	~~<0.0500~~	~~<20.0~~	~~98~~	~~144~~	~~**242**~~	~~<20.0~~
FS10A	11/18/2024	10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	241	402	**643**	<20.0
~~FS11~~	~~11/7/2024~~	~~3 - 5~~	~~<0.0250~~	~~<0.0250~~	~~<0.0250~~	~~<0.0500~~	~~<0.0500~~	~~<20.0~~	~~201~~	~~238~~	~~**439**~~	~~<20.0~~
FS11A	11/18/2024	7 - 10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
~~FS12~~	~~11/7/2024~~	~~1 - 3~~	~~<0.0250~~	~~<0.0250~~	~~<0.0250~~	~~<0.0500~~	~~<0.0500~~	~~<20.0~~	~~182~~	~~309~~	~~**491**~~	~~<20.0~~
FS12A	11/18/2024	5 - 7	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
Excavation Sidewall Confirmation Soil Samples												
SW01	11/6/2024	0 - 10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW02	11/6/2024	0 - 10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW03	11/6/2024	0 - 10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	25.5
SW04	11/6/2024	0 - 10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW05	11/6/2024	0-10	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
~~SW06~~	~~11/7/2024~~	~~0 - 3~~	~~<0.0250~~	~~<0.0250~~	~~<0.0250~~	~~<0.0500~~	~~<0.0500~~	~~<20.0~~	~~138~~	~~208~~	~~**346**~~	~~<20.0~~
SW06A	11/18/2024	0 - 5	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW07	11/7/2024	0 -7.5	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW08	11/7/2024	0 - 7.5	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW09	11/7/2024	3 - 5	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	336	389	**725**	<20.0
SW10	11/7/2024	1 - 3	<0.0250	<0.0250	<0.0250	0.204	0.204	<20.0	7,130	4,900	**12,030**	<20.0

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
DRO: Diesel Range Organics
GRO: Gasoline Range Organics
mg/kg: Milligrams per kilogram
MRO: Motor Oil Range Organics
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
TPH: Total Petroleum Hydrocarbon
<: indicates result less than the stated laboratory reporting limit (RL)
*Concentrations in **bold** and shaded exceed the NMOCD Table I Closure Criteria for Soils Impacted by a Release*
~~Grey~~ text indicates soil sample removed during excavation activities

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APPENDIX A

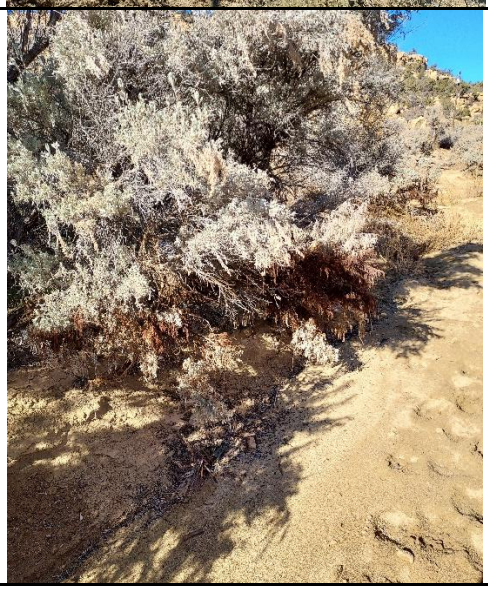
Site Photographs

SITE PHOTOGRAPHS
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1 View looking north at the impacted area on the well pad. Photo taken December 8, 2022.	
Photograph 2 View looking east at the eastern edge of the Seymour 6 well pad. Photo taken December 8, 2022.	

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
848 East 2nd Ave | Durango, CO 81301 | ensolum.com

SITE PHOTOGRAPHS
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 3 View looking south where release entered the dry wash. Photo taken December 8, 2022.		
Photograph 4 Impacted vegetation within the wash. Photo taken December 8, 2022.		

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848 East 2nd Ave | Durango, CO 81301 | ensolum.com

SITE PHOTOGRAPHS
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 5 View looking west around sampling area SS01 where release occurred. Photo taken September 13, 2023.	
Photograph 6 View of area WS01 looking north where the release flowed off of the well pad and into the adjacent wash. Photo taken September 13, 2023.	

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
848 East 2nd Ave | Durango, CO 81301 | ensolum.com

SITE PHOTOGRAPHS
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 7 View of well pad looking south after soils were removed to a depth of 0.5 feet. Photo taken September 13, 2023.	
Photograph 8 View looking north of potholes being advanced to delineate historical impacts discovered during shallow-soil excavation work. Photo taken October 24, 2023.	

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848 East 2nd Ave | Durango, CO 81301 | ensolum.com

SITE PHOTOGRAPHS
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 9 Excavation extent of recent release on October 24, 2023 looking southwest. Confirmation sample area SS13 was originally reported as being 3.5 feet in depth on October 24, 2023 (sample SS13D), however this photograph indicates that the maximum depths across the site were shallow and less than 2 feet. Sample SS13D was taken at an approximate depth of 1.25 feet below ground surface.	
Photograph 10 View of looking northeast of hydrovac truck removing additional soil from area SS15. Photo taken May 20, 2024.	

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SITE PHOTOGRAPHS
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 11 View looking northwest of pothole PH06 being advanced to further delineate historical impacts discovered during shallow-soil excavation work. Photo taken May 20, 2024.	
Photograph 12 View of final excavation extents removing historically impacted soil, view looking southwest. Photo taken November 18, 2024.	

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848 East 2nd Ave | Durango, CO 81301 | ensolum.com

SITE PHOTOGRAPHS
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 13 Due to safety concerns and sluffing excavation sidewalls, excavation activities were halted and the excavation was backfilled to protect Site equipment and facilities. View looking northwest. Photo taken November 18, 2024.	
Photograph 14 Hand auger boring HA06 advanced after the excavation was backfilled to vertically delineate remaining impacted soil, view of looking southwest. Photo taken December 11, 2024.	

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APPENDIX B

Laboratory Analytical Reports

eurofins | Environment Testing

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

February 09, 2024

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

RE: Seymour 6 OrderNo.: 2402082

Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 2/2/2024 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2402082**
Date Reported: **2/9/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: HA01@3'
Project: Seymour 6
Collection Date: 2/1/2024 10:50:00 AM
Lab ID: 2402082-001 **Matrix:** SOIL **Received Date:** 2/2/2024 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/5/2024 3:42:43 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2024 3:42:43 PM
Surr: DNOP	86.3	61.2-134		%Rec	1	2/5/2024 3:42:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2024 3:41:00 AM
Surr: BFB	111	15-244		%Rec	1	2/7/2024 3:41:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/7/2024 3:41:00 AM
Toluene	ND	0.050		mg/Kg	1	2/7/2024 3:41:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2024 3:41:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/7/2024 3:41:00 AM
Surr: 4-Bromofluorobenzene	98.0	39.1-146		%Rec	1	2/7/2024 3:41:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2402082**
Date Reported: **2/9/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: HA01@5'
Project: Seymour 6
Collection Date: 2/1/2024 10:54:00 AM
Lab ID: 2402082-002 **Matrix:** SOIL **Received Date:** 2/2/2024 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/5/2024 3:54:54 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/5/2024 3:54:54 PM
Surr: DNOP	89.1	61.2-134		%Rec	1	2/5/2024 3:54:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2024 4:03:00 AM
Surr: BFB	105	15-244		%Rec	1	2/7/2024 4:03:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/7/2024 4:03:00 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2024 4:03:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2024 4:03:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2024 4:03:00 AM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	2/7/2024 4:03:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2402082**
Date Reported: **2/9/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: HA02@3'
Project: Seymour 6
Collection Date: 2/1/2024 11:17:00 AM
Lab ID: 2402082-003 **Matrix:** SOIL **Received Date:** 2/2/2024 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/5/2024 4:19:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/5/2024 4:19:05 PM
Surr: DNOP	92.9	61.2-134		%Rec	1	2/5/2024 4:19:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2024 4:25:00 AM
Surr: BFB	108	15-244		%Rec	1	2/7/2024 4:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/7/2024 4:25:00 AM
Toluene	ND	0.048		mg/Kg	1	2/7/2024 4:25:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2024 4:25:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/7/2024 4:25:00 AM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	2/7/2024 4:25:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2402082**
Date Reported: **2/9/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: HA02@5'
Project: Seymour 6
Collection Date: 2/1/2024 11:23:00 AM
Lab ID: 2402082-004 **Matrix:** SOIL **Received Date:** 2/2/2024 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/5/2024 4:31:05 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/5/2024 4:31:05 PM
Surr: DNOP	93.2	61.2-134		%Rec	1	2/5/2024 4:31:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2024 4:47:00 AM
Surr: BFB	104	15-244		%Rec	1	2/7/2024 4:47:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/7/2024 4:47:00 AM
Toluene	ND	0.050		mg/Kg	1	2/7/2024 4:47:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2024 4:47:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/7/2024 4:47:00 AM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	2/7/2024 4:47:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2402082**
Date Reported: **2/9/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: HA03@3'
Project: Seymour 6
Collection Date: 2/1/2024 11:35:00 AM
Lab ID: 2402082-005 **Matrix:** SOIL **Received Date:** 2/2/2024 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	10	9.4		mg/Kg	1	2/5/2024 4:43:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/5/2024 4:43:11 PM
Surr: DNOP	102	61.2-134		%Rec	1	2/5/2024 4:43:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2024 5:09:00 AM
Surr: BFB	104	15-244		%Rec	1	2/7/2024 5:09:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/7/2024 5:09:00 AM
Toluene	ND	0.050		mg/Kg	1	2/7/2024 5:09:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2024 5:09:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/7/2024 5:09:00 AM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	2/7/2024 5:09:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2402082**
Date Reported: **2/9/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: HA03@5'
Project: Seymour 6
Collection Date: 2/1/2024 11:47:00 AM
Lab ID: 2402082-006 **Matrix:** SOIL **Received Date:** 2/2/2024 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	37	9.7		mg/Kg	1	2/5/2024 4:55:09 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2024 4:55:09 PM
Surr: DNOP	89.0	61.2-134		%Rec	1	2/5/2024 4:55:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2024 5:31:00 AM
Surr: BFB	104	15-244		%Rec	1	2/7/2024 5:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/7/2024 5:31:00 AM
Toluene	ND	0.048		mg/Kg	1	2/7/2024 5:31:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2024 5:31:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/7/2024 5:31:00 AM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	2/7/2024 5:31:00 AM

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402082**

09-Feb-24

Client: HILCORP ENERGY

Project: Seymour 6

Sample ID: **LCS-80234**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **80234**	RunNo: **102868**
Prep Date: **2/2/2024**	Analysis Date: **2/5/2024**	SeqNo: **3800879** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	79.6	59.7	135			
Surr: DNOP	4.3		5.000		86.3	61.2	134			

Sample ID: **MB-80234**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **80234**	RunNo: **102868**
Prep Date: **2/2/2024**	Analysis Date: **2/5/2024**	SeqNo: **3801344** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.7	61.2	134			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402082**

09-Feb-24

Client: HILCORP ENERGY

Project: Seymour 6

Sample ID: **lcs-80229**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **80229**	RunNo: **102909**
Prep Date: **2/2/2024**	Analysis Date: **2/6/2024**	SeqNo: **3802679** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	70	130			
Surr: BFB	2200		1000		215	15	244			

Sample ID: **mb-80229**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **80229**	RunNo: **102909**
Prep Date: **2/2/2024**	Analysis Date: **2/6/2024**	SeqNo: **3802680** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	15	244			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402082**

09-Feb-24

Client: HILCORP ENERGY

Project: Seymour 6

Sample ID: **lcs-80229**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **80229**	RunNo: **102909**
Prep Date: **2/2/2024**	Analysis Date: **2/6/2024**	SeqNo: **3803025** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.6	70	130			
Toluene	0.90	0.050	1.000	0	89.9	70	130			
Ethylbenzene	0.91	0.050	1.000	0	91.4	70	130			
Xylenes, Total	2.8	0.10	3.000	0	91.9	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	39.1	146			

Sample ID: **mb-80229**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **80229**	RunNo: **102909**
Prep Date: **2/2/2024**	Analysis Date: **2/6/2024**	SeqNo: **3803026** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	39.1	146			

Qualifiers:

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

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

Sample Log-In Check List

Client Name: HILCORP ENERGY Work Order Number: 2402082 RcptNo: 1

Received By: Tracy Casarrubias 2/2/2024 6:30:00 AM

Completed By: Tracy Casarrubias 2/2/2024 7:19:37 AM

Reviewed By: TM 2/2/24

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: TM 2/2/24

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

Mailing address,phone number and Email/Fax are missing on COC - TMC 2/2/24

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes	Morty		

Chain-of-Custody Record

Client: Hilcorp attn: Kate Kaufman
kkaufman@hilcorp.com

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard 5 day ☐ Rush

Project Name:
Seymour 6

Project #:

Project Manager: Stuart Hyde
shyde@ensolum.com

Sampler: Zach Myers

On Ice: ☑ Yes ☐ No morty

# of Coolers: 1

Cooler Temp(including CF): 1.7 ±0 = 1.7 (°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. 2402082	BTEX / ~~MTBE~~ / ~~TMBs~~ (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_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
2-1-24	1050	soil	HA01@3'	4oz jar	cool	001	✓	✓								
	1054		HA01@5'			002	✓	✓								
	1117		HA02@3'			003	✓	✓								
	1123		HA02@5'			004	✓	✓								
	1135		HA03@3'			005	✓	✓								
	1147		HA03@5'			006	✓	✓								

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/1/24	1405				2/1/24	1405
2/1/24	1719			courier	2/2/24	6:30

Remarks:
cc:
zmyers@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.

