ENSOLUM

July 17, 2025

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

Re: Remediation Work Plan
LC Kelly 5
Hilcorp Energy Company
NMOCD Incident No: nAPP2502352296

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Work Plan* (Work Plan) for a release at the LC Kelly 5 natural gas production well (Site). The Site is located on federal land managed by the Bureau of Land Management (BLM), in Unit I, Section 3, Township 30 North, Range 12 West, San Juan County, New Mexico (Figure 1). This Work Plan includes a summary of delineation activities performed at the Site and the proposed remediation of impacted soil originating from the release.

SITE BACKGROUND

On January 22, 2025, a Hilcorp contract lease operator discovered a release at the Site during a routine well visit. Frozen fluid was observed pooled around the base of a 400-barrel (bbl) condensate aboveground storage tank (AST). The operator noted the tank was missing approximately 40.08 bbls of fluid based on gauge measurements. There were minor visible signs of leakage on the exterior of the tank; however, the release was determined to have likely resulted from corrosion. The impacted area was confined within the unlined berm and measured approximately 14 feet in diameter around the AST (extending approximately 2 feet around the base of the tank). The remaining fluid in the AST was recovered, but fluid outside the tank was frozen and could not be recovered at the time of discovery.

Hilcorp submitted a *Notification of Release* to the New Mexico Oil Conservation Division (NMOCD) and a *Major Undesirable Event* (MUE) report to the BLM on January 23, 2025. The NMOCD assigned Incident Number nAPP2502352296 to the release.

SITE CHARACTERIZATION

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

GEOLOGY AND HYDROGEOLOGY

The Site is located within the Nacimiento Formation, which is part of the regional stratigraphy of the San Juan Basin. According to *Hydrogeology and Water Resources of San Juan Basin, New Mexico* (Stone et al., 1983), the Nacimiento Formation is composed of interbedded black carbonaceous mudstones and white, coarse-grained sandstones, with a reported thickness ranging from approximately 418 feet to 2,232 feet. The hydrogeologic properties of the Nacimiento Formation are highly variable and dependent on location. Where sufficient groundwater yield exists, the formation is typically utilized for domestic and livestock water supply. The Nacimiento Formation is underlain by the Ojo Alamo Sandstone (Stone et al., 1983).

POTENTIAL SENSITIVE RECEPTORS

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

The nearest significant watercourse to the Site is an intermittent stream located approximately 595 feet southeast of the well pad. To assess Site-specific depth-to-groundwater, borehole BH02 was advanced on May 13, 2025, to a depth of 55 feet below ground surface (bgs). Upon completion of the borehole, a temporary well screen and casing were installed in the open borehole and allowed to equilibrate for 72 hours. A water-level indicator was used to assess for the presence or absence of groundwater on May 16, 2025. Groundwater was not encountered in the borehole, indicating the depth to groundwater beneath the Site is greater than 50 feet bgs. The nearest freshwater well is NMOSE-permitted well SJ-02643 (Appendix A), located approximately 2,058 feet southeast of the Site, with a recorded depth to water of 140 feet bgs. Well SJ-02643 is situated at an elevation of approximately 5,799 feet above mean sea level, which is approximately 26 feet lower in elevation than the Site. Based on this information, depth to groundwater at the Site is estimated to be greater than 100 feet bgs.

The Site is located more than 200 feet from any lakebed, sinkhole, or playa lake, and more than 300 feet from any wetland. No wellhead protection areas, springs, or domestic/stock water wells are located within ½ mile of the Site. Additionally, the Site is not located within a 100-year floodplain, does not overlie a subsurface mine, and is not underlain by unstable geology (the area is designated as low potential karst by the BLM). No schools, hospitals, institutions, churches, or other occupied permanent residences or structures are located within 300 feet of the Site. A Site receptor map is provided as Figure 1.

SITE CLOSURE CRITERIA

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

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

DELINEATION AND SOIL SAMPLING ACTIVITIES

Following discovery of the release, delineation activities were conducted by Ensolum personnel on March 26, 2025. A notification of sampling activities was provided to the NMOCD at least two business days prior to the delineation work and is attached as Appendix B. In total, six potholes (PH01 through PH06) were advanced to depths of up to 12 feet bgs at the Site and one surface sample (SS01) was collected from an area of surface staining adjacent to the AST (Figure 2).

During delineation activities, Ensolum personnel logged soil lithology and field screened for the presence of volatile organic compounds (VOCs) using a calibrated photoionization detector (PID) and chloride using Hach® QuanTab® chloride test strips. Soil descriptions, contamination observations, and field screening results were noted in the field book. Photographs taken during delineation activities are provided in Appendix C. PID field screening results are also included in Table 1.

Based on field screening results and observations, at least two soil samples from each hand auger borehole were collected for laboratory analysis; one from the depth interval with the highest observed contamination and one from the terminus of the borehole. Field screening measurements and soil observations from potholes PH01, PH02, PH03, PH05, and PH06 were generally consistent, with no significant visual or olfactory indicators of contamination. In contrast, pothole PH04 exhibited dark-stained soil, strong hydrocarbon odors, and elevated PID readings up to 1,328 parts per million (ppm). Due to the depth of impacts observed at PH04, three soil samples were collected from this location for laboratory analysis. All samples were collected directly into laboratory-provided jars, preserved on ice, and submitted to Eurofins Environment Testing (Eurofins) under strict chain-of-custody protocol for analysis of BTEX using United States Environmental Protection Agency (EPA) Method 8021B, TPH using EPA Method 8015M/D, and chloride using EPA Method 300.0.

In general, Site lithology consisted of poorly graded sand with varying amounts of silt across all potholes. Based on laboratory analytical results, the highest COC concentrations were detected in pothole PH04, with total BTEX up to 281 mg/kg and total TPH up to 11,300 mg/kg at 12 feet bgs. Pothole PH04 was not advanced beyond this depth due to the excavator reaching limitations and, therefore, vertical delineation at this location remained incomplete. Potholes PH05 and PH06 were advanced north and west of PH04, respectively, and confirmed the limited lateral extent of impacts, which appear to have remained on pad. These elevated concentrations, along with strong hydrocarbon odor and dark soil staining observed during field activities, suggest impacts at PH04 are potentially historical in nature and not reflective of the January 2025 release. One surface soil sample (SS01) was collected from visibly stained material representing the most significant surface expression of the current release; this sample exhibited elevated TPH (10,570 mg/kg) and BTEX (74.7 mg/kg) concentrations. In contrast, samples collected from the remaining potholes were either non-detect or below the NMOCD Table I Closure Criteria, indicating impacts were limited to the surface near SS01 and to the area near PH04.

To further delineate the vertical extent of impacts observed at PH04, Ensolum returned to the Site on May 13 and 14, 2025, with a drill rig operated by Enviro-Drill, Inc. A total of five boreholes (BH01 through BH05) were advanced to depths ranging from 35 feet to 55 feet bgs. Soil samples were collected from each borehole and submitted to Envirotech, Inc. (Envirotech) for laboratory analysis of BTEX, TPH, and chloride to characterize the extent of vertical impacts. Based on the analytical results, exceedances of NMOCD Table I Closure Criteria were identified only in borehole BH01, located directly next to pothole PH04, with TPH GRO+DRO reported at 1,168 mg/kg at a depth of 25 feet bgs. No exceedances were identified in the remaining boreholes, indicating that impacts are vertically limited to the area surrounding PH04.

Borehole BH02 was advanced to a total depth of 55 feet bgs to assess whether groundwater may be present at depths less than 50 feet. Ensolum personnel returned to the Site 72 hours following

borehole completion on May 16, 2025, to check for the presence of water. BH02 remained dry, confirming the depth to groundwater at the Site is greater than 50 feet bgs. A photograph documenting the interface probe measurement confirming a total borehole depth of 54 feet bgs with no indication of groundwater is included in the photolog provided in Appendix C. A summary of analytical results is presented in Table 1 and Figure 2, with full laboratory reports provided in Appendix D.

REMEDIATION WORK PLAN

Based on the soil sampling results described above, it is estimated impacted soil is present at the Site from the ground surface to a depth exceeding 25 feet bgs. Analytical results indicate impacts are likely confined to the immediate area of the release and the zone of historical impacts near PH04/BH01, with an approximate areal extent of 425 square feet. Based on these estimates, approximately 425 cubic yards of impacted soil are present at the Site.

Hilcorp proposes to excavate impacted soil from the Site to achieve compliance with NMOCD Closure Criteria. Excavated soil will be transported off-site for treatment at the Envirotech landfarm. Due to the depth of excavation exceeding 20 feet, the excavation will be conducted in accordance with an engineered shoring and benching design prepared by GEOMAT Engineering. The excavation design is included as Appendix E. As shown in the design, benching and shoring requirements will result in lateral expansion of the excavation footprint beyond the existing well pad boundary. As such, Hilcorp will request approval for off-pad disturbance from the BLM prior to initiating excavation activities.

Following removal of impacted soil as indicated by field screening, 5-point composite confirmation samples will be collected from the excavation floor and sidewalls at a frequency of at least one sample per 200 square feet. Each composite will be collected by combining five equal aliquots of soil in a 1-gallon resealable plastic bag and homogenizing the sample. Once confirmed impacted soil has been removed, the excavation will be backfilled with clean imported soil and recontoured to match pre-existing conditions at the Site.

Hilcorp will complete the excavation and soil sampling activities within 90 days of the date of approval of this Work Plan by the NMOCD and BLM. A *Closure Request* will be submitted within 60 days of receipt of final laboratory analytical results.

REFERENCES

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

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

Sincerely,
Ensolum, LLC

Wes Weichert, PG (licensed in WY & TX)
Senior Geologist
(816) 266-8732
wweichert@ensolum.com

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

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Cc: **BLM**
Hilcorp

Attachments:

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

Table 1: Soil Sample Analytical Results

Appendix A: NMOSE Point of Diversion Summary
Appendix B: Agency Correspondence
Appendix C: Photographic Log
Appendix D: Laboratory Analytical Reports
Appendix E: Remediation Excavation Concept

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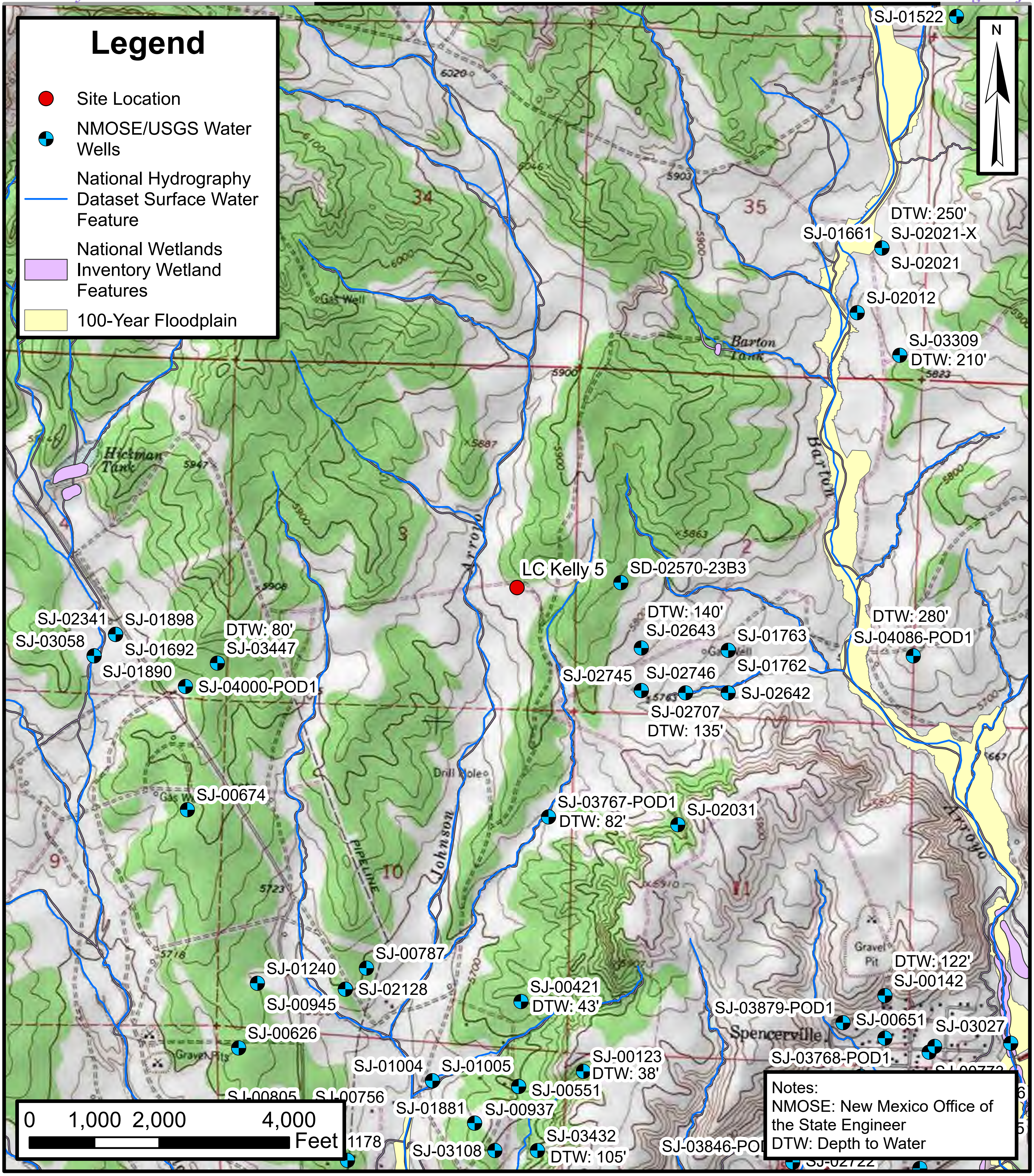
Figures



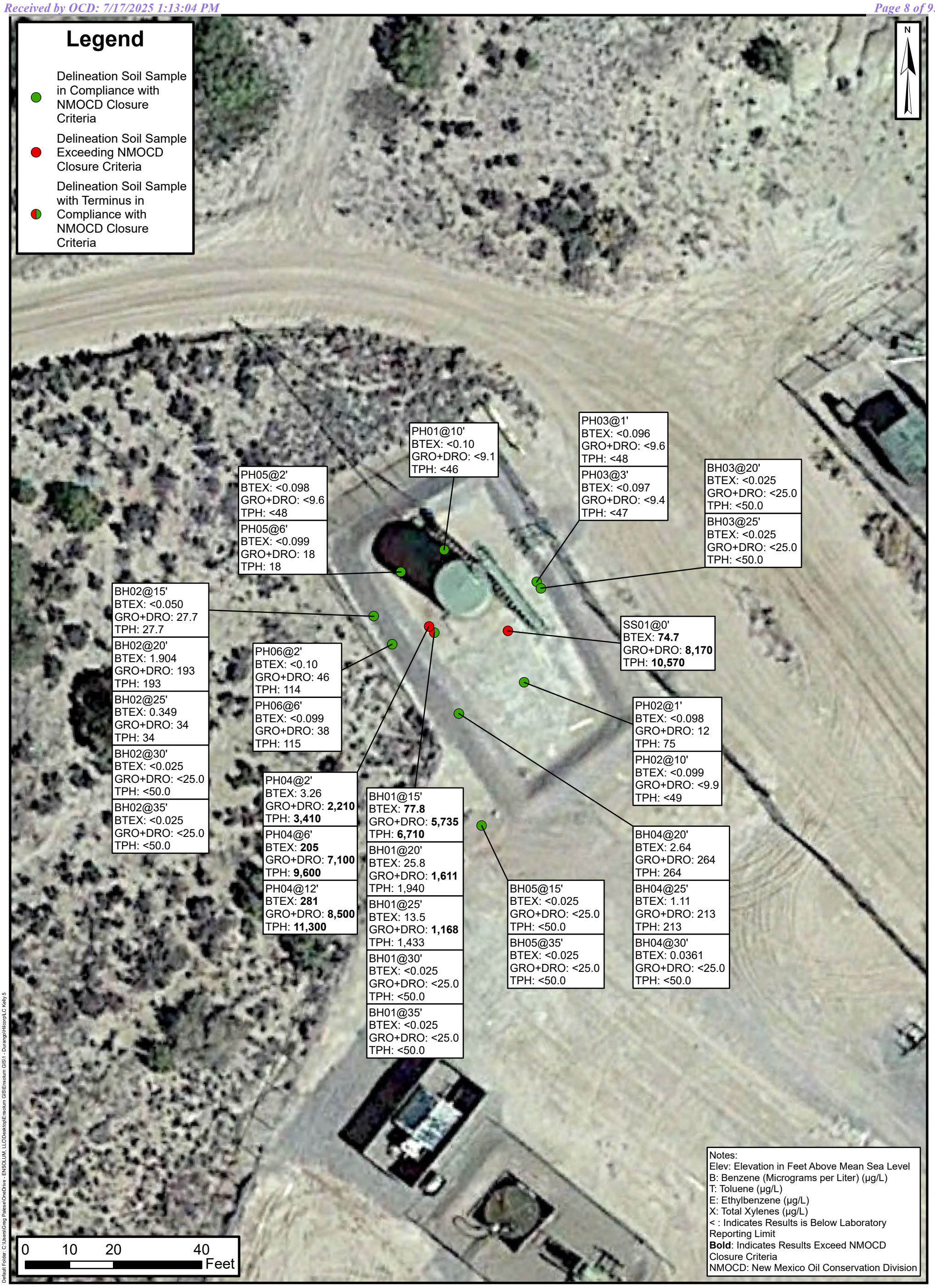
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

LC Kelly 5
Hilcorp Energy Company
36.838877 -108.079210
San Juan County, New Mexico

FIGURE
1

Sources: Environmental Systems Research Institute (ESRI), United States Geologic Survey (USGS), United States Fish and Wildlife Service (USFWS), National Geographic Society, i-cubed



Default Folder: C:\Users\Greg Pelsel\OneDrive - ENSOLUM, LLC\Desktop\Ensolum GIS\Ensolum GIS\1 - Durango\Hilcorp\LC Kelly 5

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Environmental, Engineering and Hydrogeologic Consultants

Delineation Sample Location Map

LC Kelly 5
Hilcorp Energy Company

36.838877 -108.079210
San Juan County, New Mexico

FIGURE

2

Sources: Google Earth (2019)

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Tables

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
LC Kelly #5
Hilcorp Energy Company
San Juan County, New Mexico

Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (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	**1,000**	**2,500**	**20,000**
Pothole Delineation Samples														
PH01@2'	3/26/2025	2.0	11.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	20	<50	20	20	<61
PH01@10'	3/26/2025	10.0	10.2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<9.1	<46	<60
SS01@0'	3/26/2025	0.0	390.7	<2.4	<4.9	5.7	69	**74.7**	970	7,200	2,400	**8,170**	**10,570**	<60
PH02@1'	3/26/2025	1.0	14.9	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	12	63	12	75	<60
PH02@10'	3/26/2025	10.0	9.1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<49	<9.9	<49	<60
PH03@1'	3/26/2025	1.0	31.7	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<9.6	<48	<60
PH03@3'	3/26/2025	3.0	31.7	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<9.4	<47	<60
PH04@2'	3/26/2025	2.0	914.7	<0.12	<0.25	0.56	2.7	3.26	310	2,300	800	**2,610**	**3,410**	<60
PH04@6'	3/26/2025	6.0	1,328	<0.46	<0.92	15	190	**205**	2,200	4,900	2,500	**7,100**	**9,600**	<60
PH04@12'	3/26/2025	12.0	1,117	<0.47	<0.94	21	260	**281**	3,200	5,300	2,800	**8,500**	**11,300**	<60
PH05@2'	3/26/2025	2.0	29.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<9.6	<48	<60
PH05@6'	3/26/2025	6.0	14	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	18	<47	18	18	<61
PH06@2'	3/26/2025	2.0	14	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	46	68	46	114	<61
PH06@6'	3/26/2025	6.0	13.8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	38	77	38	115	<60
Drilling Delineation Samples														
BH01 @ 15'	5/13/2025	15	2,739	0.109	0.939	8.71	68.0	**77.8**	665	5,070	975	**5,735**	**6,710**	<40
BH01 @ 20'	5/13/2025	20	916.8	0.309	0.681	2.98	21.8	25.8	451	1,160	329	**1,611**	1,940	<20
BH01 @ 25'	5/13/2025	25	1,577	0.115	0.206	1.21	12.0	13.5	170	998	265	**1,168**	1,433	32.3
BH01 @ 30'	5/13/2025	30	201.7	<0.025	<0.025	<0.025	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	21.3
BH01 @ 35'	5/13/2025	35	110.3	<0.025	<0.025	<0.025	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH02 @15'	5/13/2025	15	445.2	<0.025	<0.025	<0.025	<0.025	<0.050	<20.0	27.7	<50.0	27.7	27.7	<200
BH02 @ 20'	5/13/2025	20	1,897	<0.025	0.109	0.275	1.52	1.904	80.7	112	<50.0	193	193	<20
BH02 @25'	5/13/2025	25	936.5	<0.025	<0.025	0.0513	0.298	0.349	<20.0	34.0	<50.0	34.0	34.0	<40
BH02 @30'	5/13/2025	30	372.7	<0.025	<0.025	<0.025	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<40
BH02 @35'	5/13/2025	35	33.8	<0.025	<0.025	<0.025	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH03 @ 20'	5/13/2025	20	391.2	<0.025	<0.025	<0.025	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	29.0
BH03 @ 25'	5/13/2025	25	13.7	<0.025	<0.025	<0.025	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	31.1
BH04 @ 20'	5/13/2025	10	1,083	<0.025	0.154	0.389	2.10	2.64	104	160	<50.0	264	264	<100
BH04 @ 25'	5/13/2025	25	1,423	<0.025	0.0502	0.114	0.949	1.11	29.9	183	<50.0	213	213	<40
BH04 @ 30'	5/13/2025	30	49.7	<0.025	0.0361	<0.025	<0.025	0.0361	<20.0	<25.0	<50.0	<25.0	<50.0	<40
BH05 @ 15'	5/14/2025	15	24.8	<0.025	<0.025	<0.025	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH05 @ 35'	5/14/2025	35	6.1	<0.025	<0.025	<0.025	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<100