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Seymour 6

JOB NUMBER

885-4829-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

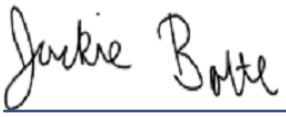
See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization



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Authorized for release by
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Designee for
Andy Freeman, Business Unit Manager
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(505)345-3975

Client: Hilcorp Energy
Project/Site: Seymour 6

Laboratory Job ID: 885-4829-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

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: Seymour 6

Job ID: 885-4829-1

Job ID: 885-4829-1 Eurofins Albuquerque

Job Narrative
885-4829-1

REVISION

The report being provided is a revision of the original report sent on 6/7/2024. The report (revision 1) is being revised due to Sample for -2 changed from "SS1SE" to "SS15E"..

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

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

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

Receipt
The samples were received on 5/21/2024 7:25 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 2.5°C.

Gasoline Range Organics
Method 8015D_GRO: Internal standard responses were outside of acceptance limits for the following samples: PH06@9 (885-4829-4) and PH08@3 (885-4829-8). The sample(s) shows evidence of matrix interference.

Method 8015D_GRO: Internal standard responses were outside of acceptance limits for the following sample: PH06@6 (885-4829-3). The sample(s) shows evidence of matrix interference.

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 samples were diluted due to the nature of the sample matrix and abundance of target analytes OR abundance of non-target analytes: PH06@6 (885-4829-3), PH06@9 (885-4829-4), PH06@10 (885-4829-5) and PH08@3 (885-4829-8). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-5576 and analytical batch 885-5629 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-5576 and analytical batch 885-5735 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix and abundance of target analytes: PH09@3 (885-4829-11). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-5735 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Samples will still be reported that are within the normal range for Di-n-octyl phthalate (Surr) .The following sample is associated (CCV 885-5735/8).

Case Narrative

Client: Hilcorp Energy
Project: Seymour 6

Job ID: 885-4829-1

Job ID: 885-4829-1 (Continued) Eurofins Albuquerque

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.

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: SS03E
Date Collected: 05/20/24 10:00
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		05/21/24 14:26	05/25/24 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/21/24 14:26*	*05/25/24 11:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 14:26	05/25/24 11:41	1
Ethylbenzene	ND		0.047		mg/Kg		05/21/24 14:26	05/25/24 11:41	1
Toluene	ND		0.047		mg/Kg		05/21/24 14:26	05/25/24 11:41	1
Xylenes, Total	ND		0.094		mg/Kg		05/21/24 14:26	05/25/24 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/21/24 14:26*	*05/25/24 11:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**30**		8.9		mg/Kg		05/22/24 14:43	05/23/24 17:00	1
Motor Oil Range Organics [C28-C40]	**55**		45		mg/Kg		05/22/24 14:43	05/23/24 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*05/22/24 14:43*	*05/23/24 17:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90**		60		mg/Kg		05/23/24 07:13	05/23/24 13:39	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: SS15E
Date Collected: 05/20/24 11:00
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		05/21/24 14:26	05/25/24 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/21/24 14:26*	*05/25/24 12:04*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 14:26	05/25/24 12:04	1
Ethylbenzene	ND		0.047		mg/Kg		05/21/24 14:26	05/25/24 12:04	1
Toluene	ND		0.047		mg/Kg		05/21/24 14:26	05/25/24 12:04	1
Xylenes, Total	ND		0.095		mg/Kg		05/21/24 14:26	05/25/24 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/21/24 14:26*	*05/25/24 12:04*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**38**		8.9		mg/Kg		05/22/24 14:43	05/23/24 17:11	1
Motor Oil Range Organics [C28-C40]	**120**		44		mg/Kg		05/22/24 14:43	05/23/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*05/22/24 14:43*	*05/23/24 17:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/23/24 07:13	05/23/24 13:51	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH06@6

Date Collected: 05/20/24 11:40
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**81**		5.0		mg/Kg		05/21/24 14:26	05/28/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*541*	*S1+*	*35 - 166*	*05/21/24 14:26*	*05/28/24 14:00*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 14:26	05/28/24 14:00	1
Ethylbenzene	**0.31**		0.050		mg/Kg		05/21/24 14:26	05/28/24 14:00	1
Toluene	ND		0.050		mg/Kg		05/21/24 14:26	05/28/24 14:00	1
Xylenes, Total	**3.9**		0.10		mg/Kg		05/21/24 14:26	05/28/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*	*05/21/24 14:26*	*05/28/24 14:00*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15000**		190		mg/Kg		05/22/24 14:43	05/23/24 12:55	20
Motor Oil Range Organics [C28-C40]	**8600**		970		mg/Kg		05/22/24 14:43	05/23/24 12:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*05/22/24 14:43*	*05/23/24 12:55*	*20*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/23/24 07:13	05/23/24 14:28	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH06@9

Date Collected: 05/20/24 11:42
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	52		5.0		mg/Kg		05/21/24 14:26	05/25/24 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*284*	*S1+*	*35 - 166*	*05/21/24 14:26*	*05/25/24 12:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.028		0.025		mg/Kg		05/21/24 14:26	05/25/24 12:51	1
Ethylbenzene	0.25		0.050		mg/Kg		05/21/24 14:26	05/25/24 12:51	1
Toluene	0.10		0.050		mg/Kg		05/21/24 14:26	05/25/24 12:51	1
Xylenes, Total	3.0		0.10		mg/Kg		05/21/24 14:26	05/25/24 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*05/21/24 14:26*	*05/25/24 12:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9100		180		mg/Kg		05/22/24 14:43	05/23/24 13:06	20
Motor Oil Range Organics [C28-C40]	6600		920		mg/Kg		05/22/24 14:43	05/23/24 13:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*36*	*S1- D*	*62 - 134*	*05/22/24 14:43*	*05/23/24 13:06*	*20*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/23/24 07:13	05/23/24 14:41	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH06@10
Date Collected: 05/20/24 11:44
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		05/21/24 14:26	05/25/24 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*05/21/24 14:26*	*05/25/24 13:38*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 14:26	05/25/24 13:38	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 14:26	05/25/24 13:38	1
Toluene	ND		0.050		mg/Kg		05/21/24 14:26	05/25/24 13:38	1
Xylenes, Total	ND		0.10		mg/Kg		05/21/24 14:26	05/25/24 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/21/24 14:26*	*05/25/24 13:38*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**340**		9.0		mg/Kg		05/22/24 14:43	05/23/24 14:21	1
Motor Oil Range Organics [C28-C40]	**580**		45		mg/Kg		05/22/24 14:43	05/23/24 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*117*		*62 - 134*	*05/22/24 14:43*	*05/23/24 14:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/23/24 07:13	05/23/24 14:53	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH07@6
Date Collected: 05/20/24 12:08
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		05/21/24 14:26	05/25/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/21/24 14:26*	*05/25/24 14:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 14:26	05/25/24 14:02	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 14:26	05/25/24 14:02	1
Toluene	ND		0.048		mg/Kg		05/21/24 14:26	05/25/24 14:02	1
Xylenes, Total	ND		0.095		mg/Kg		05/21/24 14:26	05/25/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/21/24 14:26*	*05/25/24 14:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		05/22/24 14:43	05/23/24 17:22	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/22/24 14:43	05/23/24 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*05/22/24 14:43*	*05/23/24 17:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/23/24 07:13	05/23/24 15:05	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH07@10
Date Collected: 05/20/24 12:10
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		05/21/24 14:26	05/25/24 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/21/24 14:26*	*05/25/24 14:25*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 14:26	05/25/24 14:25	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 14:26	05/25/24 14:25	1
Toluene	ND		0.049		mg/Kg		05/21/24 14:26	05/25/24 14:25	1
Xylenes, Total	ND		0.098		mg/Kg		05/21/24 14:26	05/25/24 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/21/24 14:26*	*05/25/24 14:25*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		05/22/24 14:43	05/23/24 17:33	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/22/24 14:43	05/23/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*112*		*62 - 134*	*05/22/24 14:43*	*05/23/24 17:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/23/24 07:13	05/23/24 15:18	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH08@3
Date Collected: 05/20/24 13:10
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	810		50		mg/Kg		05/21/24 14:26	05/25/24 14:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*400*	*S1+*	*35 - 166*	*05/21/24 14:26*	*05/25/24 14:49*	*10*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.80		0.25		mg/Kg		05/21/24 14:26	05/25/24 14:49	10
Ethylbenzene	6.7		0.50		mg/Kg		05/21/24 14:26	05/25/24 14:49	10
Toluene	ND		0.50		mg/Kg		05/21/24 14:26	05/25/24 14:49	10
Xylenes, Total	81		1.0		mg/Kg		05/21/24 14:26	05/25/24 14:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*48 - 145*	*05/21/24 14:26*	*05/25/24 14:49*	*10*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9600		190		mg/Kg		05/22/24 14:43	05/23/24 13:38	20
Motor Oil Range Organics [C28-C40]	6200		960		mg/Kg		05/22/24 14:43	05/23/24 13:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*05/22/24 14:43*	*05/23/24 13:38*	*20*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59		mg/Kg		05/23/24 07:13	05/23/24 15:55	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH08@8
Date Collected: 05/20/24 13:14
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		05/22/24 08:45	05/28/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*05/22/24 08:45*	*05/28/24 18:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/22/24 08:45	05/28/24 18:41	1
Ethylbenzene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 18:41	1
Toluene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 18:41	1
Xylenes, Total	ND		0.097		mg/Kg		05/22/24 08:45	05/28/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/22/24 08:45*	*05/28/24 18:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		05/23/24 14:41	05/24/24 11:26	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/23/24 14:41	05/24/24 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*05/23/24 14:41*	*05/24/24 11:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/24/24 14:04	05/24/24 20:48	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH09@3

Date Collected: 05/20/24 13:47
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		05/22/24 08:45	05/28/24 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*05/22/24 08:45*	*05/28/24 19:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/22/24 08:45	05/28/24 19:51	1
Ethylbenzene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 19:51	1
Toluene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 19:51	1
Xylenes, Total	ND		0.095		mg/Kg		05/22/24 08:45	05/28/24 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*48 - 145*	*05/22/24 08:45*	*05/28/24 19:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**700**		87		mg/Kg		05/23/24 14:41	05/28/24 13:49	10
Motor Oil Range Organics [C28-C40]	**1400**		430		mg/Kg		05/23/24 14:41	05/28/24 13:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*05/23/24 14:41*	*05/28/24 13:49*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/24/24 14:04	05/24/24 21:03	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH09@10
Date Collected: 05/20/24 13:45
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		05/22/24 08:45	05/28/24 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*05/22/24 08:45*	*05/28/24 21:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/22/24 08:45	05/28/24 21:01	1
Ethylbenzene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 21:01	1
Toluene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 21:01	1
Xylenes, Total	ND		0.096		mg/Kg		05/22/24 08:45	05/28/24 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/22/24 08:45*	*05/28/24 21:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		05/23/24 14:41	05/24/24 12:08	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		05/23/24 14:41	05/24/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*05/23/24 14:41*	*05/24/24 12:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/24/24 14:04	05/24/24 21:18	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH10@3
Date Collected: 05/20/24 14:50
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		05/22/24 08:45	05/28/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*05/22/24 08:45*	*05/28/24 21:48*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/22/24 08:45	05/28/24 21:48	1
Ethylbenzene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 21:48	1
Toluene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 21:48	1
Xylenes, Total	ND		0.096		mg/Kg		05/22/24 08:45	05/28/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/22/24 08:45*	*05/28/24 21:48*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7		mg/Kg		05/23/24 14:41	05/24/24 12:19	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/23/24 14:41	05/24/24 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*05/23/24 14:41*	*05/24/24 12:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/24/24 14:04	05/24/24 21:34	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH10@9
Date Collected: 05/20/24 14:52
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		05/22/24 08:45	05/28/24 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*05/22/24 08:45*	*05/28/24 22:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		05/22/24 08:45	05/28/24 22:12	1
Ethylbenzene	ND		0.047		mg/Kg		05/22/24 08:45	05/28/24 22:12	1
Toluene	ND		0.047		mg/Kg		05/22/24 08:45	05/28/24 22:12	1
Xylenes, Total	ND		0.093		mg/Kg		05/22/24 08:45	05/28/24 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/22/24 08:45*	*05/28/24 22:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/23/24 14:41	05/24/24 12:30	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/23/24 14:41	05/24/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*05/23/24 14:41*	*05/24/24 12:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/24/24 14:04	05/24/24 21:49	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH11@3
Date Collected: 05/20/24 14:54
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		05/22/24 08:45	05/28/24 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*05/22/24 08:45*	*05/28/24 22:58*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/22/24 08:45	05/28/24 22:58	1
Ethylbenzene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 22:58	1
Toluene	ND		0.048		mg/Kg		05/22/24 08:45	05/28/24 22:58	1
Xylenes, Total	ND		0.096		mg/Kg		05/22/24 08:45	05/28/24 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/22/24 08:45*	*05/28/24 22:58*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7		mg/Kg		05/23/24 14:41	05/24/24 12:40	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		05/23/24 14:41	05/24/24 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*05/23/24 14:41*	*05/24/24 12:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/24/24 14:04	05/24/24 22:04	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH11@10
Date Collected: 05/20/24 14:56
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		05/22/24 08:45	05/28/24 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*05/22/24 08:45*	*05/28/24 23:22*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		05/22/24 08:45	05/28/24 23:22	1
Ethylbenzene	ND		0.047		mg/Kg		05/22/24 08:45	05/28/24 23:22	1
Toluene	ND		0.047		mg/Kg		05/22/24 08:45	05/28/24 23:22	1
Xylenes, Total	ND		0.094		mg/Kg		05/22/24 08:45	05/28/24 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/22/24 08:45*	*05/28/24 23:22*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		05/23/24 14:41	05/24/24 12:51	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/23/24 14:41	05/24/24 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*05/23/24 14:41*	*05/24/24 12:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/24/24 14:04	05/24/24 22:19	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