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/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon
': Feet
< : Indicates result less than the stated laboratory reporting limit (RL)
*Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release*

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APPENDIX A

NMOSE Point of Diversion

Revised June 1972

229400

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Rodney Mast Owner's Well No. _____
Street or Post Office Address 26 Rd 5577
City and State Farmington N.M. 87401

Well was drilled under Permit No. SJ-2643 and is located in the:

a. NE ¼ SW ¼ SW ¼ — ¼ of Section 2 Township 30N Range 12W N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Bob Savage License No. WD-847

Address PO, Box 2434 Farmington, NM. 87499

Drilling Began 7-10-95 Completed 7-25-95 Type tools Cable Tool Size of hole 6 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 195 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 140 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
155	157	2	Water Sand & Gravel	2

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
4½	1	PVC			196	None	156	196

96 AUG 21 AM 11:46 STATE ENGINEER OFFICE ALBUQUERQUE, NM

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:
_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 8-21-96

Quad _____ FWL _____ FSL _____

File No. SJ-2643 Use Dom Location No. 30N.12W.2.332

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	12	12	SAND
12	31	19	SAND Stone
31	43	12	Shale GRAY
43	65	22	Shale DARK GRAY
65	155	90	SAND Shale
155	157	2	WATER SAND & GRAVEL
157	195	38	SAND Shale

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Bob Savage
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

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APPENDIX B

Agency Correspondence

From: Stuart Hyde
To: Wes Weichert
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 444333
Date: Thursday, March 20, 2025 2:39:39 PM
Attachments: image001.png
image002.png
image003.png
image004.jpg

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

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

---

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, March 20, 2025 2:09 PM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 444333

[**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#) nAPP2502352296.

The sampling event is expected to take place:

When: 03/26/2025 @ 09:00
Where: I-03-30N-12W 1790 FSL 915 FEL (36.838877,-108.07921)

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

Additional Instructions: LC Kelly 5 (36.838877 -108.07921) Pothole delineation with backhoe, number of samples is estimated.

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

- **Failure to notify the OCD of sampling events including any changes in**

date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

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

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

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 458582
Date: Monday, May 5, 2025 12:32:10 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#) nAPP2502352296.

The sampling event is expected to take place:

When: 05/12/2025 @ 09:00
Where: I-03-30N-12W 1790 FSL 915 FEL (36.838877,-108.07921)

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

Additional Instructions: LC Kelly 5 (36.838877 -108.07921) This work will take place on 05/12/2025, 05/13/2025, and 05/14/2025 at 9:00 am each day. Delineation drilling and sampling, number of samples is estimated.

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

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

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

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

ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
Hilcorp Energy Company
LC Kelly 5
nAPP2502352296

Photograph: 1 Date: 3/26/2025
Description: PH04 with staining.
View: West

Photograph: 2 Date: 5/13/2025
Description: Complete BH01.
View: South

Photograph: 3 Date: 5/13/2025
Description: Drilling BH02.
View: East / Southeast

Photograph: 4 Date: 5/16/2025
Description: Open BH02 with total depth 54' BGS and no water reading on interface probe

ENSOLUM

APPENDIX D

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499
Generated 4/4/2025 4:38:42 PM

JOB DESCRIPTION

LC Kelly 5

JOB NUMBER

885-22164-1

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
4/4/2025 4:38:42 PM

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

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Laboratory Job ID: 885-22164-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

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: LC Kelly 5

Job ID: 885-22164-1

Job ID: 885-22164-1 Eurofins Albuquerque

Job Narrative
885-22164-1

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

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

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

Receipt
The samples were received on 3/27/2025 7:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°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: Surrogate recovery for the following samples is outside the upper control limit: (CCV 885-23268/84) and (CCV 885-23268/87). Due to the high bias found in these CCV, associated samples with passing surrogate will be reported and any samples with hits for target analytes with high surrogate will be reran.

Method 8015D_DRO: The following samples required a dilution due to the nature of the sample matrix: SS01@0' (885-22164-3), PH04@6' (885-22164-9) and PH04@12' (885-22164-10). 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 to bring the concentration of target analytes within the calibration range: PH04@2' (885-22164-8). Elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: PH04@2' (885-22164-8)

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: PH04@2' (885-22164-8). 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: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH01@2'

Date Collected: 03/26/25 09:10
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-1

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		5.0		mg/Kg		03/28/25 10:38	03/31/25 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*03/28/25 10:38*	*03/31/25 18:16*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/28/25 10:38	03/31/25 18:16	1
Ethylbenzene	ND		0.050		mg/Kg		03/28/25 10:38	03/31/25 18:16	1
Toluene	ND		0.050		mg/Kg		03/28/25 10:38	03/31/25 18:16	1
Xylenes, Total	ND		0.099		mg/Kg		03/28/25 10:38	03/31/25 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*03/28/25 10:38*	*03/31/25 18:16*	*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]	**20**		10		mg/Kg		03/28/25 15:26	03/29/25 01:38	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/28/25 15:26	03/29/25 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*126*		*62 - 134*	*03/28/25 15:26*	*03/29/25 01:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		03/28/25 08:29	03/28/25 16:48	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH01@10'

Date Collected: 03/26/25 09:15
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-2

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		5.0		mg/Kg		03/28/25 10:38	03/31/25 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*03/28/25 10:38*	*03/31/25 19:21*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/28/25 10:38	03/31/25 19:21	1
Ethylbenzene	ND		0.050		mg/Kg		03/28/25 10:38	03/31/25 19:21	1
Toluene	ND		0.050		mg/Kg		03/28/25 10:38	03/31/25 19:21	1
Xylenes, Total	ND		0.10		mg/Kg		03/28/25 10:38	03/31/25 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*03/28/25 10:38*	*03/31/25 19:21*	*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		03/28/25 15:26	03/29/25 01:49	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/28/25 15:26	03/29/25 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*118*		*62 - 134*	*03/28/25 15:26*	*03/29/25 01:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 08:29	03/28/25 17:02	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: SS01@0'

Date Collected: 03/26/25 09:25
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-3

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]	970		490		mg/Kg		03/28/25 10:38	04/01/25 19:46	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*		*35 - 166*	*03/28/25 10:38*	*04/01/25 19:46*	*100*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.4		mg/Kg		03/28/25 10:38	04/01/25 19:46	100
Ethylbenzene	5.7		4.9		mg/Kg		03/28/25 10:38	04/01/25 19:46	100
Toluene	ND		4.9		mg/Kg		03/28/25 10:38	04/01/25 19:46	100
Xylenes, Total	69		9.8		mg/Kg		03/28/25 10:38	04/01/25 19:46	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*	*03/28/25 10:38*	*04/01/25 19:46*	*100*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7200		100		mg/Kg		03/28/25 15:26	04/01/25 10:37	10
Motor Oil Range Organics [C28-C40]	2400		500		mg/Kg		03/28/25 15:26	04/01/25 10:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*03/28/25 15:26*	*04/01/25 10:37*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 08:29	03/28/25 17:16	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH02@1'

Date Collected: 03/26/25 09:30
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-4

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		4.9		mg/Kg		03/28/25 10:38	04/01/25 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*03/28/25 10:38*	*04/01/25 19:03*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/28/25 10:38	04/01/25 19:03	1
Ethylbenzene	ND		0.049		mg/Kg		03/28/25 10:38	04/01/25 19:03	1
Toluene	ND		0.049		mg/Kg		03/28/25 10:38	04/01/25 19:03	1
Xylenes, Total	ND		0.098		mg/Kg		03/28/25 10:38	04/01/25 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*03/28/25 10:38*	*04/01/25 19:03*	*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]	**12**		9.3		mg/Kg		03/28/25 15:26	04/01/25 09:16	1
Motor Oil Range Organics [C28-C40]	**63**		47		mg/Kg		03/28/25 15:26	04/01/25 09:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*131*		*62 - 134*	*03/28/25 15:26*	*04/01/25 09:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 08:29	03/28/25 17:29	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH02@10'

Date Collected: 03/26/25 09:45
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-5

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		03/28/25 10:38	03/31/25 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*03/28/25 10:38*	*03/31/25 21:09*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/28/25 10:38	03/31/25 21:09	1
Ethylbenzene	ND		0.050		mg/Kg		03/28/25 10:38	03/31/25 21:09	1
Toluene	ND		0.050		mg/Kg		03/28/25 10:38	03/31/25 21:09	1
Xylenes, Total	ND		0.099		mg/Kg		03/28/25 10:38	03/31/25 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*03/28/25 10:38*	*03/31/25 21:09*	*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		9.9		mg/Kg		03/28/25 15:26	04/04/25 15:02	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/28/25 15:26	04/04/25 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*128*		*62 - 134*	*03/28/25 15:26*	*04/04/25 15:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 08:29	03/28/25 17:43	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH03@1'

Date Collected: 03/26/25 10:00
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-6

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		4.8		mg/Kg		03/28/25 10:38	03/31/25 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*03/28/25 10:38*	*03/31/25 21:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/28/25 10:38	03/31/25 21:30	1
Ethylbenzene	ND		0.048		mg/Kg		03/28/25 10:38	03/31/25 21:30	1
Toluene	ND		0.048		mg/Kg		03/28/25 10:38	03/31/25 21:30	1
Xylenes, Total	ND		0.096		mg/Kg		03/28/25 10:38	03/31/25 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*03/28/25 10:38*	*03/31/25 21:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		03/28/25 15:26	03/29/25 02:47	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/28/25 15:26	03/29/25 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*62 - 134*	*03/28/25 15:26*	*03/29/25 02:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 08:29	03/28/25 17:56	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH03@3'

Date Collected: 03/26/25 10:10
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-7

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		03/28/25 10:38	03/31/25 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*03/28/25 10:38*	*03/31/25 21:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/28/25 10:38	03/31/25 21:52	1
Ethylbenzene	ND		0.049		mg/Kg		03/28/25 10:38	03/31/25 21:52	1
Toluene	ND		0.049		mg/Kg		03/28/25 10:38	03/31/25 21:52	1
Xylenes, Total	ND		0.097		mg/Kg		03/28/25 10:38	03/31/25 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*03/28/25 10:38*	*03/31/25 21:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		03/28/25 15:26	03/29/25 02:59	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/28/25 15:26	03/29/25 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*120*		*62 - 134*	*03/28/25 15:26*	*03/29/25 02:59*	*1*
Di-n-octyl phthalate (Surr)	*119*		*62 - 134*	*03/28/25 15:26*	*04/01/25 09:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 09:04	03/29/25 00:19	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH04@2'

Date Collected: 03/26/25 10:15
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-8

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]	310		25		mg/Kg		03/28/25 10:38	03/31/25 22:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*197*	*S1+*	*35 - 166*	*03/28/25 10:38*	*03/31/25 22:14*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.12		mg/Kg		03/28/25 10:38	03/31/25 22:14	5
Ethylbenzene	0.56		0.25		mg/Kg		03/28/25 10:38	03/31/25 22:14	5
Toluene	ND		0.25		mg/Kg		03/28/25 10:38	03/31/25 22:14	5
Xylenes, Total	2.7		0.50		mg/Kg		03/28/25 10:38	03/31/25 22:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*		*48 - 145*	*03/28/25 10:38*	*03/31/25 22:14*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2300		99		mg/Kg		03/28/25 15:26	04/02/25 13:32	10
Motor Oil Range Organics [C28-C40]	800		490		mg/Kg		03/28/25 15:26	04/02/25 13:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*03/28/25 15:26*	*04/02/25 13:32*	*10*
Di-n-octyl phthalate (Surr)	*0*	*D S1-*	*62 - 134*	*03/28/25 15:26*	*04/03/25 14:42*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 09:04	03/29/25 01:00	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH04@6'

Date Collected: 03/26/25 10:20
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-9

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]	2200		92		mg/Kg		03/28/25 10:38	03/31/25 22:35	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*223*	*S1+*	*35 - 166*	*03/28/25 10:38*	*03/31/25 22:35*	*20*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.46		mg/Kg		03/28/25 10:38	03/31/25 22:35	20
Ethylbenzene	15		0.92		mg/Kg		03/28/25 10:38	03/31/25 22:35	20
Toluene	ND		0.92		mg/Kg		03/28/25 10:38	03/31/25 22:35	20
Xylenes, Total	190		1.8		mg/Kg		03/28/25 10:38	03/31/25 22:35	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*		*48 - 145*	*03/28/25 10:38*	*03/31/25 22:35*	*20*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4900		94		mg/Kg		03/28/25 15:26	04/01/25 15:18	10
Motor Oil Range Organics [C28-C40]	2500		470		mg/Kg		03/28/25 15:26	04/01/25 15:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*D S1-*	*62 - 134*	*03/28/25 15:26*	*04/01/25 15:18*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 09:04	03/29/25 01:14	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH04@12'

Date Collected: 03/26/25 10:30
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-10

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]	**3200**		94		mg/Kg		03/28/25 10:38	03/31/25 22:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*244*	*S1+*	*35 - 166*	*03/28/25 10:38*	*03/31/25 22:57*	*20*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.47		mg/Kg		03/28/25 10:38	03/31/25 22:57	20
Ethylbenzene	**21**		0.94		mg/Kg		03/28/25 10:38	03/31/25 22:57	20
Toluene	ND		0.94		mg/Kg		03/28/25 10:38	03/31/25 22:57	20
Xylenes, Total	**260**		19		mg/Kg		03/28/25 10:38	04/01/25 19:25	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*48 - 145*	*03/28/25 10:38*	*03/31/25 22:57*	*20*
4-Bromofluorobenzene (Surr)	*113*		*48 - 145*	*03/28/25 10:38*	*04/01/25 19:25*	*200*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5300**		91		mg/Kg		03/28/25 15:26	04/01/25 15:30	10
Motor Oil Range Organics [C28-C40]	**2800**		460		mg/Kg		03/28/25 15:26	04/01/25 15:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*D S1-*	*62 - 134*	*03/28/25 15:26*	*04/01/25 15:30*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 09:04	03/29/25 01:27	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH05@2'

Date Collected: 03/26/25 10:35
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-11

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		03/28/25 10:38	03/31/25 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*03/28/25 10:38*	*03/31/25 23:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/28/25 10:38	03/31/25 23:40	1
Ethylbenzene	ND		0.049		mg/Kg		03/28/25 10:38	03/31/25 23:40	1
Toluene	ND		0.049		mg/Kg		03/28/25 10:38	03/31/25 23:40	1
Xylenes, Total	ND		0.098		mg/Kg		03/28/25 10:38	03/31/25 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*03/28/25 10:38*	*03/31/25 23:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		03/28/25 15:26	04/01/25 09:39	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/28/25 15:26	04/01/25 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*122*		*62 - 134*	*03/28/25 15:26*	*04/01/25 09:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 09:04	03/29/25 01:41	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH05@6'

Date Collected: 03/26/25 10:40
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-12

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		03/28/25 10:38	04/01/25 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*03/28/25 10:38*	*04/01/25 00:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/28/25 10:38	04/01/25 00:02	1
Ethylbenzene	ND		0.050		mg/Kg		03/28/25 10:38	04/01/25 00:02	1
Toluene	ND		0.050		mg/Kg		03/28/25 10:38	04/01/25 00:02	1
Xylenes, Total	ND		0.099		mg/Kg		03/28/25 10:38	04/01/25 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*03/28/25 10:38*	*04/01/25 00:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**18**		9.4		mg/Kg		03/28/25 15:26	04/01/25 09:50	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/28/25 15:26	04/01/25 09:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*124*		*62 - 134*	*03/28/25 15:26*	*04/01/25 09:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		03/28/25 09:04	03/29/25 01:54	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH06@2'

Date Collected: 03/26/25 10:45
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-13

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		03/28/25 10:38	04/01/25 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*03/28/25 10:38*	*04/01/25 00:23*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/28/25 10:38	04/01/25 00:23	1
Ethylbenzene	ND		0.050		mg/Kg		03/28/25 10:38	04/01/25 00:23	1
Toluene	ND		0.050		mg/Kg		03/28/25 10:38	04/01/25 00:23	1
Xylenes, Total	ND		0.10		mg/Kg		03/28/25 10:38	04/01/25 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*03/28/25 10:38*	*04/01/25 00:23*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**46**		9.8		mg/Kg		03/28/25 15:26	04/01/25 10:02	1
Motor Oil Range Organics [C28-C40]	**68**		49		mg/Kg		03/28/25 15:26	04/01/25 10:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*127*		*62 - 134*	*03/28/25 15:26*	*04/01/25 10:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		03/28/25 09:04	03/29/25 02:08	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH06@6'

Date Collected: 03/26/25 10:50
Date Received: 03/27/25 07:10

Lab Sample ID: 885-22164-14

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		4.8		mg/Kg		03/28/25 10:38	04/01/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*03/28/25 10:38*	*04/01/25 00:45*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/28/25 10:38	04/01/25 00:45	1
Ethylbenzene	ND		0.048		mg/Kg		03/28/25 10:38	04/01/25 00:45	1
Toluene	ND		0.048		mg/Kg		03/28/25 10:38	04/01/25 00:45	1
Xylenes, Total	ND		0.096		mg/Kg		03/28/25 10:38	04/01/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*03/28/25 10:38*	*04/01/25 00:45*	*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]	**38**		9.7		mg/Kg		03/28/25 15:26	04/01/25 10:14	1
Motor Oil Range Organics [C28-C40]	**77**		48		mg/Kg		03/28/25 15:26	04/01/25 10:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*130*		*62 - 134*	*03/28/25 15:26*	*04/01/25 10:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/28/25 09:04	03/29/25 02:22	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

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

Lab Sample ID: MB 885-23275/1-A
Matrix: Solid
Analysis Batch: 23417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23275

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		03/28/25 10:38	03/31/25 17:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*03/28/25 10:38*	*03/31/25 17:54*	*1*

Lab Sample ID: LCS 885-23275/2-A
Matrix: Solid
Analysis Batch: 23417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23275

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	26.7		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*205*		*35 - 166*

Lab Sample ID: 885-22164-1 MS
Matrix: Solid
Analysis Batch: 23417

Client Sample ID: PH01@2'
Prep Type: Total/NA
Prep Batch: 23275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		24.9	24.3		mg/Kg		98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*201*		*35 - 166*

Lab Sample ID: 885-22164-1 MSD
Matrix: Solid
Analysis Batch: 23417

Client Sample ID: PH01@2'
Prep Type: Total/NA
Prep Batch: 23275

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	25.4		mg/Kg		102	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*202*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-23275/1-A
Matrix: Solid
Analysis Batch: 23416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23275