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

Lab Sample ID: MB 885-5378/1-A
Matrix: Solid
Analysis Batch: 5644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5378

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		05/21/24 14:26	05/25/24 04:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/21/24 14:26*	*05/25/24 04:15*	*1*

Lab Sample ID: LCS 885-5378/2-A
Matrix: Solid
Analysis Batch: 5644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5378

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	22.2		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*191*	*S1+*	*35 - 166*

Lab Sample ID: MB 885-5422/1-A
Matrix: Solid
Analysis Batch: 5727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5422

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		05/22/24 08:45	05/28/24 18:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*05/22/24 08:45*	*05/28/24 18:18*	*1*

Lab Sample ID: LCS 885-5422/2-A
Matrix: Solid
Analysis Batch: 5727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5422

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	25.2		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*206*	*S1+*	*35 - 166*

Lab Sample ID: 885-4829-9 MS
Matrix: Solid
Analysis Batch: 5727

Client Sample ID: PH08@8
Prep Type: Total/NA
Prep Batch: 5422

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		24.9	23.0		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*193*	*S1+*	*35 - 166*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

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

Lab Sample ID: 885-4829-9 MSD
Matrix: Solid
Analysis Batch: 5727

Client Sample ID: PH08@8
Prep Type: Total/NA
Prep Batch: 5422

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		25.0	23.2		mg/Kg		93	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*196*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-5378/1-A
Matrix: Solid
Analysis Batch: 5645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5378

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 14:26	05/25/24 04:15	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 14:26	05/25/24 04:15	1
Toluene	ND		0.050		mg/Kg		05/21/24 14:26	05/25/24 04:15	1
Xylenes, Total	ND		0.10		mg/Kg		05/21/24 14:26	05/25/24 04:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/21/24 14:26*	*05/25/24 04:15*	*1*

Lab Sample ID: LCS 885-5378/3-A
Matrix: Solid
Analysis Batch: 5645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5378

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.875		mg/Kg		87	70 - 130		
Ethylbenzene			1.00	0.841		mg/Kg		84	70 - 130		
m&p-Xylene			2.00	1.70		mg/Kg		85	70 - 130		
o-Xylene			1.00	0.828		mg/Kg		83	70 - 130		
Toluene			1.00	0.832		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*

Lab Sample ID: MB 885-5422/1-A
Matrix: Solid
Analysis Batch: 5728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5422

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/22/24 08:45	05/28/24 18:18	1
Ethylbenzene	ND		0.050		mg/Kg		05/22/24 08:45	05/28/24 18:18	1
Toluene	ND		0.050		mg/Kg		05/22/24 08:45	05/28/24 18:18	1
Xylenes, Total	ND		0.10		mg/Kg		05/22/24 08:45	05/28/24 18:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/22/24 08:45*	*05/28/24 18:18*	*1*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

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

Lab Sample ID: LCS 885-5422/3-A
Matrix: Solid
Analysis Batch: 5728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5422

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.888		mg/Kg		89	70 - 130		
Ethylbenzene			1.00	0.844		mg/Kg		84	70 - 130		
m&p-Xylene			2.00	1.71		mg/Kg		86	70 - 130		
o-Xylene			1.00	0.830		mg/Kg		83	70 - 130		
Toluene			1.00	0.844		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*

Lab Sample ID: 885-4829-11 MS
Matrix: Solid
Analysis Batch: 5728

Client Sample ID: PH09@3
Prep Type: Total/NA
Prep Batch: 5422

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.951	0.803		mg/Kg		84	70 - 130		
Ethylbenzene	ND		0.951	0.732		mg/Kg		77	70 - 130		
m&p-Xylene	ND		1.90	1.47		mg/Kg		76	70 - 130		
o-Xylene	ND		0.951	0.715		mg/Kg		75	70 - 130		
Toluene	ND		0.951	0.744		mg/Kg		77	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*

Lab Sample ID: 885-4829-11 MSD
Matrix: Solid
Analysis Batch: 5728

Client Sample ID: PH09@3
Prep Type: Total/NA
Prep Batch: 5422

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.945	0.791		mg/Kg		84	70 - 130	1	20
Ethylbenzene	ND		0.945	0.731		mg/Kg		77	70 - 130	0	20
m&p-Xylene	ND		1.89	1.48		mg/Kg		77	70 - 130	0	20
o-Xylene	ND		0.945	0.716		mg/Kg		76	70 - 130	0	20
Toluene	ND		0.945	0.737		mg/Kg		77	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*

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

Lab Sample ID: MB 885-5470/1-A
Matrix: Solid
Analysis Batch: 5621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5470

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/22/24 14:43	05/23/24 12:34	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/22/24 14:43	05/23/24 12:34	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

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

Lab Sample ID: MB 885-5470/1-A
Matrix: Solid
Analysis Batch: 5621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5470

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134	05/22/24 14:43	05/23/24 12:34	1

Lab Sample ID: LCS 885-5470/2-A
Matrix: Solid
Analysis Batch: 5621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5470

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	50.4		mg/Kg		101	60 - 135		

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

Lab Sample ID: MB 885-5576/1-A
Matrix: Solid
Analysis Batch: 5629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5576

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/23/24 14:41	05/24/24 11:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/23/24 14:41	05/24/24 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134	05/23/24 14:41	05/24/24 11:05	1

Lab Sample ID: LCS 885-5576/2-A
Matrix: Solid
Analysis Batch: 5629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5576

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	56.1		mg/Kg		112	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	109		62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-5491/1-A
Matrix: Solid
Analysis Batch: 5610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5491

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		05/23/24 07:13	05/23/24 07:55	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-5491/2-A
Matrix: Solid
Analysis Batch: 5610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	27.6		mg/Kg		92	90 - 110

Lab Sample ID: MB 885-5639/1-A
Matrix: Solid
Analysis Batch: 5663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5639

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		05/24/24 14:04	05/24/24 20:18	1

Lab Sample ID: LCS 885-5639/2-A
Matrix: Solid
Analysis Batch: 5663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.7		mg/Kg		98	90 - 110

Lab Sample ID: MB 885-5663/4
Matrix: Solid
Analysis Batch: 5663

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			05/24/24 11:12	1

Lab Sample ID: MRL 885-5663/3
Matrix: Solid
Analysis Batch: 5663

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.534		mg/L		107	50 - 150

QC Association Summary

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

GC VOA

Prep Batch: 5378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-1	SS03E	Total/NA	Solid	5030C	
885-4829-2	SS15E	Total/NA	Solid	5030C	
885-4829-3	PH06@6	Total/NA	Solid	5030C	
885-4829-4	PH06@9	Total/NA	Solid	5030C	
885-4829-5	PH06@10	Total/NA	Solid	5030C	
885-4829-6	PH07@6	Total/NA	Solid	5030C	
885-4829-7	PH07@10	Total/NA	Solid	5030C	
885-4829-8	PH08@3	Total/NA	Solid	5030C	
MB 885-5378/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5378/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5378/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 5422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-9	PH08@8	Total/NA	Solid	5030C	
885-4829-11	PH09@3	Total/NA	Solid	5030C	
885-4829-12	PH09@10	Total/NA	Solid	5030C	
885-4829-13	PH10@3	Total/NA	Solid	5030C	
885-4829-14	PH10@9	Total/NA	Solid	5030C	
885-4829-15	PH11@3	Total/NA	Solid	5030C	
885-4829-16	PH11@10	Total/NA	Solid	5030C	
MB 885-5422/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5422/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5422/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-4829-9 MS	PH08@8	Total/NA	Solid	5030C	
885-4829-9 MSD	PH08@8	Total/NA	Solid	5030C	
885-4829-11 MS	PH09@3	Total/NA	Solid	5030C	
885-4829-11 MSD	PH09@3	Total/NA	Solid	5030C	

Analysis Batch: 5644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-1	SS03E	Total/NA	Solid	8015D	5378
885-4829-2	SS15E	Total/NA	Solid	8015D	5378
885-4829-4	PH06@9	Total/NA	Solid	8015D	5378
885-4829-5	PH06@10	Total/NA	Solid	8015D	5378
885-4829-6	PH07@6	Total/NA	Solid	8015D	5378
885-4829-7	PH07@10	Total/NA	Solid	8015D	5378
885-4829-8	PH08@3	Total/NA	Solid	8015D	5378
MB 885-5378/1-A	Method Blank	Total/NA	Solid	8015D	5378
LCS 885-5378/2-A	Lab Control Sample	Total/NA	Solid	8015D	5378

Analysis Batch: 5645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-1	SS03E	Total/NA	Solid	8021B	5378
885-4829-2	SS15E	Total/NA	Solid	8021B	5378
885-4829-4	PH06@9	Total/NA	Solid	8021B	5378
885-4829-5	PH06@10	Total/NA	Solid	8021B	5378
885-4829-6	PH07@6	Total/NA	Solid	8021B	5378
885-4829-7	PH07@10	Total/NA	Solid	8021B	5378
885-4829-8	PH08@3	Total/NA	Solid	8021B	5378
MB 885-5378/1-A	Method Blank	Total/NA	Solid	8021B	5378

QC Association Summary

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

GC VOA (Continued)

Analysis Batch: 5645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-5378/3-A	Lab Control Sample	Total/NA	Solid	8021B	5378

Analysis Batch: 5727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-3	PH06@6	Total/NA	Solid	8015D	5378
885-4829-9	PH08@8	Total/NA	Solid	8015D	5422
885-4829-11	PH09@3	Total/NA	Solid	8015D	5422
885-4829-12	PH09@10	Total/NA	Solid	8015D	5422
885-4829-13	PH10@3	Total/NA	Solid	8015D	5422
885-4829-14	PH10@9	Total/NA	Solid	8015D	5422
885-4829-15	PH11@3	Total/NA	Solid	8015D	5422
885-4829-16	PH11@10	Total/NA	Solid	8015D	5422
MB 885-5422/1-A	Method Blank	Total/NA	Solid	8015D	5422
LCS 885-5422/2-A	Lab Control Sample	Total/NA	Solid	8015D	5422
885-4829-9 MS	PH08@8	Total/NA	Solid	8015D	5422
885-4829-9 MSD	PH08@8	Total/NA	Solid	8015D	5422

Analysis Batch: 5728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-3	PH06@6	Total/NA	Solid	8021B	5378
885-4829-9	PH08@8	Total/NA	Solid	8021B	5422
885-4829-11	PH09@3	Total/NA	Solid	8021B	5422
885-4829-12	PH09@10	Total/NA	Solid	8021B	5422
885-4829-13	PH10@3	Total/NA	Solid	8021B	5422
885-4829-14	PH10@9	Total/NA	Solid	8021B	5422
885-4829-15	PH11@3	Total/NA	Solid	8021B	5422
885-4829-16	PH11@10	Total/NA	Solid	8021B	5422
MB 885-5422/1-A	Method Blank	Total/NA	Solid	8021B	5422
LCS 885-5422/3-A	Lab Control Sample	Total/NA	Solid	8021B	5422
885-4829-11 MS	PH09@3	Total/NA	Solid	8021B	5422
885-4829-11 MSD	PH09@3	Total/NA	Solid	8021B	5422

GC Semi VOA

Prep Batch: 5470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-1	SS03E	Total/NA	Solid	SHAKE	
885-4829-2	SS15E	Total/NA	Solid	SHAKE	
885-4829-3	PH06@6	Total/NA	Solid	SHAKE	
885-4829-4	PH06@9	Total/NA	Solid	SHAKE	
885-4829-5	PH06@10	Total/NA	Solid	SHAKE	
885-4829-6	PH07@6	Total/NA	Solid	SHAKE	
885-4829-7	PH07@10	Total/NA	Solid	SHAKE	
885-4829-8	PH08@3	Total/NA	Solid	SHAKE	
MB 885-5470/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5470/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 5576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-9	PH08@8	Total/NA	Solid	SHAKE	
885-4829-11	PH09@3	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