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/28/25 10:38	03/31/25 17:54	1
Ethylbenzene	ND		0.050		mg/Kg		03/28/25 10:38	03/31/25 17:54	1
Toluene	ND		0.050		mg/Kg		03/28/25 10:38	03/31/25 17:54	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

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

Lab Sample ID: MB 885-23275/1-A
Matrix: Solid
Analysis Batch: 23416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23275

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		03/28/25 10:38	03/31/25 17:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*03/28/25 10:38*	*03/31/25 17:54*	*1*

Lab Sample ID: LCS 885-23275/3-A
Matrix: Solid
Analysis Batch: 23416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23275

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.03		mg/Kg		103	70 - 130		
Ethylbenzene			1.00	1.00		mg/Kg		100	70 - 130		
m&p-Xylene			2.00	2.02		mg/Kg		101	70 - 130		
o-Xylene			1.00	0.992		mg/Kg		99	70 - 130		
Toluene			1.00	1.01		mg/Kg		101	70 - 130		
Xylenes, Total			3.00	3.02		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*

Lab Sample ID: 885-22164-2 MS
Matrix: Solid
Analysis Batch: 23416

Client Sample ID: PH01@10'
Prep Type: Total/NA
Prep Batch: 23275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.998	1.02		mg/Kg		103	70 - 130		
Ethylbenzene	ND		0.998	1.02		mg/Kg		103	70 - 130		
m&p-Xylene	ND		2.00	2.05		mg/Kg		103	70 - 130		
o-Xylene	ND		0.998	1.03		mg/Kg		103	70 - 130		
Toluene	ND		0.998	1.00		mg/Kg		101	70 - 130		
Xylenes, Total	ND		2.99	3.08		mg/Kg		103	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*

Lab Sample ID: 885-22164-2 MSD
Matrix: Solid
Analysis Batch: 23416

Client Sample ID: PH01@10'
Prep Type: Total/NA
Prep Batch: 23275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.996	1.02		mg/Kg		103	70 - 130	0	20
Ethylbenzene	ND		0.996	1.04		mg/Kg		104	70 - 130	2	20
m&p-Xylene	ND		1.99	2.07		mg/Kg		104	70 - 130	1	20
o-Xylene	ND		0.996	1.03		mg/Kg		103	70 - 130	0	20
Toluene	ND		0.996	1.00		mg/Kg		101	70 - 130	0	20
Xylenes, Total	ND		2.99	3.10		mg/Kg		104	70 - 130	1	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

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

Lab Sample ID: 885-22164-2 MSD
Matrix: Solid
Analysis Batch: 23416

Client Sample ID: PH01@10'
Prep Type: Total/NA
Prep Batch: 23275

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*

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

Lab Sample ID: MB 885-23310/1-A
Matrix: Solid
Analysis Batch: 23268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23310

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/28/25 15:26	03/29/25 00:39	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/28/25 15:26	03/29/25 00:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*03/28/25 15:26*	*03/29/25 00:39*	*1*

Lab Sample ID: LCS 885-23310/2-A
Matrix: Solid
Analysis Batch: 23268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	41.3		mg/Kg		83	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-23258/1-A
Matrix: Solid
Analysis Batch: 23272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23258

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		03/28/25 08:29	03/28/25 11:21	1

Lab Sample ID: LCS 885-23258/2-A
Matrix: Solid
Analysis Batch: 23272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23258

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.0		mg/Kg		100	90 - 110		

Lab Sample ID: MB 885-23259/1-A
Matrix: Solid
Analysis Batch: 23272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23259

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		03/28/25 09:04	03/28/25 18:10	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-23259/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 23272 — **Prep Batch: 23259**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	15.1		mg/Kg		101	90 - 110

Lab Sample ID: LLCS 885-23259/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 23272 — **Prep Batch: 23259**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.50	1.58		mg/Kg		105	50 - 150

Lab Sample ID: 885-22164-7 MS — **Client Sample ID: PH03@3'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 23272 — **Prep Batch: 23259**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		29.7	ND		mg/Kg		NC	50 - 150

Lab Sample ID: 885-22164-7 MSD — **Client Sample ID: PH03@3'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 23272 — **Prep Batch: 23259**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.1	ND		mg/Kg		NC	50 - 150	NC	20

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

GC VOA

Prep Batch: 23275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-1	PH01@2'	Total/NA	Solid	5030C	
885-22164-2	PH01@10'	Total/NA	Solid	5030C	
885-22164-3	SS01@0'	Total/NA	Solid	5030C	
885-22164-4	PH02@1'	Total/NA	Solid	5030C	
885-22164-5	PH02@10'	Total/NA	Solid	5030C	
885-22164-6	PH03@1'	Total/NA	Solid	5030C	
885-22164-7	PH03@3'	Total/NA	Solid	5030C	
885-22164-8	PH04@2'	Total/NA	Solid	5030C	
885-22164-9	PH04@6'	Total/NA	Solid	5030C	
885-22164-10	PH04@12'	Total/NA	Solid	5030C	
885-22164-11	PH05@2'	Total/NA	Solid	5030C	
885-22164-12	PH05@6'	Total/NA	Solid	5030C	
885-22164-13	PH06@2'	Total/NA	Solid	5030C	
885-22164-14	PH06@6'	Total/NA	Solid	5030C	
MB 885-23275/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-23275/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-23275/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-22164-1 MS	PH01@2'	Total/NA	Solid	5030C	
885-22164-1 MSD	PH01@2'	Total/NA	Solid	5030C	
885-22164-2 MS	PH01@10'	Total/NA	Solid	5030C	
885-22164-2 MSD	PH01@10'	Total/NA	Solid	5030C	

Analysis Batch: 23416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-1	PH01@2'	Total/NA	Solid	8021B	23275
885-22164-2	PH01@10'	Total/NA	Solid	8021B	23275
885-22164-5	PH02@10'	Total/NA	Solid	8021B	23275
885-22164-6	PH03@1'	Total/NA	Solid	8021B	23275
885-22164-7	PH03@3'	Total/NA	Solid	8021B	23275
885-22164-8	PH04@2'	Total/NA	Solid	8021B	23275
885-22164-9	PH04@6'	Total/NA	Solid	8021B	23275
885-22164-10	PH04@12'	Total/NA	Solid	8021B	23275
885-22164-11	PH05@2'	Total/NA	Solid	8021B	23275
885-22164-12	PH05@6'	Total/NA	Solid	8021B	23275
885-22164-13	PH06@2'	Total/NA	Solid	8021B	23275
885-22164-14	PH06@6'	Total/NA	Solid	8021B	23275
MB 885-23275/1-A	Method Blank	Total/NA	Solid	8021B	23275
LCS 885-23275/3-A	Lab Control Sample	Total/NA	Solid	8021B	23275
885-22164-2 MS	PH01@10'	Total/NA	Solid	8021B	23275
885-22164-2 MSD	PH01@10'	Total/NA	Solid	8021B	23275

Analysis Batch: 23417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-1	PH01@2'	Total/NA	Solid	8015M/D	23275
885-22164-2	PH01@10'	Total/NA	Solid	8015M/D	23275
885-22164-5	PH02@10'	Total/NA	Solid	8015M/D	23275
885-22164-6	PH03@1'	Total/NA	Solid	8015M/D	23275
885-22164-7	PH03@3'	Total/NA	Solid	8015M/D	23275
885-22164-8	PH04@2'	Total/NA	Solid	8015M/D	23275
885-22164-9	PH04@6'	Total/NA	Solid	8015M/D	23275
885-22164-10	PH04@12'	Total/NA	Solid	8015M/D	23275

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

GC VOA (Continued)

Analysis Batch: 23417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-11	PH05@2'	Total/NA	Solid	8015M/D	23275
885-22164-12	PH05@6'	Total/NA	Solid	8015M/D	23275
885-22164-13	PH06@2'	Total/NA	Solid	8015M/D	23275
885-22164-14	PH06@6'	Total/NA	Solid	8015M/D	23275
MB 885-23275/1-A	Method Blank	Total/NA	Solid	8015M/D	23275
LCS 885-23275/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	23275
885-22164-1 MS	PH01@2'	Total/NA	Solid	8015M/D	23275
885-22164-1 MSD	PH01@2'	Total/NA	Solid	8015M/D	23275

Analysis Batch: 23541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-3	SS01@0'	Total/NA	Solid	8015M/D	23275
885-22164-4	PH02@1'	Total/NA	Solid	8015M/D	23275

Analysis Batch: 23542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-3	SS01@0'	Total/NA	Solid	8021B	23275
885-22164-4	PH02@1'	Total/NA	Solid	8021B	23275
885-22164-10	PH04@12'	Total/NA	Solid	8021B	23275

GC Semi VOA

Analysis Batch: 23268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-1	PH01@2'	Total/NA	Solid	8015M/D	23310
885-22164-2	PH01@10'	Total/NA	Solid	8015M/D	23310
885-22164-6	PH03@1'	Total/NA	Solid	8015M/D	23310
885-22164-7	PH03@3'	Total/NA	Solid	8015M/D	23310
MB 885-23310/1-A	Method Blank	Total/NA	Solid	8015M/D	23310
LCS 885-23310/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	23310

Prep Batch: 23310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-1	PH01@2'	Total/NA	Solid	SHAKE	
885-22164-2	PH01@10'	Total/NA	Solid	SHAKE	
885-22164-3	SS01@0'	Total/NA	Solid	SHAKE	
885-22164-4	PH02@1'	Total/NA	Solid	SHAKE	
885-22164-5	PH02@10'	Total/NA	Solid	SHAKE	
885-22164-6	PH03@1'	Total/NA	Solid	SHAKE	
885-22164-7	PH03@3'	Total/NA	Solid	SHAKE	
885-22164-8	PH04@2'	Total/NA	Solid	SHAKE	
885-22164-9	PH04@6'	Total/NA	Solid	SHAKE	
885-22164-10	PH04@12'	Total/NA	Solid	SHAKE	
885-22164-11	PH05@2'	Total/NA	Solid	SHAKE	
885-22164-12	PH05@6'	Total/NA	Solid	SHAKE	
885-22164-13	PH06@2'	Total/NA	Solid	SHAKE	
885-22164-14	PH06@6'	Total/NA	Solid	SHAKE	
MB 885-23310/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-23310/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

GC Semi VOA

Analysis Batch: 23445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-3	SS01@0'	Total/NA	Solid	8015M/D	23310
885-22164-4	PH02@1'	Total/NA	Solid	8015M/D	23310
885-22164-7	PH03@3'	Total/NA	Solid	8015M/D	23310
885-22164-9	PH04@6'	Total/NA	Solid	8015M/D	23310
885-22164-10	PH04@12'	Total/NA	Solid	8015M/D	23310
885-22164-11	PH05@2'	Total/NA	Solid	8015M/D	23310
885-22164-12	PH05@6'	Total/NA	Solid	8015M/D	23310
885-22164-13	PH06@2'	Total/NA	Solid	8015M/D	23310
885-22164-14	PH06@6'	Total/NA	Solid	8015M/D	23310

Analysis Batch: 23520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-8	PH04@2'	Total/NA	Solid	8015M/D	23310

Analysis Batch: 23600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-8	PH04@2'	Total/NA	Solid	8015M/D	23310

Analysis Batch: 23660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-5	PH02@10'	Total/NA	Solid	8015M/D	23310

HPLC/IC

Prep Batch: 23258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-1	PH01@2'	Total/NA	Solid	300_Prep	
885-22164-2	PH01@10'	Total/NA	Solid	300_Prep	
885-22164-3	SS01@0'	Total/NA	Solid	300_Prep	
885-22164-4	PH02@1'	Total/NA	Solid	300_Prep	
885-22164-5	PH02@10'	Total/NA	Solid	300_Prep	
885-22164-6	PH03@1'	Total/NA	Solid	300_Prep	
MB 885-23258/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-23258/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 23259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-7	PH03@3'	Total/NA	Solid	300_Prep	
885-22164-8	PH04@2'	Total/NA	Solid	300_Prep	
885-22164-9	PH04@6'	Total/NA	Solid	300_Prep	
885-22164-10	PH04@12'	Total/NA	Solid	300_Prep	
885-22164-11	PH05@2'	Total/NA	Solid	300_Prep	
885-22164-12	PH05@6'	Total/NA	Solid	300_Prep	
885-22164-13	PH06@2'	Total/NA	Solid	300_Prep	
885-22164-14	PH06@6'	Total/NA	Solid	300_Prep	
MB 885-23259/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-23259/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LLCS 885-23259/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-22164-7 MS	PH03@3'	Total/NA	Solid	300_Prep	
885-22164-7 MSD	PH03@3'	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

HPLC/IC

Analysis Batch: 23272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22164-1	PH01@2'	Total/NA	Solid	300.0	23258
885-22164-2	PH01@10'	Total/NA	Solid	300.0	23258
885-22164-3	SS01@0'	Total/NA	Solid	300.0	23258
885-22164-4	PH02@1'	Total/NA	Solid	300.0	23258
885-22164-5	PH02@10'	Total/NA	Solid	300.0	23258
885-22164-6	PH03@1'	Total/NA	Solid	300.0	23258
885-22164-7	PH03@3'	Total/NA	Solid	300.0	23259
885-22164-8	PH04@2'	Total/NA	Solid	300.0	23259
885-22164-9	PH04@6'	Total/NA	Solid	300.0	23259
885-22164-10	PH04@12'	Total/NA	Solid	300.0	23259
885-22164-11	PH05@2'	Total/NA	Solid	300.0	23259
885-22164-12	PH05@6'	Total/NA	Solid	300.0	23259
885-22164-13	PH06@2'	Total/NA	Solid	300.0	23259
885-22164-14	PH06@6'	Total/NA	Solid	300.0	23259
MB 885-23258/1-A	Method Blank	Total/NA	Solid	300.0	23258
MB 885-23259/1-A	Method Blank	Total/NA	Solid	300.0	23259
LCS 885-23258/2-A	Lab Control Sample	Total/NA	Solid	300.0	23258
LCS 885-23259/3-A	Lab Control Sample	Total/NA	Solid	300.0	23259
LLCS 885-23259/2-A	Lab Control Sample	Total/NA	Solid	300.0	23259
885-22164-7 MS	PH03@3'	Total/NA	Solid	300.0	23259
885-22164-7 MSD	PH03@3'	Total/NA	Solid	300.0	23259

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH01@2'

Lab Sample ID: 885-22164-1
Matrix: Solid
Date Collected: 03/26/25 09:10
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23417	AT	EET ALB	03/31/25 18:16
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23416	AT	EET ALB	03/31/25 18:16
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/29/25 01:38
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 16:48

Client Sample ID: PH01@10'

Lab Sample ID: 885-22164-2
Matrix: Solid
Date Collected: 03/26/25 09:15
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23417	AT	EET ALB	03/31/25 19:21
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23416	AT	EET ALB	03/31/25 19:21
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/29/25 01:49
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 17:02

Client Sample ID: SS01@0'

Lab Sample ID: 885-22164-3
Matrix: Solid
Date Collected: 03/26/25 09:25
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		100	23541	AT	EET ALB	04/01/25 19:46
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		100	23542	AT	EET ALB	04/01/25 19:46
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		10	23445	EM	EET ALB	04/01/25 10:37
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 17:16

Client Sample ID: PH02@1'

Lab Sample ID: 885-22164-4
Matrix: Solid
Date Collected: 03/26/25 09:30
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23541	AT	EET ALB	04/01/25 19:03

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH02@1'

Lab Sample ID: 885-22164-4
Matrix: Solid
Date Collected: 03/26/25 09:30
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23542	AT	EET ALB	04/01/25 19:03
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23445	EM	EET ALB	04/01/25 09:16
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 17:29

Client Sample ID: PH02@10'

Lab Sample ID: 885-22164-5
Matrix: Solid
Date Collected: 03/26/25 09:45
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23417	AT	EET ALB	03/31/25 21:09
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23416	AT	EET ALB	03/31/25 21:09
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23660	MI	EET ALB	04/04/25 15:02
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 17:43

Client Sample ID: PH03@1'

Lab Sample ID: 885-22164-6
Matrix: Solid
Date Collected: 03/26/25 10:00
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23417	AT	EET ALB	03/31/25 21:30
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23416	AT	EET ALB	03/31/25 21:30
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/29/25 02:47
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 17:56

Client Sample ID: PH03@3'

Lab Sample ID: 885-22164-7
Matrix: Solid
Date Collected: 03/26/25 10:10
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23417	AT	EET ALB	03/31/25 21:52
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23416	AT	EET ALB	03/31/25 21:52

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH03@3'

Lab Sample ID: 885-22164-7
Matrix: Solid
Date Collected: 03/26/25 10:10
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/29/25 02:59
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23445	EM	EET ALB	04/01/25 09:27
Total/NA	Prep	300_Prep			23259	DL	EET ALB	03/28/25 09:04
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/29/25 00:19

Client Sample ID: PH04@2'

Lab Sample ID: 885-22164-8
Matrix: Solid
Date Collected: 03/26/25 10:15
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		5	23417	AT	EET ALB	03/31/25 22:14
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		5	23416	AT	EET ALB	03/31/25 22:14
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		10	23520	MI	EET ALB	04/02/25 13:32
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		10	23600	MI	EET ALB	04/03/25 14:42
Total/NA	Prep	300_Prep			23259	DL	EET ALB	03/28/25 09:04
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/29/25 01:00

Client Sample ID: PH04@6'

Lab Sample ID: 885-22164-9
Matrix: Solid
Date Collected: 03/26/25 10:20
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		20	23417	AT	EET ALB	03/31/25 22:35
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		20	23416	AT	EET ALB	03/31/25 22:35
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		10	23445	EM	EET ALB	04/01/25 15:18
Total/NA	Prep	300_Prep			23259	DL	EET ALB	03/28/25 09:04
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/29/25 01:14

Client Sample ID: PH04@12'

Lab Sample ID: 885-22164-10
Matrix: Solid
Date Collected: 03/26/25 10:30
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		20	23417	AT	EET ALB	03/31/25 22:57

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH04@12'

Lab Sample ID: 885-22164-10
Matrix: Solid
Date Collected: 03/26/25 10:30
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		20	23416	AT	EET ALB	03/31/25 22:57
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		200	23542	AT	EET ALB	04/01/25 19:25
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		10	23445	EM	EET ALB	04/01/25 15:30
Total/NA	Prep	300_Prep			23259	DL	EET ALB	03/28/25 09:04
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/29/25 01:27

Client Sample ID: PH05@2'

Lab Sample ID: 885-22164-11
Matrix: Solid
Date Collected: 03/26/25 10:35
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23417	AT	EET ALB	03/31/25 23:40
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23416	AT	EET ALB	03/31/25 23:40
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23445	EM	EET ALB	04/01/25 09:39
Total/NA	Prep	300_Prep			23259	DL	EET ALB	03/28/25 09:04
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/29/25 01:41

Client Sample ID: PH05@6'

Lab Sample ID: 885-22164-12
Matrix: Solid
Date Collected: 03/26/25 10:40
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23417	AT	EET ALB	04/01/25 00:02
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23416	AT	EET ALB	04/01/25 00:02
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23445	EM	EET ALB	04/01/25 09:50
Total/NA	Prep	300_Prep			23259	DL	EET ALB	03/28/25 09:04
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/29/25 01:54

Client Sample ID: PH06@2'

Lab Sample ID: 885-22164-13
Matrix: Solid
Date Collected: 03/26/25 10:45
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23417	AT	EET ALB	04/01/25 00:23

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Client Sample ID: PH06@2'

Lab Sample ID: 885-22164-13

Date Collected: 03/26/25 10:45
Matrix: Solid
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23416	AT	EET ALB	04/01/25 00:23
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23445	EM	EET ALB	04/01/25 10:02
Total/NA	Prep	300_Prep			23259	DL	EET ALB	03/28/25 09:04
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/29/25 02:08

Client Sample ID: PH06@6'

Lab Sample ID: 885-22164-14

Date Collected: 03/26/25 10:50
Matrix: Solid
Date Received: 03/27/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8015M/D		1	23417	AT	EET ALB	04/01/25 00:45
Total/NA	Prep	5030C			23275	AT	EET ALB	03/28/25 10:38
Total/NA	Analysis	8021B		1	23416	AT	EET ALB	04/01/25 00:45
Total/NA	Prep	SHAKE			23310	EM	EET ALB	03/28/25 15:26
Total/NA	Analysis	8015M/D		1	23445	EM	EET ALB	04/01/25 10:14
Total/NA	Prep	300_Prep			23259	DL	EET ALB	03/28/25 09:04
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/29/25 02:22