GC Semi VOA (Continued)

Prep Batch: 5576 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-12	PH09@10	Total/NA	Solid	SHAKE	
885-4829-13	PH10@3	Total/NA	Solid	SHAKE	
885-4829-14	PH10@9	Total/NA	Solid	SHAKE	
885-4829-15	PH11@3	Total/NA	Solid	SHAKE	
885-4829-16	PH11@10	Total/NA	Solid	SHAKE	
MB 885-5576/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5576/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 5621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-1	SS03E	Total/NA	Solid	8015D	5470
885-4829-2	SS15E	Total/NA	Solid	8015D	5470
885-4829-3	PH06@6	Total/NA	Solid	8015D	5470
885-4829-4	PH06@9	Total/NA	Solid	8015D	5470
885-4829-5	PH06@10	Total/NA	Solid	8015D	5470
885-4829-6	PH07@6	Total/NA	Solid	8015D	5470
885-4829-7	PH07@10	Total/NA	Solid	8015D	5470
885-4829-8	PH08@3	Total/NA	Solid	8015D	5470
MB 885-5470/1-A	Method Blank	Total/NA	Solid	8015D	5470
LCS 885-5470/2-A	Lab Control Sample	Total/NA	Solid	8015D	5470

Analysis Batch: 5629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-9	PH08@8	Total/NA	Solid	8015D	5576
885-4829-12	PH09@10	Total/NA	Solid	8015D	5576
885-4829-13	PH10@3	Total/NA	Solid	8015D	5576
885-4829-14	PH10@9	Total/NA	Solid	8015D	5576
885-4829-15	PH11@3	Total/NA	Solid	8015D	5576
885-4829-16	PH11@10	Total/NA	Solid	8015D	5576
MB 885-5576/1-A	Method Blank	Total/NA	Solid	8015D	5576
LCS 885-5576/2-A	Lab Control Sample	Total/NA	Solid	8015D	5576

Analysis Batch: 5735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-11	PH09@3	Total/NA	Solid	8015D	5576

HPLC/IC

Prep Batch: 5491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-1	SS03E	Total/NA	Solid	300_Prep	
885-4829-2	SS15E	Total/NA	Solid	300_Prep	
885-4829-3	PH06@6	Total/NA	Solid	300_Prep	
885-4829-4	PH06@9	Total/NA	Solid	300_Prep	
885-4829-5	PH06@10	Total/NA	Solid	300_Prep	
885-4829-6	PH07@6	Total/NA	Solid	300_Prep	
885-4829-7	PH07@10	Total/NA	Solid	300_Prep	
885-4829-8	PH08@3	Total/NA	Solid	300_Prep	
MB 885-5491/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5491/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

HPLC/IC

Analysis Batch: 5610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-1	SS03E	Total/NA	Solid	300.0	5491
885-4829-2	SS15E	Total/NA	Solid	300.0	5491
885-4829-3	PH06@6	Total/NA	Solid	300.0	5491
885-4829-4	PH06@9	Total/NA	Solid	300.0	5491
885-4829-5	PH06@10	Total/NA	Solid	300.0	5491
885-4829-6	PH07@6	Total/NA	Solid	300.0	5491
885-4829-7	PH07@10	Total/NA	Solid	300.0	5491
885-4829-8	PH08@3	Total/NA	Solid	300.0	5491
MB 885-5491/1-A	Method Blank	Total/NA	Solid	300.0	5491
LCS 885-5491/2-A	Lab Control Sample	Total/NA	Solid	300.0	5491

Prep Batch: 5639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-9	PH08@8	Total/NA	Solid	300_Prep	
885-4829-11	PH09@3	Total/NA	Solid	300_Prep	
885-4829-12	PH09@10	Total/NA	Solid	300_Prep	
885-4829-13	PH10@3	Total/NA	Solid	300_Prep	
885-4829-14	PH10@9	Total/NA	Solid	300_Prep	
885-4829-15	PH11@3	Total/NA	Solid	300_Prep	
885-4829-16	PH11@10	Total/NA	Solid	300_Prep	
MB 885-5639/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5639/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 5663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4829-9	PH08@8	Total/NA	Solid	300.0	5639
885-4829-11	PH09@3	Total/NA	Solid	300.0	5639
885-4829-12	PH09@10	Total/NA	Solid	300.0	5639
885-4829-13	PH10@3	Total/NA	Solid	300.0	5639
885-4829-14	PH10@9	Total/NA	Solid	300.0	5639
885-4829-15	PH11@3	Total/NA	Solid	300.0	5639
885-4829-16	PH11@10	Total/NA	Solid	300.0	5639
MB 885-5639/1-A	Method Blank	Total/NA	Solid	300.0	5639
MB 885-5663/4	Method Blank	Total/NA	Solid	300.0	
LCS 885-5639/2-A	Lab Control Sample	Total/NA	Solid	300.0	5639
MRL 885-5663/3	Lab Control Sample	Total/NA	Solid	300.0	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: SS03E
Date Collected: 05/20/24 10:00
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8015D		1	5644	JP	EET ALB	05/25/24 11:41
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8021B		1	5645	JP	EET ALB	05/25/24 11:41
Total/NA	Prep	SHAKE			5470	JU	EET ALB	05/22/24 14:43
Total/NA	Analysis	8015D		1	5621	JU	EET ALB	05/23/24 17:00
Total/NA	Prep	300_Prep			5491	JT	EET ALB	05/23/24 07:13
Total/NA	Analysis	300.0		20	5610	RC	EET ALB	05/23/24 13:39

Client Sample ID: SS15E
Date Collected: 05/20/24 11:00
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8015D		1	5644	JP	EET ALB	05/25/24 12:04
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8021B		1	5645	JP	EET ALB	05/25/24 12:04
Total/NA	Prep	SHAKE			5470	JU	EET ALB	05/22/24 14:43
Total/NA	Analysis	8015D		1	5621	JU	EET ALB	05/23/24 17:11
Total/NA	Prep	300_Prep			5491	JT	EET ALB	05/23/24 07:13
Total/NA	Analysis	300.0		20	5610	RC	EET ALB	05/23/24 13:51

Client Sample ID: PH06@6
Date Collected: 05/20/24 11:40
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8015D		1	5727	JP	EET ALB	05/28/24 14:00
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8021B		1	5728	JP	EET ALB	05/28/24 14:00
Total/NA	Prep	SHAKE			5470	JU	EET ALB	05/22/24 14:43
Total/NA	Analysis	8015D		20	5621	JU	EET ALB	05/23/24 12:55
Total/NA	Prep	300_Prep			5491	JT	EET ALB	05/23/24 07:13
Total/NA	Analysis	300.0		20	5610	RC	EET ALB	05/23/24 14:28

Client Sample ID: PH06@9
Date Collected: 05/20/24 11:42
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8015D		1	5644	JP	EET ALB	05/25/24 12:51

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH06@9
Date Collected: 05/20/24 11:42
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8021B		1	5645	JP	EET ALB	05/25/24 12:51
Total/NA	Prep	SHAKE			5470	JU	EET ALB	05/22/24 14:43
Total/NA	Analysis	8015D		20	5621	JU	EET ALB	05/23/24 13:06
Total/NA	Prep	300_Prep			5491	JT	EET ALB	05/23/24 07:13
Total/NA	Analysis	300.0		20	5610	RC	EET ALB	05/23/24 14:41

Client Sample ID: PH06@10
Date Collected: 05/20/24 11:44
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8015D		1	5644	JP	EET ALB	05/25/24 13:38
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8021B		1	5645	JP	EET ALB	05/25/24 13:38
Total/NA	Prep	SHAKE			5470	JU	EET ALB	05/22/24 14:43
Total/NA	Analysis	8015D		1	5621	JU	EET ALB	05/23/24 14:21
Total/NA	Prep	300_Prep			5491	JT	EET ALB	05/23/24 07:13
Total/NA	Analysis	300.0		20	5610	RC	EET ALB	05/23/24 14:53

Client Sample ID: PH07@6
Date Collected: 05/20/24 12:08
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8015D		1	5644	JP	EET ALB	05/25/24 14:02
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8021B		1	5645	JP	EET ALB	05/25/24 14:02
Total/NA	Prep	SHAKE			5470	JU	EET ALB	05/22/24 14:43
Total/NA	Analysis	8015D		1	5621	JU	EET ALB	05/23/24 17:22
Total/NA	Prep	300_Prep			5491	JT	EET ALB	05/23/24 07:13
Total/NA	Analysis	300.0		20	5610	RC	EET ALB	05/23/24 15:05

Client Sample ID: PH07@10
Date Collected: 05/20/24 12:10
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8015D		1	5644	JP	EET ALB	05/25/24 14:25
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8021B		1	5645	JP	EET ALB	05/25/24 14:25

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH07@10
Date Collected: 05/20/24 12:10
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5470	JU	EET ALB	05/22/24 14:43
Total/NA	Analysis	8015D		1	5621	JU	EET ALB	05/23/24 17:33
Total/NA	Prep	300_Prep			5491	JT	EET ALB	05/23/24 07:13
Total/NA	Analysis	300.0		20	5610	RC	EET ALB	05/23/24 15:18

Client Sample ID: PH08@3
Date Collected: 05/20/24 13:10
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8015D		10	5644	JP	EET ALB	05/25/24 14:49
Total/NA	Prep	5030C			5378	AT	EET ALB	05/21/24 14:26
Total/NA	Analysis	8021B		10	5645	JP	EET ALB	05/25/24 14:49
Total/NA	Prep	SHAKE			5470	JU	EET ALB	05/22/24 14:43
Total/NA	Analysis	8015D		20	5621	JU	EET ALB	05/23/24 13:38
Total/NA	Prep	300_Prep			5491	JT	EET ALB	05/23/24 07:13
Total/NA	Analysis	300.0		20	5610	RC	EET ALB	05/23/24 15:55

Client Sample ID: PH08@8
Date Collected: 05/20/24 13:14
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8015D		1	5727	JP	EET ALB	05/28/24 18:41
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8021B		1	5728	JP	EET ALB	05/28/24 18:41
Total/NA	Prep	SHAKE			5576	DH	EET ALB	05/23/24 14:41
Total/NA	Analysis	8015D		1	5629	JU	EET ALB	05/24/24 11:26
Total/NA	Prep	300_Prep			5639	RC	EET ALB	05/24/24 14:04
Total/NA	Analysis	300.0		20	5663	RC	EET ALB	05/24/24 20:48

Client Sample ID: PH09@3
Date Collected: 05/20/24 13:47
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8015D		1	5727	JP	EET ALB	05/28/24 19:51
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8021B		1	5728	JP	EET ALB	05/28/24 19:51
Total/NA	Prep	SHAKE			5576	DH	EET ALB	05/23/24 14:41
Total/NA	Analysis	8015D		10	5735	JU	EET ALB	05/28/24 13:49

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH09@3
Date Collected: 05/20/24 13:47
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			5639	RC	EET ALB	05/24/24 14:04
Total/NA	Analysis	300.0		20	5663	RC	EET ALB	05/24/24 21:03

Client Sample ID: PH09@10
Date Collected: 05/20/24 13:45
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8015D		1	5727	JP	EET ALB	05/28/24 21:01
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8021B		1	5728	JP	EET ALB	05/28/24 21:01
Total/NA	Prep	SHAKE			5576	DH	EET ALB	05/23/24 14:41
Total/NA	Analysis	8015D		1	5629	JU	EET ALB	05/24/24 12:08
Total/NA	Prep	300_Prep			5639	RC	EET ALB	05/24/24 14:04
Total/NA	Analysis	300.0		20	5663	RC	EET ALB	05/24/24 21:18

Client Sample ID: PH10@3
Date Collected: 05/20/24 14:50
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8015D		1	5727	JP	EET ALB	05/28/24 21:48
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8021B		1	5728	JP	EET ALB	05/28/24 21:48
Total/NA	Prep	SHAKE			5576	DH	EET ALB	05/23/24 14:41
Total/NA	Analysis	8015D		1	5629	JU	EET ALB	05/24/24 12:19
Total/NA	Prep	300_Prep			5639	RC	EET ALB	05/24/24 14:04
Total/NA	Analysis	300.0		20	5663	RC	EET ALB	05/24/24 21:34

Client Sample ID: PH10@9
Date Collected: 05/20/24 14:52
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4829-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8015D		1	5727	JP	EET ALB	05/28/24 22:12
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8021B		1	5728	JP	EET ALB	05/28/24 22:12
Total/NA	Prep	SHAKE			5576	DH	EET ALB	05/23/24 14:41
Total/NA	Analysis	8015D		1	5629	JU	EET ALB	05/24/24 12:30
Total/NA	Prep	300_Prep			5639	RC	EET ALB	05/24/24 14:04
Total/NA	Analysis	300.0		20	5663	RC	EET ALB	05/24/24 21:49

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

Client Sample ID: PH11@3

Lab Sample ID: 885-4829-15
Matrix: Solid
Date Collected: 05/20/24 14:54
Date Received: 05/21/24 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8015D		1	5727	JP	EET ALB	05/28/24 22:58
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8021B		1	5728	JP	EET ALB	05/28/24 22:58
Total/NA	Prep	SHAKE			5576	DH	EET ALB	05/23/24 14:41
Total/NA	Analysis	8015D		1	5629	JU	EET ALB	05/24/24 12:40
Total/NA	Prep	300_Prep			5639	RC	EET ALB	05/24/24 14:04
Total/NA	Analysis	300.0		20	5663	RC	EET ALB	05/24/24 22:04

Client Sample ID: PH11@10

Lab Sample ID: 885-4829-16
Matrix: Solid
Date Collected: 05/20/24 14:56
Date Received: 05/21/24 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8015D		1	5727	JP	EET ALB	05/28/24 23:22
Total/NA	Prep	5030C			5422	AT	EET ALB	05/22/24 08:45
Total/NA	Analysis	8021B		1	5728	JP	EET ALB	05/28/24 23:22
Total/NA	Prep	SHAKE			5576	DH	EET ALB	05/23/24 14:41
Total/NA	Analysis	8015D		1	5629	JU	EET ALB	05/24/24 12:51
Total/NA	Prep	300_Prep			5639	RC	EET ALB	05/24/24 14:04
Total/NA	Analysis	300.0		20	5663	RC	EET ALB	05/24/24 22:19

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Seymour 6

Job ID: 885-4829-1

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
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: HEC

Attn: Kate Kaufman

Mailing Address:

Phone #:

email or Fax#: KKaufman@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush 5day

Project Name: Seymour 6

Project #:

Project Manager: Stuart Hyde Shyde@ensolum.com

Sampler:

On Ice: ☑ Yes ☐ No 4009

# of Coolers: 1

Cooler Temp(including CF): 2.4+0.1=2.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-4829 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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	CF, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	HOLD
5/20/24	1000	Soil	SS03 E	4oz 1	Cool	1	X	X					X				
	1100		SS1SE			2	X	X					X				
	11:40		PH06@6			3	X	X					X				
	11:42		PH06@9			4	X	X					X				
	11:44		PH06@10			5	X	X					X				
	12:08		PH07@6			6	X	X					X				
	12:10		PH07@10			7	X	X					X				
	13:10		PH08@3			8	X	X					X				
	13:14		PH08@6			9	X	X					X				
	13:12		PH08@10			10											X
	13:47		PH09@3			11	X	X					X				
	13:45		PH09@10			12	X	X					X				

Date:	Time:	Relinquished by:	Received by:	Via:	Date Time
5/20/21	1547				5/20/24 1547
Date.	Time:	Relinquished by:	Received by:	Via: courier	Date Time
					7:25 5/21/24

Remarks: PLZ CC: Pandersen@ensolum.com + scarter@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.

5/20/24 1746

Chain-of-Custody Record

Client: HEC

Attn: Kate Kaufman

Mailing Address:

Phone #:

email or Fax#: KKaufman@Hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard 5day ☐ Rush

Project Name: Seymour 6

Project #:

Project Manager: Stuart Hyde Shyde@ensolum.com

Sampler:

On Ice: ☑ Yes ☐ No 4pg

# of Coolers: 1

Cooler Temp(including CF): 2.4 + 0.1 = 2.5 (°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.	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_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/20/24	14:50	Soil	PH10 @ 3	4oz 1	cool	13	X	X					X			
	14:52		PH10 @ 9			14	X	X					X			
	14:54		PH11 @ 3			15	X	X					X			
	14:56		PH11 @ 10			16	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/20/24	1547					
Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/20/24	1740				5/20/24	1547

Remarks: Plz CC: Panderson@ensolum.com & scarter@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

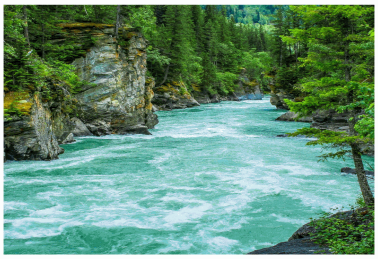
Client: Hilcorp Energy Job Number: 885-4829-1

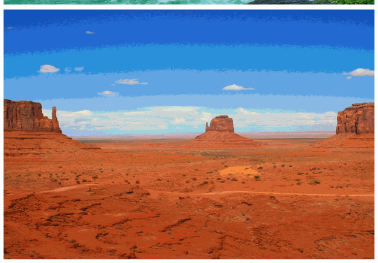
Login Number: 4829 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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?	N/A	
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:

Stuart Hyde





5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:	Seymour 6
Work Order:	E411072
Job Number:	17051-0002
Received:	11/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/24

Date Reported: 11/12/24

Stuart Hyde
PO Box 61529
Houston, TX 77208

Project Name: Seymour 6
Workorder: E411072
Date Received: 11/7/2024 12:16:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 12:16:00PM, under the Project Name: Seymour 6.

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

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

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

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

Respectfully,

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

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

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Sample Summary

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/24 11:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01	E411072-01A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.
FS02	E411072-02A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.
SW01	E411072-03A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.
SW02	E411072-04A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.
SS15F	E411072-05A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.
FS04	E411072-06A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.
SW03	E411072-07A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.
SW04	E411072-08A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.
SW05	E411072-09A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.
FS03	E411072-10A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

FS01

E411072-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	**620**	125	5	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	**721**	250	5	11/08/24	11/09/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

FS02

E411072-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.1 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.1 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	**1010**	125	5	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	**1330**	250	5	11/08/24	11/09/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

SW01

E411072-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*98.3 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*98.3 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

SW02

E411072-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

SS15F

E411072-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*95.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.3 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*95.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.3 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	**65.3**	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	**95.5**	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

FS04

E411072-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*96.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*96.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	**468**	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	**647**	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

SW03

E411072-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	**25.5**	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

SW04

E411072-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.5 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.5 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

SW05

E411072-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*96.1 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.1 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*96.1 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.1 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

FS03

E411072-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445122
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445130
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/08/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445122-BLK1)									Prepared: 11/07/24 Analyzed: 11/09/24
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: Bromofluorobenzene	*0.486*		*0.500*		*97.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.472*		*0.500*		*94.3*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
LCS (2445122-BS1)									Prepared: 11/07/24 Analyzed: 11/09/24
Benzene	2.22	0.0250	2.50		88.6	70-130			
Ethylbenzene	2.51	0.0250	2.50		100	70-130			
Toluene	2.40	0.0250	2.50		95.9	70-130			
o-Xylene	2.53	0.0250	2.50		101	70-130			
p,m-Xylene	5.07	0.0500	5.00		101	70-130			
Total Xylenes	7.60	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	*0.477*		*0.500*		*95.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.476*		*0.500*		*95.2*	*70-130*			
Surrogate: Toluene-d8	*0.518*		*0.500*		*104*	*70-130*			
LCS Dup (2445122-BSD1)									Prepared: 11/07/24 Analyzed: 11/09/24
Benzene	2.30	0.0250	2.50		92.1	70-130	3.90	23	
Ethylbenzene	2.61	0.0250	2.50		104	70-130	3.95	27	
Toluene	2.51	0.0250	2.50		100	70-130	4.59	24	
o-Xylene	2.63	0.0250	2.50		105	70-130	3.91	27	
p,m-Xylene	5.34	0.0500	5.00		107	70-130	5.23	27	
Total Xylenes	7.97	0.0250	7.50		106	70-130	4.79	27	
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*98.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.478*		*0.500*		*95.5*	*70-130*			
Surrogate: Toluene-d8	*0.520*		*0.500*		*104*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445122-BLK1)									Prepared: 11/07/24 Analyzed: 11/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.486*		*0.500*		*97.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.472*		*0.500*		*94.3*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
LCS (2445122-BS2)									Prepared: 11/07/24 Analyzed: 11/09/24
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	*0.513*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.476*		*0.500*		*95.2*	*70-130*			
Surrogate: Toluene-d8	*0.535*		*0.500*		*107*	*70-130*			
LCS Dup (2445122-BSD2)									Prepared: 11/07/24 Analyzed: 11/09/24
Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.7	70-130	10.9	20	
Surrogate: Bromofluorobenzene	*0.495*		*0.500*		*99.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.478*		*0.500*		*95.5*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445130-BLK1)									Prepared: 11/08/24 Analyzed: 11/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.8*		*50.0*		*106*	*50-200*			
LCS (2445130-BS1)									Prepared: 11/08/24 Analyzed: 11/09/24
Diesel Range Organics (C10-C28)	278	25.0	250		111	38-132			
Surrogate: n-Nonane	*57.1*		*50.0*		*114*	*50-200*			
Matrix Spike (2445130-MS1)				**Source: E411072-07**					Prepared: 11/08/24 Analyzed: 11/09/24
Diesel Range Organics (C10-C28)	299	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	*60.1*		*50.0*		*120*	*50-200*			
Matrix Spike Dup (2445130-MSD1)				**Source: E411072-07**					Prepared: 11/08/24 Analyzed: 11/09/24
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132	12.3	20	
Surrogate: n-Nonane	*53.0*		*50.0*		*106*	*50-200*			

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 11:18:08AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445119-BLK1)									Prepared: 11/07/24 Analyzed: 11/08/24
Chloride	ND	20.0							
LCS (2445119-BS1)									Prepared: 11/07/24 Analyzed: 11/08/24
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2445119-MS1)				**Source: E411071-23**					Prepared: 11/07/24 Analyzed: 11/08/24
Chloride	298	20.0	250	33.2	106	80-120			
Matrix Spike Dup (2445119-MSD1)				**Source: E411071-23**					Prepared: 11/07/24 Analyzed: 11/08/24
Chloride	297	20.0	250	33.2	106	80-120	0.286	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:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/24 11:18

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: Hilcorp	Company: Hilcorp	Lab WO# E411072	Job Number 17051.0002	1D 2D 3D Std: 3D ✓
Project Name: Seymour G	Address:			NM ✓ CO UT TX
Project Manager: Stuart Hyde	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email:			
Phone:	Miscellaneous: Attn Kkaufman@hilcorp.com			
Email: Shyde@ensolum.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Remarks
1150	11/6/24	Soil	1,4oz	FS01		1	✓	✓	✓		✓				
1152				FS02		2									
1156				SW01		3									
1158				SW02		4									
1415				SS15 F		5									
1552				FS04		6									
1554				SW03		7									
1556				SW04		8									
1558				SW05		9									
1550	↓	↓	↓	FS03		10	↓	↓	↓		↓				

Analysis and Method

EPA Program

SDWA	CWA	RCRA

Compliance Y or N

PWSID #

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: Peter Anderson

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11-7-24	1100		11-7-24	11:00
	11-7-24	12:16	Raina Schwanz	11/7/24	12:16

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.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

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

Envirotech Analytical Laboratory

Printed: 11/7/2024 12:39:00PM

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:	11/07/24 12:16	Work Order ID:	E411072
Phone:	-	Date Logged In:	11/07/24 12:29	Logged In By:	Caitlin Mars
Email:	shyde@ensolum.com	Due Date:	11/12/24 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Zach Myas
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

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 filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

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

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

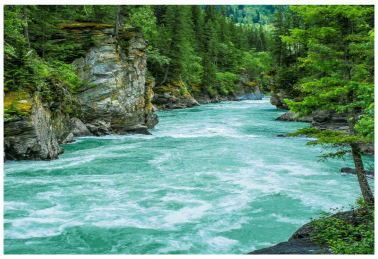
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Stuart Hyde



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:	Seymour 6
Work Order:	E411073
Job Number:	17051-0002
Received:	11/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/24

Date Reported: 11/12/24

Stuart Hyde
PO Box 61529
Houston, TX 77208

Project Name: Seymour 6
Workorder: E411073
Date Received: 11/7/2024 2:38:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 2:38:00PM, under the Project Name: Seymour 6.

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

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

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

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

Respectfully,

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

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

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Sample Summary

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/24 17:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS05	E411073-01A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
FS06	E411073-02A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
FS07	E411073-03A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
FS08	E411073-04A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
FS09	E411073-05A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
FS10	E411073-06A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
FS11	E411073-07A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
FS12	E411073-08A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
SW06	E411073-09A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
SW07	E411073-10A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
SW08	E411073-11A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
SW09	E411073-12A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.
SW10	E411073-13A	Soil	11/07/24	11/07/24	Glass Jar, 4 oz.