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: LC Kelly 5

Job ID: 885-22164-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26

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

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Hilcorp Energy Company

Mailing Address:

Phone #:

email or Fax#: MKillough@hilcorp.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☒ EDD (Type) PDF, Excel

Turn-Around Time:
5-Day
☒ Standard ☐ Rush

Project Name:
LC Kelly 5

Project #: Stuart Hyde
Shyde@Ensolum.com

Project Manager: Wes Weichert
WWeichert@ensolum.com

Sampler: Wes Weichert

On Ice: ☒ Yes ☐ No

# of Coolers: 1 (ungrouped)

Cooler Temp(including CF): 1.4+0.2=1.6 (°C)

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

885-22164 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	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3-26	9:10	Soil	PH01@2'	4oz soil	NA		X	X					X			
	9:15		PH01@10'													
	9:25		SS01@0'													
	9:30		PH02@1'													
	9:45		PH02@10'													
	10:00		PH03@1'													
	10:10		PH03@3'													
	10:15		PH04@2'													
	10:20		PH04@6'													
	10:30		PH04@12'													
	10:35		PH05@2'													
↓	10:40	↓	PH05@6'	↓	↓		↓	↓					↓			

Date	Time	Relinquished by	Received by	Via	Date	Time
3-26-25	13:25	Wm Wimt	Chantal Walker		3/26/25	1325
3/26/25	1719	Chantal Walker			3/27/25	7:10

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.

Chain-of-Custody Record

Client: Hilcorp Energy Company

Mailing Address:

Phone #:

email or Fax#: mkillough@hilcorp.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☒ EDD (Type) Excel

Turn-Around Time:
5- Day
☒ Standard ☐ Rush

Project Name:
LC Kelly 5

Project #: Stuart Hyde
shyde@ensolum.com

Project Manager: Wes Weichert
WWeichert@ensolum.com

Sampler: Wes Weichert

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

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

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)
3-26	10:45	Soil	PH06 @ 2'	4oz Soil	NA		X	X					X			
3-26	10:50	Soil	PH06 @ 6'	↓	↓		X	X					X			

WW
3-26

Date	Time	Relinquished by	Received by	Via	Date	Time
3-26-25	13:25	Wm Wmt				
3/26/25	1719	Chant Walker		courier	3/27/25	7:10

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

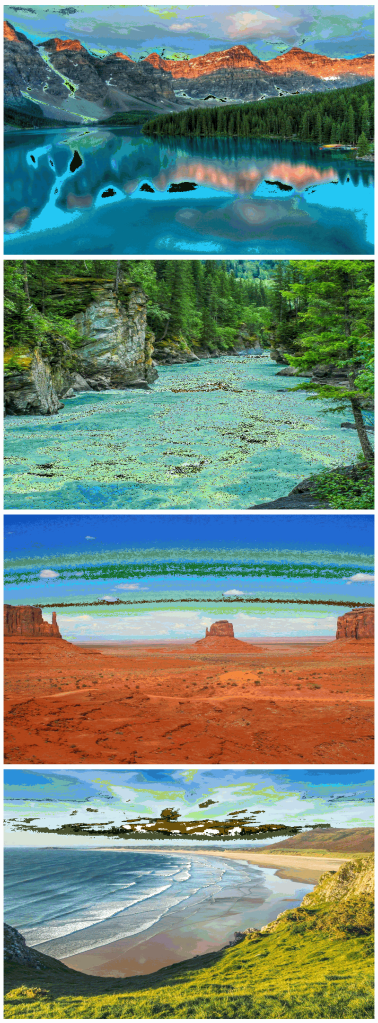
Client: Hilcorp Energy Job Number: 885-22164-1

Login Number: 22164 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

Report to:

Mitch Killough



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:	LC Kelly 5
Work Order:	E505157
Job Number:	17051-0002
Received:	5/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/22/25

Date Reported: 5/22/25

Mitch Killough
PO Box 61529
Houston, TX 77208

Project Name: LC Kelly 5
Workorder: E505157
Date Received: 5/14/2025 11:05:00AM

Mitch Killough,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/14/2025 11:05:00AM, under the Project Name: LC Kelly 5.

The analytical test results summarized in this report with the Project Name: LC Kelly 5 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
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ljarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Hilcorp Energy Co	Project Name:	LC Kelly 5	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	05/22/25 14:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 @ 15'	E505157-01A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH01 @ 20'	E505157-02A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH01 @ 25'	E505157-03A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH01 @ 30'	E505157-04A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH01 @ 35'	E505157-05A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH02 @ 15'	E505157-06A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH02 @ 20'	E505157-07A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH02 @ 25'	E505157-08A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH02 @ 30'	E505157-09A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH02 @ 35'	E505157-10A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH03 @ 20'	E505157-11A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH03 @ 25'	E505157-12A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH04 @ 20'	E505157-13A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH04 @ 25'	E505157-14A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH04 @ 30'	E505157-15A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH04 @ 35'	E505157-16A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH03 @ 35'	E505157-17A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH02 @ 55'	E505157-18A	Soil	05/13/25	05/14/25	Glass Jar, 4 oz.
BH05 @ 15'	E505157-19A	Soil	05/14/25	05/14/25	Glass Jar, 4 oz.
BH05 @ 35'	E505157-20A	Soil	05/14/25	05/14/25	Glass Jar, 4 oz.

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH01 @ 15'

E505157-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	**0.109**	0.0500	2	05/14/25	05/17/25	
Ethylbenzene	**8.71**	0.0500	2	05/14/25	05/17/25	
Toluene	**0.939**	0.0500	2	05/14/25	05/17/25	
o-Xylene	**7.65**	0.0500	2	05/14/25	05/17/25	
p,m-Xylene	**60.4**	0.100	2	05/14/25	05/17/25	
Total Xylenes	**68.0**	0.0500	2	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	**665**	40.0	2	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*142 %*	*70-130*	*05/14/25*	*05/17/25*	*S3*
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	**5070**	25.0	1	05/15/25	05/15/25	T9
Oil Range Organics (C28-C36)	**975**	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*274 %*	*61-141*	*05/15/25*	*05/15/25*	*S5*
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	40.0	2	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH01 @ 20'

E505157-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	**0.309**	0.0250	1	05/14/25	05/17/25	
Ethylbenzene	**2.98**	0.0250	1	05/14/25	05/17/25	
Toluene	**0.681**	0.0250	1	05/14/25	05/17/25	
o-Xylene	**2.17**	0.0250	1	05/14/25	05/17/25	
p,m-Xylene	**19.6**	0.0500	1	05/14/25	05/17/25	
Total Xylenes	**21.8**	0.0250	1	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*91.9 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	**451**	20.0	1	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*144 %*	*70-130*	*05/14/25*	*05/17/25*	*S3*
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	**1160**	25.0	1	05/15/25	05/15/25	T9
Oil Range Organics (C28-C36)	**329**	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*158 %*	*61-141*	*05/15/25*	*05/15/25*	*S5*
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	20.0	1	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH01 @ 25'

E505157-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	**0.115**	0.0250	1	05/14/25	05/19/25	
Ethylbenzene	**1.21**	0.0250	1	05/14/25	05/19/25	
Toluene	**0.206**	0.0250	1	05/14/25	05/19/25	
o-Xylene	**1.86**	0.0250	1	05/14/25	05/19/25	
p,m-Xylene	**10.1**	0.0500	1	05/14/25	05/19/25	
Total Xylenes	**12.0**	0.0250	1	05/14/25	05/19/25	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*05/14/25*	*05/19/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	**170**	20.0	1	05/14/25	05/19/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*127 %*	*70-130*	*05/14/25*	*05/19/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	**998**	25.0	1	05/15/25	05/15/25	T9
Oil Range Organics (C28-C36)	**265**	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*136 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	**32.3**	20.0	1	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH01 @ 30'

E505157-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*85.4 %*	*70-130*	*05/14/25*	*05/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*05/14/25*	*05/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*110 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	**21.3**	20.0	1	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH01 @ 35'

E505157-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/20/25	
Toluene	ND	0.0250	1	05/14/25	05/20/25	
o-Xylene	ND	0.0250	1	05/14/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		*88.8 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*108 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	100	5	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH02 @ 15'

E505157-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/20/25	
Toluene	ND	0.0250	1	05/14/25	05/20/25	
o-Xylene	ND	0.0250	1	05/14/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		*90.9 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	**27.7**	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*109 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	200	10	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH02 @ 20'

E505157-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/17/25	
Ethylbenzene	**0.275**	0.0250	1	05/14/25	05/17/25	
Toluene	**0.109**	0.0250	1	05/14/25	05/17/25	
o-Xylene	**0.192**	0.0250	1	05/14/25	05/17/25	
p,m-Xylene	**1.33**	0.0500	1	05/14/25	05/17/25	
Total Xylenes	**1.52**	0.0250	1	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*87.6 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	**80.7**	20.0	1	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*111 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	**112**	25.0	1	05/15/25	05/15/25	T9
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*117 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	20.0	1	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH02 @ 25'

E505157-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/20/25	
Ethylbenzene	**0.0513**	0.0250	1	05/14/25	05/20/25	
Toluene	ND	0.0250	1	05/14/25	05/20/25	
o-Xylene	**0.0538**	0.0250	1	05/14/25	05/20/25	
p,m-Xylene	**0.245**	0.0500	1	05/14/25	05/20/25	
Total Xylenes	**0.298**	0.0250	1	05/14/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		*89.2 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.0 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	**34.0**	25.0	1	05/15/25	05/15/25	T9
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*111 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	40.0	2	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH02 @ 30'

E505157-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/20/25	
Toluene	ND	0.0250	1	05/14/25	05/20/25	
o-Xylene	ND	0.0250	1	05/14/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		*89.5 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*107 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	40.0	2	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH02 @ 35'

E505157-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/17/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/17/25	
Toluene	ND	0.0250	1	05/14/25	05/17/25	
o-Xylene	ND	0.0250	1	05/14/25	05/17/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/17/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*87.2 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*104 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	100	5	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH03 @ 20'