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

FS05

E411073-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.5 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	**25.5**	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

FS06

E411073-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.3 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	**30.8**	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	**51.5**	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*122 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

FS07

E411073-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.1 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

FS08

E411073-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.3 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

FS09

E411073-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.7 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	**190**	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	**257**	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

FS10

E411073-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.2 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	**98.4**	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	**144**	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

FS11

E411073-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.8 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	**201**	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	**238**	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

FS12

E411073-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.3 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	**182**	50.0	2	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	**309**	100	2	11/08/24	11/08/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

SW06

E411073-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.0 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	**138**	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	**208**	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

SW07

E411073-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.9 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

SW08

E411073-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

SW09

E411073-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	ND	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.5 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	**336**	125	5	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	**389**	250	5	11/08/24	11/08/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

SW10

E411073-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Benzene	ND	0.0250	1	11/07/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/12/24	
Toluene	ND	0.0250	1	11/07/24	11/12/24	
o-Xylene	**0.0255**	0.0250	1	11/07/24	11/12/24	
p,m-Xylene	**0.178**	0.0500	1	11/07/24	11/12/24	
Total Xylenes	**0.204**	0.0250	1	11/07/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.5 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445123
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.2 %*	*70-130*	*11/07/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445131
Diesel Range Organics (C10-C28)	**7130**	250	10	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	**4900**	500	10	11/08/24	11/08/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/08/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445127
Chloride	ND	20.0	1	11/07/24	11/08/24	

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445123-BLK1)									Prepared: 11/07/24 Analyzed: 11/11/24
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	*7.10*		*8.00*		*88.7*	*70-130*			
LCS (2445123-BS1)									Prepared: 11/07/24 Analyzed: 11/12/24
Benzene	4.99	0.0250	5.00		99.8	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.2	70-130			
Toluene	4.92	0.0250	5.00		98.4	70-130			
o-Xylene	4.80	0.0250	5.00		96.0	70-130			
p,m-Xylene	9.75	0.0500	10.0		97.5	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.06*		*8.00*		*88.2*	*70-130*			
LCS Dup (2445123-BSD1)									Prepared: 11/07/24 Analyzed: 11/12/24
Benzene	5.06	0.0250	5.00		101	70-130	1.42	20	
Ethylbenzene	4.89	0.0250	5.00		97.8	70-130	1.62	20	
Toluene	5.00	0.0250	5.00		100	70-130	1.61	20	
o-Xylene	4.89	0.0250	5.00		97.7	70-130	1.77	20	
p,m-Xylene	9.90	0.0500	10.0		99.0	70-130	1.56	20	
Total Xylenes	14.8	0.0250	15.0		98.6	70-130	1.63	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.09*		*8.00*		*88.6*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445123-BLK1)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.5*	*70-130*			
LCS (2445123-BS2)									Prepared: 11/07/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.38*		*8.00*		*92.3*	*70-130*			
LCS Dup (2445123-BSD2)									Prepared: 11/07/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	41.4	20.0	50.0		82.9	70-130	10.6	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.5*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445131-BLK1)									Prepared: 11/08/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*56.5*		*50.0*		*113*	*50-200*			
LCS (2445131-BS1)									Prepared: 11/08/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	*54.5*		*50.0*		*109*	*50-200*			
Matrix Spike (2445131-MS1)				**Source: E411073-09**					Prepared: 11/08/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	377	25.0	250	138	95.7	38-132			
Surrogate: n-Nonane	*56.9*		*50.0*		*114*	*50-200*			
Matrix Spike Dup (2445131-MSD1)				**Source: E411073-09**					Prepared: 11/08/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	452	25.0	250	138	126	38-132	18.1	20	
Surrogate: n-Nonane	*55.6*		*50.0*		*111*	*50-200*			

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/2024 5:54:51PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445127-BLK1)									Prepared: 11/07/24 Analyzed: 11/07/24
Chloride	ND	20.0							
LCS (2445127-BS1)									Prepared: 11/07/24 Analyzed: 11/07/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2445127-MS1)				**Source: E411058-02**					Prepared: 11/07/24 Analyzed: 11/07/24
Chloride	1070	20.0	250	802	107	80-120			
Matrix Spike Dup (2445127-MSD1)				**Source: E411058-02**					Prepared: 11/07/24 Analyzed: 11/07/24
Chloride	1070	20.0	250	802	107	80-120	0.0420	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:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/12/24 17:54

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: Hilcorp	Company: Hilcorp	Lab WO# E411073	1D 2D 3D Std	NM CO UT TX
Project Name: Seymour 6	Address:	Job Number 17051:0002		
Project Manager: Stuart Hyde	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email: K.Kaufman@hilcorp.com			
Phone:	Miscellaneous: Attn: Kate Kaufman			
Email: Shyde@consolum.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Remarks
1223	11/7/24	Soil	1, 4oz	FS05		1	X	X	X		X							
1225				FS06		2												
1227				FS 07		3												
1229				FS 08		4												
1231				FS 09		5												
1233				FS10		6												
1235				FS11		7												
1237				FS12		8												

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

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: Peter Anderson

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/7/24	1437		11.7.24	14:38

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.

Lab Use Only

Received on ice: Y / N

T1 T2 T3

AVG Temp °C 4

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

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Hilcorp	Company: Hilcorp	Lab WO# E411073	1D 2D 3D Std	NM CO UT TX
Project Name: Seymour 6	Address:	Job Number 17051.0002	3D	NM
Project Manager: Stuart Hyde	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email: Kkaufman@hilcorp.com			
Phone:	Miscellaneous: Attn Kate Kaufman			
Email: Shyde@envirotech.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Remarks
1239	11/7/24	Soil	1, 4oz	SW06		9	X	X	X		X							
1241				SW07		10												
1243				SW08		11												
1245				SW09		12												
1247				SW10		13												

Analysis and Method

EPA Program

SDWA	CWA	RCRA

Compliance Y or N

PWSID #

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: Peter Anderson

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/7/24	1437	Carla Mar	11.7.24	14:38
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

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.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

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

Envirotech Analytical Laboratory

Printed: 11/7/2024 2:52:10PM

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:	11/07/24 14:38	Work Order ID:	E411073
Phone:	-	Date Logged In:	11/07/24 14:38	Logged In By:	Caitlin Mars
Email:	shyde@ensolum.com	Due Date:	11/12/24 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Peter Anderson
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

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 filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

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

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

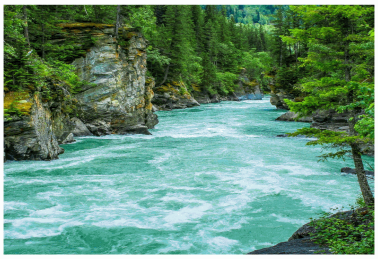
Signature of client authorizing changes to the COC or sample disposition.

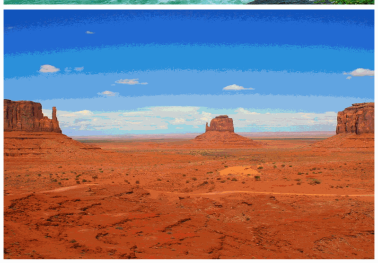
Date

envirotech Inc.

Report to:

Stuart Hyde





5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:	Seymour 6
Work Order:	E411192
Job Number:	17051-0002
Received:	11/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/21/24

Date Reported: 11/21/24

Stuart Hyde
PO Box 61529
Houston, TX 77208

Project Name: Seymour 6
Workorder: E411192
Date Received: 11/18/2024 3:24:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/18/2024 3:24:00PM, under the Project Name: Seymour 6.

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

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/24 12:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS09A	E411192-01A	Soil	11/18/24	11/18/24	Glass Jar, 4 oz.
FS10A	E411192-02A	Soil	11/18/24	11/18/24	Glass Jar, 4 oz.
FS11A	E411192-03A	Soil	11/18/24	11/18/24	Glass Jar, 4 oz.
FS12A	E411192-04A	Soil	11/18/24	11/18/24	Glass Jar, 4 oz.
SW06A	E411192-05A	Soil	11/18/24	11/18/24	Glass Jar, 4 oz.
HA04 @ 1	E411192-06A	Soil	11/18/24	11/18/24	Glass Jar, 4 oz.
HA04 @ 4	E411192-07A	Soil	11/18/24	11/18/24	Glass Jar, 4 oz.
HA05 @ 1	E411192-08A	Soil	11/18/24	11/18/24	Glass Jar, 4 oz.
HA05 @ 4	E411192-09A	Soil	11/18/24	11/18/24	Glass Jar, 4 oz.

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

FS09A

E411192-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.2 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2447031
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/20/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/19/24*	*11/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2447067
Chloride	ND	20.0	1	11/20/24	11/20/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

FS10A

E411192-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.0 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2447031
Diesel Range Organics (C10-C28)	**241**	25.0	1	11/19/24	11/20/24	
Oil Range Organics (C28-C36)	**402**	50.0	1	11/19/24	11/20/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/19/24*	*11/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2447067
Chloride	ND	20.0	1	11/20/24	11/20/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

FS11A

E411192-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.1 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2447031
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/20/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/19/24*	*11/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2447067
Chloride	ND	20.0	1	11/20/24	11/20/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

FS12A

E411192-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.6 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2447031
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/20/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/19/24*	*11/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2447067
Chloride	ND	20.0	1	11/20/24	11/20/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

SW06A

E411192-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.9 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2447031
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/20/24	
Surrogate: n-Nonane		*95.7 %*	*50-200*	*11/19/24*	*11/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2447067
Chloride	ND	20.0	1	11/20/24	11/20/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

HA04 @ 1

E411192-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.8 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2447031
Diesel Range Organics (C10-C28)	**88.6**	25.0	1	11/19/24	11/20/24	
Oil Range Organics (C28-C36)	**479**	50.0	1	11/19/24	11/20/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/19/24*	*11/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2447067
Chloride	ND	20.0	1	11/20/24	11/20/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

HA04 @ 4

E411192-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.7 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.6 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2447031
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/20/24	
Oil Range Organics (C28-C36)	**50.3**	50.0	1	11/19/24	11/20/24	
Surrogate: n-Nonane		*99.8 %*	*50-200*	*11/19/24*	*11/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2447067
Chloride	ND	20.0	1	11/20/24	11/20/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

HA05 @ 1

E411192-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.5 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.7 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2447031
Diesel Range Organics (C10-C28)	**114**	25.0	1	11/19/24	11/20/24	
Oil Range Organics (C28-C36)	**282**	50.0	1	11/19/24	11/20/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/19/24*	*11/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2447067
Chloride	ND	20.0	1	11/20/24	11/20/24	

Sample Data

Hilcorp Energy Co	Project Name:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

HA05 @ 4

E411192-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.4 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2447037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.1 %*	*70-130*	*11/19/24*	*11/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2447031
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/20/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/19/24*	*11/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2447067
Chloride	ND	20.0	1	11/20/24	11/20/24	

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2447037-BLK1)									Prepared: 11/19/24 Analyzed: 11/19/24
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	*7.93*		*8.00*		*99.2*	*70-130*			
LCS (2447037-BS1)									Prepared: 11/19/24 Analyzed: 11/19/24
Benzene	5.31	0.0250	5.00		106	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.23	0.0250	5.00		105	70-130			
o-Xylene	5.15	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.01*		*8.00*		*100*	*70-130*			
LCS Dup (2447037-BSD1)									Prepared: 11/19/24 Analyzed: 11/19/24
Benzene	5.20	0.0250	5.00		104	70-130	2.15	20	
Ethylbenzene	5.01	0.0250	5.00		100	70-130	2.12	20	
Toluene	5.11	0.0250	5.00		102	70-130	2.17	20	
o-Xylene	5.05	0.0250	5.00		101	70-130	1.86	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	2.06	20	
Total Xylenes	15.3	0.0250	15.0		102	70-130	1.99	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.05*		*8.00*		*101*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2447037-BLK1)									Prepared: 11/19/24 Analyzed: 11/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.11*		*8.00*		*88.9*	*70-130*			
LCS (2447037-BS2)									Prepared: 11/19/24 Analyzed: 11/20/24
Gasoline Range Organics (C6-C10)	40.2	20.0	50.0		80.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.25*		*8.00*		*90.6*	*70-130*			
LCS Dup (2447037-BSD2)									Prepared: 11/19/24 Analyzed: 11/19/24
Gasoline Range Organics (C6-C10)	39.6	20.0	50.0		79.2	70-130	1.37	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.21*		*8.00*		*90.1*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2447031-BLK1)									Prepared: 11/19/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.1*		*50.0*		*104*	*50-200*			
LCS (2447031-BS1)									Prepared: 11/19/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	*51.8*		*50.0*		*104*	*50-200*			
LCS Dup (2447031-BSD1)									Prepared: 11/19/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	254	25.0	250		101	38-132	1.04	20	
Surrogate: n-Nonane	*52.2*		*50.0*		*104*	*50-200*			

QC Summary Data

Hilcorp Energy Co	Project Name:	Seymour 6	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/2024 12:55:33PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2447067-BLK1)									Prepared: 11/20/24 Analyzed: 11/20/24
Chloride	ND	20.0							
LCS (2447067-BS1)									Prepared: 11/20/24 Analyzed: 11/20/24
Chloride	255	20.0	250		102	90-110			
LCS Dup (2447067-BSD1)									Prepared: 11/20/24 Analyzed: 11/20/24
Chloride	255	20.0	250		102	90-110	0.0836	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:	Seymour 6	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Stuart Hyde	11/21/24 12:55

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: HEC	Company: HEC	Lab WO# E411192	Job Number 17051.0002	1D 2D 3D Std: 3D ✓
Project Name: Seymour 6	Address:			NM ✓ CO UT TX
Project Manager: S. Hyde	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email: KKaufman@hilcorp.com			
Phone:	Miscellaneous: Attn KATE KAUFMAN			
Email: Shyde@ensolum.com				
PIZ CC: Panderson@ensolum.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Remarks
1028	11/18/24	S	1	1,402	FS09A		1	✓	✓	✓		✓						
1140					FS10A		2											
1145					FS11A		3											
1152					FS12A		4											
1159					SW06A		5											
1406					HA04@1		6											
1408					HA04@4		7											
1410					HA05@1		8											
1412	↓	↓	↓		HA05@4		9	✓	✓	✓		✓						

EPA Program		
SDWA	CWA	RCRA
Compliance	Y	or N
PWSID #		

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: Peter Anderson

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/18/24	1524		11.18.24	15:24
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

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.

Lab Use Only

Received on ice: (Y) N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

Envirotech Analytical Laboratory

Printed: 11/18/2024 3:51:37PM

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:	11/18/24 15:24	Work Order ID:	E411192
Phone:	-	Date Logged In:	11/18/24 15:46	Logged In By:	Caitlin Mars
Email:	shyde@ensolum.com	Due Date:	11/21/24 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Peter Anderson
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

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 filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

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

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

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

Date

envirotech Inc.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 12/21/2024 12:22:39 PM

JOB DESCRIPTION

Seymour #6

JOB NUMBER

885-16824-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
12/21/2024 12:22:39 PM

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

Client: Hilcorp Energy
Project/Site: Seymour #6

Laboratory Job ID: 885-16824-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

Qualifiers

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: Seymour #6

Job ID: 885-16824-1

Job ID: 885-16824-1 Eurofins Albuquerque

Job Narrative
885-16824-1

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

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

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

Receipt
The samples were received on 12/12/2024 6:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°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
Method 8015D_DRO: The following sample required a dilution due to the nature of the sample matrix: HA06@12' (885-16824-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix and abundance of target analytes : HA06@13' (885-16824-2). As such, surrogate recoveries are below the calibration range or are not reported, and 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.

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

Client Sample ID: HA06@12'

Date Collected: 12/11/24 10:00
Date Received: 12/12/24 06:35

Lab Sample ID: 885-16824-1

Matrix: Solid

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		12/12/24 12:40	12/14/24 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*12/12/24 12:40*	*12/14/24 11:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		12/12/24 12:40	12/14/24 11:01	1
Ethylbenzene	ND		0.046		mg/Kg		12/12/24 12:40	12/14/24 11:01	1
Toluene	ND		0.046		mg/Kg		12/12/24 12:40	12/14/24 11:01	1
Xylenes, Total	ND		0.093		mg/Kg		12/12/24 12:40	12/14/24 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*12/12/24 12:40*	*12/14/24 11:01*	*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]	**3400**		190		mg/Kg		12/13/24 13:33	12/18/24 15:25	20
Motor Oil Range Organics [C28-C40]	**4800**		950		mg/Kg		12/13/24 13:33	12/18/24 15:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*12/13/24 13:33*	*12/18/24 15:25*	*20*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/16/24 08:20	12/16/24 12:37	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

Client Sample ID: HA06@13'

Date Collected: 12/11/24 10:10
Date Received: 12/12/24 06:35

Lab Sample ID: 885-16824-2

Matrix: Solid

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		12/12/24 12:40	12/14/24 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*12/12/24 12:40*	*12/14/24 11:25*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		12/12/24 12:40	12/14/24 11:25	1
Ethylbenzene	ND		0.046		mg/Kg		12/12/24 12:40	12/14/24 11:25	1
Toluene	ND		0.046		mg/Kg		12/12/24 12:40	12/14/24 11:25	1
Xylenes, Total	ND		0.092		mg/Kg		12/12/24 12:40	12/14/24 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*12/12/24 12:40*	*12/14/24 11:25*	*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]	**200**		47		mg/Kg		12/13/24 13:33	12/20/24 13:52	5
Motor Oil Range Organics [C28-C40]	**290**		240		mg/Kg		12/13/24 13:33	12/20/24 13:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*D S1-*	*62 - 134*	*12/13/24 13:33*	*12/20/24 13:52*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86**		60		mg/Kg		12/16/24 08:20	12/16/24 12:48	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

Client Sample ID: HA07@1'

Date Collected: 12/11/24 10:45
Date Received: 12/12/24 06:35

Lab Sample ID: 885-16824-3

Matrix: Solid

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		12/12/24 12:40	12/14/24 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*12/12/24 12:40*	*12/14/24 12:11*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/12/24 12:40	12/14/24 12:11	1
Ethylbenzene	ND		0.049		mg/Kg		12/12/24 12:40	12/14/24 12:11	1
Toluene	ND		0.049		mg/Kg		12/12/24 12:40	12/14/24 12:11	1
Xylenes, Total	ND		0.098		mg/Kg		12/12/24 12:40	12/14/24 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*12/12/24 12:40*	*12/14/24 12:11*	*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		12/13/24 13:33	12/18/24 15:46	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/13/24 13:33	12/18/24 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*	*12/13/24 13:33*	*12/18/24 15:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/16/24 08:20	12/16/24 12:58	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

Client Sample ID: HA08@1'

Date Collected: 12/11/24 10:55
Date Received: 12/12/24 06:35

Lab Sample ID: 885-16824-4

Matrix: Solid

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		12/12/24 12:40	12/14/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*12/12/24 12:40*	*12/14/24 12:35*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/12/24 12:40	12/14/24 12:35	1
Ethylbenzene	ND		0.050		mg/Kg		12/12/24 12:40	12/14/24 12:35	1
Toluene	ND		0.050		mg/Kg		12/12/24 12:40	12/14/24 12:35	1
Xylenes, Total	ND		0.10		mg/Kg		12/12/24 12:40	12/14/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*12/12/24 12:40*	*12/14/24 12:35*	*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		9.2		mg/Kg		12/13/24 13:33	12/18/24 15:57	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/13/24 13:33	12/18/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*119*		*62 - 134*	*12/13/24 13:33*	*12/18/24 15:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/16/24 08:20	12/16/24 13:08	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

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

Lab Sample ID: MB 885-17635/1-A
Matrix: Solid
Analysis Batch: 17778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17635

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		12/12/24 12:40	12/14/24 05:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*12/12/24 12:40*	*12/14/24 05:39*	*1*

Lab Sample ID: LCS 885-17635/2-A
Matrix: Solid
Analysis Batch: 17778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17635

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	23.3		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*188*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-17635/1-A
Matrix: Solid
Analysis Batch: 17779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17635

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/12/24 12:40	12/14/24 05:39	1
Ethylbenzene	ND		0.050		mg/Kg		12/12/24 12:40	12/14/24 05:39	1
Toluene	ND		0.050		mg/Kg		12/12/24 12:40	12/14/24 05:39	1
Xylenes, Total	ND		0.10		mg/Kg		12/12/24 12:40	12/14/24 05:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*12/12/24 12:40*	*12/14/24 05:39*	*1*

Lab Sample ID: LCS 885-17635/3-A
Matrix: Solid
Analysis Batch: 17779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17635

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.984		mg/Kg		98	70 - 130		
Ethylbenzene			1.00	1.02		mg/Kg		102	70 - 130		
m&p-Xylene			2.00	1.99		mg/Kg		100	70 - 130		
o-Xylene			1.00	0.984		mg/Kg		98	70 - 130		
Toluene			1.00	1.03		mg/Kg		103	70 - 130		
Xylenes, Total			3.00	2.98		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

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

Lab Sample ID: MB 885-17753/1-A
Matrix: Solid
Analysis Batch: 18021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17753

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/13/24 13:33	12/18/24 13:29	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/13/24 13:33	12/18/24 13:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*12/13/24 13:33*	*12/18/24 13:29*	*1*

Lab Sample ID: LCS 885-17753/2-A
Matrix: Solid
Analysis Batch: 18021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17753

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	56.3		mg/Kg		113	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-17797/1-A
Matrix: Solid
Analysis Batch: 17811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17797

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		12/16/24 08:20	12/16/24 09:36	1

Lab Sample ID: LCS 885-17797/2-A
Matrix: Solid
Analysis Batch: 17811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17797

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.4		mg/Kg		95	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

GC VOA

Prep Batch: 17635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16824-1	HA06@12'	Total/NA	Solid	5030C	
885-16824-2	HA06@13'	Total/NA	Solid	5030C	
885-16824-3	HA07@1'	Total/NA	Solid	5030C	
885-16824-4	HA08@1'	Total/NA	Solid	5030C	
MB 885-17635/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-17635/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-17635/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 17778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16824-1	HA06@12'	Total/NA	Solid	8015M/D	17635
885-16824-2	HA06@13'	Total/NA	Solid	8015M/D	17635
885-16824-3	HA07@1'	Total/NA	Solid	8015M/D	17635
885-16824-4	HA08@1'	Total/NA	Solid	8015M/D	17635
MB 885-17635/1-A	Method Blank	Total/NA	Solid	8015M/D	17635
LCS 885-17635/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	17635

Analysis Batch: 17779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16824-1	HA06@12'	Total/NA	Solid	8021B	17635
885-16824-2	HA06@13'	Total/NA	Solid	8021B	17635
885-16824-3	HA07@1'	Total/NA	Solid	8021B	17635
885-16824-4	HA08@1'	Total/NA	Solid	8021B	17635
MB 885-17635/1-A	Method Blank	Total/NA	Solid	8021B	17635
LCS 885-17635/3-A	Lab Control Sample	Total/NA	Solid	8021B	17635

GC Semi VOA

Prep Batch: 17753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16824-1	HA06@12'	Total/NA	Solid	SHAKE	
885-16824-2	HA06@13'	Total/NA	Solid	SHAKE	
885-16824-3	HA07@1'	Total/NA	Solid	SHAKE	
885-16824-4	HA08@1'	Total/NA	Solid	SHAKE	
MB 885-17753/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-17753/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 18021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16824-1	HA06@12'	Total/NA	Solid	8015M/D	17753
885-16824-3	HA07@1'	Total/NA	Solid	8015M/D	17753
885-16824-4	HA08@1'	Total/NA	Solid	8015M/D	17753
MB 885-17753/1-A	Method Blank	Total/NA	Solid	8015M/D	17753
LCS 885-17753/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	17753

Analysis Batch: 18214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16824-2	HA06@13'	Total/NA	Solid	8015M/D	17753

QC Association Summary

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

HPLC/IC

Prep Batch: 17797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16824-1	HA06@12'	Total/NA	Solid	300_Prep	
885-16824-2	HA06@13'	Total/NA	Solid	300_Prep	
885-16824-3	HA07@1'	Total/NA	Solid	300_Prep	
885-16824-4	HA08@1'	Total/NA	Solid	300_Prep	
MB 885-17797/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-17797/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 17811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16824-1	HA06@12'	Total/NA	Solid	300.0	17797
885-16824-2	HA06@13'	Total/NA	Solid	300.0	17797
885-16824-3	HA07@1'	Total/NA	Solid	300.0	17797
885-16824-4	HA08@1'	Total/NA	Solid	300.0	17797
MB 885-17797/1-A	Method Blank	Total/NA	Solid	300.0	17797
LCS 885-17797/2-A	Lab Control Sample	Total/NA	Solid	300.0	17797

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

Client Sample ID: HA06@12'
Lab Sample ID: 885-16824-1
Date Collected: 12/11/24 10:00
Matrix: Solid
Date Received: 12/12/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17635	JP	EET ALB	12/12/24 12:40
Total/NA	Analysis	8015M/D		1	17778	AT	EET ALB	12/14/24 11:01
Total/NA	Prep	5030C			17635	JP	EET ALB	12/12/24 12:40
Total/NA	Analysis	8021B		1	17779	AT	EET ALB	12/14/24 11:01
Total/NA	Prep	SHAKE			17753	MI	EET ALB	12/13/24 13:33
Total/NA	Analysis	8015M/D		20	18021	MI	EET ALB	12/18/24 15:25
Total/NA	Prep	300_Prep			17797	JT	EET ALB	12/16/24 08:20
Total/NA	Analysis	300.0		20	17811	JT	EET ALB	12/16/24 12:37

Client Sample ID: HA06@13'
Lab Sample ID: 885-16824-2
Date Collected: 12/11/24 10:10
Matrix: Solid
Date Received: 12/12/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17635	JP	EET ALB	12/12/24 12:40
Total/NA	Analysis	8015M/D		1	17778	AT	EET ALB	12/14/24 11:25
Total/NA	Prep	5030C			17635	JP	EET ALB	12/12/24 12:40
Total/NA	Analysis	8021B		1	17779	AT	EET ALB	12/14/24 11:25
Total/NA	Prep	SHAKE			17753	MI	EET ALB	12/13/24 13:33
Total/NA	Analysis	8015M/D		5	18214	EM	EET ALB	12/20/24 13:52
Total/NA	Prep	300_Prep			17797	JT	EET ALB	12/16/24 08:20
Total/NA	Analysis	300.0		20	17811	JT	EET ALB	12/16/24 12:48

Client Sample ID: HA07@1'
Lab Sample ID: 885-16824-3
Date Collected: 12/11/24 10:45
Matrix: Solid
Date Received: 12/12/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17635	JP	EET ALB	12/12/24 12:40
Total/NA	Analysis	8015M/D		1	17778	AT	EET ALB	12/14/24 12:11
Total/NA	Prep	5030C			17635	JP	EET ALB	12/12/24 12:40
Total/NA	Analysis	8021B		1	17779	AT	EET ALB	12/14/24 12:11
Total/NA	Prep	SHAKE			17753	MI	EET ALB	12/13/24 13:33
Total/NA	Analysis	8015M/D		1	18021	MI	EET ALB	12/18/24 15:46
Total/NA	Prep	300_Prep			17797	JT	EET ALB	12/16/24 08:20
Total/NA	Analysis	300.0		20	17811	JT	EET ALB	12/16/24 12:58

Client Sample ID: HA08@1'
Lab Sample ID: 885-16824-4
Date Collected: 12/11/24 10:55
Matrix: Solid
Date Received: 12/12/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17635	JP	EET ALB	12/12/24 12:40
Total/NA	Analysis	8015M/D		1	17778	AT	EET ALB	12/14/24 12:35

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

Client Sample ID: HA08@1'

Date Collected: 12/11/24 10:55
Date Received: 12/12/24 06:35

Lab Sample ID: 885-16824-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17635	JP	EET ALB	12/12/24 12:40
Total/NA	Analysis	8021B		1	17779	AT	EET ALB	12/14/24 12:35
Total/NA	Prep	SHAKE			17753	MI	EET ALB	12/13/24 13:33
Total/NA	Analysis	8015M/D		1	18021	MI	EET ALB	12/18/24 15:57
Total/NA	Prep	300_Prep			17797	JT	EET ALB	12/16/24 08:20
Total/NA	Analysis	300.0		20	17811	JT	EET ALB	12/16/24 13:08

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Seymour #6

Job ID: 885-16824-1

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: Hilcorp
Kate Kaufman
Mailing Address: 1111 Travis St
Houston, Tx
Phone #:
email or Fax#: KKaufman@hilcorp.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 5day
☒ Standard ☐ Rush
Project Name: Seymour #6
Project #:
Project Manager: Stuart Hyde
Sampler: Stuart Hyde
On Ice: ☐ Yes ☐ No
# of Coolers: 1 Yes
Cooler Temp(including CF): 0.3-0.3 = 0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORAT
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-16824 CO

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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	F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/11	1000	Soil	HA06 @ 12'	4oz jar	cool		X	X					X			
↓	1010	↓	HA06 @ 13'	↓	↓		↓	↓					↓			
	1045		HA07 @ 1'													
↓	1055	↓	HA08 @ 1'	↓	↓		↓	↓					↓			

Analysis Request

Date	Time	Relinquished by	Received by	Via	Date	Time
12/11	1155					
12/11/24	1745				12/11/24	1155
				courier	12/12/24	6:35

Remarks:

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: 885-16824-1

Login Number: 16824 **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	

ENSOLUM

APPENDIX C

Agency Correspondence

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 357695
Date: Thursday, June 27, 2024 2:28:21 PM

[**EXTERNAL EMAIL**]

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2224144740,
for the following reasons:

- **Remediation closure denied. The submitted application indicates a conflict between the questions answered and the attachments that have been submitted. For example, the answer "Yes" was selected to "Requesting a remediation closure approval with this submission;" however, your attachments indicate that your intent is to request a deferral approval. If this is the case, answer "yes" to requesting a deferral of the remediation closure due date with the approval of this submission but answer "no" to requesting a remediation closure approval with this submission.**
- **On pg. 3, "Due to the shallow nature of the excavation (0.5 feet in depth), shallow sidewall areas were incorporated into the composite floor samples." The excavation depth was anywhere from.5 feet up to 3.5 feet depth which means separate sidewall samples could have been collected. This did not follow the conditions of approval on 9/30/2022 which stated: "1. Excavation base sampling: one (1) - five (5) point composite sample [5pcs] per 500 square feet [sq. ft.]. 2. Sidewall sampling: one (1) 5pcs per 400 sq. ft." By combining base and sidewalls, not enough samples were collected from the excavation. Sidewall samples need to be collected along edge of excavation on pad to ensure the release was fully remediated.**
- **"The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water." Especially due to the site being located in a sensitive location, as much contaminated soil as possible should be removed safely with alternative methods (shovel, hydrovac, etc.). Only sample points that could cause a major facility deconstruction will be deferred. Some of the sample points you are requesting for deferral do not appear to cause a major facility deconstruction in order to remediate them. After conducting more remediation, vertical delineation needs to occur at the sample points you are still requesting deferral for. Resubmit report by 8/26/24.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 357695.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells

Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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: 308525
Date: Friday, January 26, 2024 3:38:20 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#) nAPP2224144740.

The sampling event is expected to take place:

When: 02/01/2024 @ 10:00
Where: M-14-31N-09W 790 FSL 1035 FWL (36.8929138,-107.755226)

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

Additional Instructions: Site coordinates 36.8929138, -107.7552261

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: Velez, Nelson, EMNRD
To: Stuart Hyde
Cc: Kate Kaufman
Subject: Re: [EXTERNAL] nAPP2224144740 - Hilcorp Seymour 6 Sampling Notification Variance Request
Date: Thursday, May 16, 2024 1:15:57 PM
Attachments: image001.png
image002.png
image003.png
Outlook-msezd3mz.png

[**EXTERNAL EMAIL**]
Good afternoon Stuart,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Stuart Hyde <shyde@ensolum.com>
Sent: Thursday, May 16, 2024 12:08 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Kate Kaufman <kkaufman@hilcorp.com>
Subject: [EXTERNAL] nAPP2224144740 - Hilcorp Seymour 6 Sampling Notification Variance Request

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

Nelson,

We are requesting a variance of the 2-business day sampling notification requirement set forth in 19.15.29.12(D)(1)(a) in order to collect confirmation samples on Monday May 20, 2024 beginning at 9 AM at the Hilcorp Seymour 6 site. This work will be performed to remove additional impacted soil relating to the recent release at the site and collect additional confirmation soil samples from these areas. Additional delineation activities will also be performed to assess historical impacts discovered during previous sampling events.

Please reach out with any questions regarding the upcoming work. Thanks.

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

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From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, May 16, 2024 11:58 AM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 345146

[**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#) nAPP2224144740.

The sampling event is expected to take place:

When: 05/20/2024 @ 09:00
Where: M-14-31N-09W 790 FSL 1035 FWL (36.8929138,-107.755226)

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

We are requesting a variance of the 2 business day sampling notification requirement set forth in 19.15.29.12(D)(1)(a) in order to collect confirmation samples on Monday May 20, 2024 beginning at 9 AM. This work is to be performed to collect additional confirmation soil samples and additional delineation samples at the site.

Additional Instructions: Seymour 6 well pad, Site coordinates 36.8929138, -107.7552261

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: 345146
Date: Thursday, May 16, 2024 11:58:38 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#) nAPP2224144740.

The sampling event is expected to take place:

When: 05/20/2024 @ 09:00
Where: M-14-31N-09W 790 FSL 1035 FWL (36.8929138,-107.755226)

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

We are requesting a variance of the 2 business day sampling notification requirement set forth in 19.15.29.12(D)(1)(a) in order to collect confirmation samples on Monday May 20, 2024 beginning at 9 AM. This work is to be performed to collect additional confirmation soil samples and additional delineation samples at the site.

Additional Instructions: Seymour 6 well pad, Site coordinates 36.8929138, -107.7552261

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: 398295
Date: Friday, November 1, 2024 4:43:21 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#) nAPP2224144740.

The sampling event is expected to take place:

When: 11/06/2024 @ 09:00
Where: M-14-31N-09W 790 FSL 1035 FWL (36.8929138,-107.755226)

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

Additional Instructions: Seymour 6 well pad, Site coordinates 36.8929138, -107.7552261

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: 398297
Date: Friday, November 1, 2024 4:46:50 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#) nAPP2224144740.

The sampling event is expected to take place:

When: 11/07/2024 @ 09:00
Where: M-14-31N-09W 790 FSL 1035 FWL (36.8929138,-107.755226)

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

Additional Instructions: Seymour 6 well pad, Site coordinates 36.8929138, -107.7552261

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: Velez, Nelson, EMNRD
To: Stuart Hyde; Adeloye, Abiodun A
Cc: Kate Kaufman; Patrick Hudman; Peter Anderson
Subject: Re: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 403521
Date: Friday, November 15, 2024 7:31:25 AM
Attachments: image001.png
image002.png
image003.png
Outlook-zryyxuts.png

[**EXTERNAL EMAIL**]
Good morning Stuart,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Stuart Hyde <shyde@ensolum.com>
Sent: Thursday, November 14, 2024 4:14 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Adeloye, Abiodun A <aadeloye@blm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Kate Kaufman <kkaufman@hilcorp.com>; Patrick Hudman <phudman@hilcorp.com>; Peter

Anderson <panderson@ensolum.com>
Subject: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 403521

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

All,

On behalf of Hilcorp Energy Company, we are requesting a variance of the 2 business day sampling notification requirement set forth in 19.15.29.12(D)(1)(a) in order to collect confirmation samples on Monday November 18, 2024 beginning at 9 AM. This work is to be performed to collect additional confirmation soil samples and additional delineation samples at the site. Several of the previous samples had TPH concentrations exceeding the closure criteria and we are planning to mobilize to the site Monday in attempts to remove additional soil.

Please reach out with any questions or comments regarding the upcoming work. Thanks.

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

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From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, November 14, 2024 4:11 PM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 403521

[**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#) nAPP2224144740.

The sampling event is expected to take place:

When: 11/18/2024 @ 09:00
Where: M-14-31N-09W 790 FSL 1035 FWL (36.8929138,-107.755226)

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

We are requesting a variance of the 2 business day sampling notification requirement set forth in 19.15.29.12(D)(1)(a) in order to collect confirmation samples on Monday November 18, 2024 beginning at 9 AM. This work is to be performed to collect additional confirmation soil

samples.

Additional Instructions: Seymour 6 well pad, Site coordinates 36.8929138, -107.7552261

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: 409275
Date: Friday, December 6, 2024 7:27:11 AM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2224144740.

The sampling event is expected to take place:

When: 12/11/2024 @ 09:00
Where: M-14-31N-09W 790 FSL 1035 FWL (36.8929138,-107.755226)

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

Additional Instructions: Seymour 6 well pad, Site coordinates 36.8929138, -107.7552261

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

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 426242

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 426242
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2224144740**
Incident Name	**NAPP2224144740 SEYMOUR #006 @ 30-045-10684**
Incident Type	**Oil Release**
Incident Status	**Deferral Request Received**
Incident Well	**[30-045-10684] SEYMOUR #006**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SEYMOUR #006
Date Release Discovered	08/18/2022
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
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	Yes
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Crude Oil | Released: 20 BBL | Recovered: 2 BBL | Lost: 18 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Due to the excessive rainfall in the area, the open-top BGT tank on location overflowed causing the oil in the storage vessel to float up and spill into secondary containment, breach a section of the surrounding berm wall, and eventually enter a dry watercourse located immediately adjacent to the site. The unnamed, dry watercourse is considered a wash located within Minix Canyon.

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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 426242
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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:** **(2) an unauthorized release of a volume that:** **(b) may with reasonable probability reach a watercourse.**
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	*Not answered.*
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: 01/29/2025

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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 426242
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Zero feet, overlying, or within area
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 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1700
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	23681
GRO+DRO (EPA SW-846 Method 8015M)	8600
BTEX (EPA SW-846 Method 8021B or 8260B)	88.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0.8
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	12/08/2022
On what date will (or did) the final sampling or liner inspection occur	11/18/2024
On what date will (or was) the remediation complete(d)	11/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	200
What is the estimated volume (in cubic yards) that will be reclaimed	6
What is the estimated surface area (in square feet) that will be remediated	10000
What is the estimated volume (in cubic yards) that will be remediated	1100
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.	

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

General Information
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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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 426242
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	ENVIROTECH LANDFARM #2 [fEEM0112336756]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 01/29/2025
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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 426242
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The Seymour 6 well pad is a shared pad with LOGOS well Seymour #719. As shown on Figure 6 in the report, two well heads and associated production equipment are located on the pad and immediately adjacent and around remaining impacted soil. Equipment includes a pump jack, several electrical utilities, flow lines, and pipelines.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1500
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	170
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	*Not answered.*
Enter the well API (30-) on which this deferral should be granted	30-045-10684 SEYMOUR #006
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
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: 01/29/2025

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QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 426242
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**409275**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**12/11/2024**
What was the (estimated) number of samples that were to be gathered	**2**
What was the sampling surface area in square feet	**10**

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

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CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 426242
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral and variance request are approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	5/15/2025