E505157-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/17/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/17/25	
Toluene	ND	0.0250	1	05/14/25	05/17/25	
o-Xylene	ND	0.0250	1	05/14/25	05/17/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/17/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*86.1 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.5 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*108 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	**29.0**	20.0	1	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH03 @ 25'

E505157-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/17/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/17/25	
Toluene	ND	0.0250	1	05/14/25	05/17/25	
o-Xylene	ND	0.0250	1	05/14/25	05/17/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/17/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*87.5 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.3 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*110 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	**31.1**	20.0	1	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH04 @ 20'

E505157-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/17/25	
Ethylbenzene	**0.389**	0.0250	1	05/14/25	05/17/25	
Toluene	**0.154**	0.0250	1	05/14/25	05/17/25	
o-Xylene	**0.302**	0.0250	1	05/14/25	05/17/25	
p,m-Xylene	**1.80**	0.0500	1	05/14/25	05/17/25	
Total Xylenes	**2.10**	0.0250	1	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*87.0 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	**104**	20.0	1	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*120 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	**160**	25.0	1	05/15/25	05/15/25	T9
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*108 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	100	5	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH04 @ 25'

E505157-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/17/25	
Ethylbenzene	**0.144**	0.0250	1	05/14/25	05/17/25	
Toluene	**0.0502**	0.0250	1	05/14/25	05/17/25	
o-Xylene	**0.163**	0.0250	1	05/14/25	05/17/25	
p,m-Xylene	**0.786**	0.0500	1	05/14/25	05/17/25	
Total Xylenes	**0.949**	0.0250	1	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*88.8 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	**29.9**	20.0	1	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*104 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	**183**	25.0	1	05/15/25	05/15/25	T9
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*111 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	40.0	2	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH04 @ 30'

E505157-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/17/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/17/25	
Toluene	**0.0361**	0.0250	1	05/14/25	05/17/25	
o-Xylene	ND	0.0250	1	05/14/25	05/17/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/17/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*89.4 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.2 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		*101 %*	*61-141*	*05/15/25*	*05/15/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	40.0	2	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH05 @ 15'

E505157-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/17/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/17/25	
Toluene	ND	0.0250	1	05/14/25	05/17/25	
o-Xylene	ND	0.0250	1	05/14/25	05/17/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/17/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/17/25	
Surrogate: 4-Bromochlorobenzene-PID		*89.9 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*05/14/25*	*05/17/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
Surrogate: n-Nonane		*104 %*	*61-141*	*05/15/25*	*05/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	200	10	05/16/25	05/16/25	

Sample Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

BH05 @ 35'

E505157-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Benzene	ND	0.0250	1	05/14/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/20/25	
Toluene	ND	0.0250	1	05/14/25	05/20/25	
o-Xylene	ND	0.0250	1	05/14/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/20/25	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2520079
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/20/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.7 %*	*70-130*	*05/14/25*	*05/20/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/16/25	
Surrogate: n-Nonane		*104 %*	*61-141*	*05/15/25*	*05/16/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2520126
Chloride	ND	100	5	05/16/25	05/16/25	

QC Summary Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

Volatile Organics by EPA 8021B

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 (2520079-BLK1)									Prepared: 05/14/25 Analyzed: 05/16/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.86*		*8.00*		*85.7*	*70-130*			
LCS (2520079-BS1)									Prepared: 05/14/25 Analyzed: 05/16/25
Benzene	5.11	0.0250	5.00		102	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	4.97	0.0250	5.00		99.4	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.78*		*8.00*		*84.7*	*70-130*			
Matrix Spike (2520079-MS1)				**Source: E505157-04**					Prepared: 05/14/25 Analyzed: 05/17/25
Benzene	5.45	0.0250	5.00	ND	109	70-130			
Ethylbenzene	5.35	0.0250	5.00	ND	107	70-130			
Toluene	5.43	0.0250	5.00	ND	109	70-130			
o-Xylene	5.28	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130			
Total Xylenes	16.1	0.0250	15.0	ND	107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.85*		*8.00*		*85.6*	*70-130*			
Matrix Spike Dup (2520079-MSD1)				**Source: E505157-04**					Prepared: 05/14/25 Analyzed: 05/17/25
Benzene	5.35	0.0250	5.00	ND	107	70-130	1.92	27	
Ethylbenzene	5.25	0.0250	5.00	ND	105	70-130	1.86	26	
Toluene	5.32	0.0250	5.00	ND	106	70-130	2.06	20	
o-Xylene	5.17	0.0250	5.00	ND	103	70-130	2.18	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	1.74	23	
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130	1.88	26	
Surrogate: 4-Bromochlorobenzene-PID	*6.87*		*8.00*		*85.8*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

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 (2520079-BLK1)									Prepared: 05/14/25 Analyzed: 05/16/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.69*		*8.00*		*96.2*	*70-130*			
LCS (2520079-BS2)									Prepared: 05/14/25 Analyzed: 05/16/25
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.82*		*8.00*		*97.7*	*70-130*			
Matrix Spike (2520079-MS2)				**Source: E505157-04**					Prepared: 05/14/25 Analyzed: 05/17/25
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.78*		*8.00*		*97.2*	*70-130*			
Matrix Spike Dup (2520079-MSD2)				**Source: E505157-04**					Prepared: 05/14/25 Analyzed: 05/17/25
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130	4.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.68*		*8.00*		*96.0*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2520087-BLK1)									Prepared: 05/15/25 Analyzed: 05/15/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.2*		*50.0*		*98.4*	*61-141*			
LCS (2520087-BS1)									Prepared: 05/15/25 Analyzed: 05/15/25
Diesel Range Organics (C10-C28)	272	25.0	250		109	66-144			
Surrogate: n-Nonane	*50.4*		*50.0*		*101*	*61-141*			
Matrix Spike (2520087-MS1)				**Source: E505157-03**					Prepared: 05/15/25 Analyzed: 05/15/25
Diesel Range Organics (C10-C28)	916	25.0	250	998	NR	56-156			M4
Surrogate: n-Nonane	*61.5*		*50.0*		*123*	*61-141*			
Matrix Spike Dup (2520087-MSD1)				**Source: E505157-03**					Prepared: 05/15/25 Analyzed: 05/15/25
Diesel Range Organics (C10-C28)	1050	25.0	250	998	21.0	56-156	13.7	20	M4
Surrogate: n-Nonane	*64.3*		*50.0*		*129*	*61-141*			

QC Summary Data

Hilcorp Energy Co	Project Name:	LC Kelly 5	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	5/22/2025 2:30:37PM

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 (2520126-BLK1)									Prepared: 05/16/25 Analyzed: 05/16/25
Chloride	ND	20.0							
LCS (2520126-BS1)									Prepared: 05/16/25 Analyzed: 05/16/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2520126-MS1)				**Source: E505157-02**					Prepared: 05/16/25 Analyzed: 05/16/25
Chloride	263	20.0	250	ND	105	80-120			
Matrix Spike Dup (2520126-MSD1)				**Source: E505157-02**					Prepared: 05/16/25 Analyzed: 05/16/25
Chloride	262	20.0	250	ND	105	80-120	0.328	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:	LC Kelly 5	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Mitch Killough	05/22/25 14:30

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
S3	Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.
S5	Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
T9	DRO includes undifferentiated early eluting analytes characteristic of GRO.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

envirotech
Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Hilcorp	Company: same as	Lab WO# E505157	Job Number 17051-0002	1D 2D 3D Std: Std	NM CO UT TX: NM
Project Name: LC Kelly 5	Address: client			
Project Manager: Mitch Killough	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email:			
Phone:	Miscellaneous:			
Email: mkillough@hilcorp.com				

Analysis and Method

EPA Program

SDWA | CWA | RCRA

Compliance Y or N

PWSID #

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	Sample Temp	Remarks
0841	5/13/25	soil	one 4 oz	BH01@15'		1	X	X	X		X					12.4	
0848				BH01@20'		2										7.9	
0856				BH01@25'		3										8.0	
0905				BH01@30'		4										10.3	
0915				BH01@35'		5										12.8	
1055				BH02@15'		6										7.9	
1101				BH02@20'		7										8.8	
1109				BH02@25'		8										9.1	
1120				BH02@30'		9										8.6	
1145				BH02@35'		10										7.8	

Additional Instructions: cc: mkillough@hilcorp.com ; shyde@ensolum.com ; wweichert@ensolum.com ; afroelich@ensolum.com

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

Sampled by: Osgood Froelich

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	5/14/25	1104	[signature]	5.14.25	1105
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

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

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

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

envirotech
Analytical Laboratory

Chain of Custody

Client Information		Invoice Information		Lab Use Only		TAT				State				
Client:	Hilcorp	Company:	Same as	Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX	
Project Name:	LC Kelly 5	Address:	client	E505157	17051-0002				X	X				
Project Manager:	Mitch Killough	City, State, Zip:												
Address:		Phone:												
City, State, Zip:		Email:												
Phone:		Miscellaneous:												
Email:	mkillough@hilcorp.com													

Sample Information								Analysis and Method											EPA Program		
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		Place on HOLD		SDWA	CWA	RCRA
																		Compliance	Y	or	N
																		PWSID #			
1411	5/13/25	soil	one 4 oz	BH03@20'		11	X	X	X		X							Sample Temp 5.3	Remarks		
1416				BH03@25'		12												6.7			
1523				BH04@20'		13												5.7			
1527				BH04@25'		14												5.6			
1535				BH04@30'		15												5.6			
1541				BH04@35'		16											X	5.8	HOLD		
1430				BH03@35'		17											X	6.1	HOLD		
1328				BH02@55'		18											X	7.3	HOLD		
0832	5/14/25			BH05@15'		19												9.8			
0857	5/14/25			BH05@35'		20												6.9			

Additional Instructions: cc: mkillough@hilcorp.com ; shyde@ensolum.com ; wweichert@ensolum.com ; ofroelich@ensolum.com

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/14/25	1104		5.14.25	1105

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only
Received on ice: (Y) / N

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

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

Envirotech Analytical Laboratory

Printed: 5/14/2025 11:22:59AM

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:	05/14/25 11:05	Work Order ID:	E505157
Phone:	-	Date Logged In:	05/14/25 11:15	Logged In By:	Caitlin Mars
Email:	mkillough@hilcorp.com	Due Date:	05/21/25 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
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	

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? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes	
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.		

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Client remarks- Hold Samples 16-18.Samples receieved on ice. Some samples above temp.

Client Instruction

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

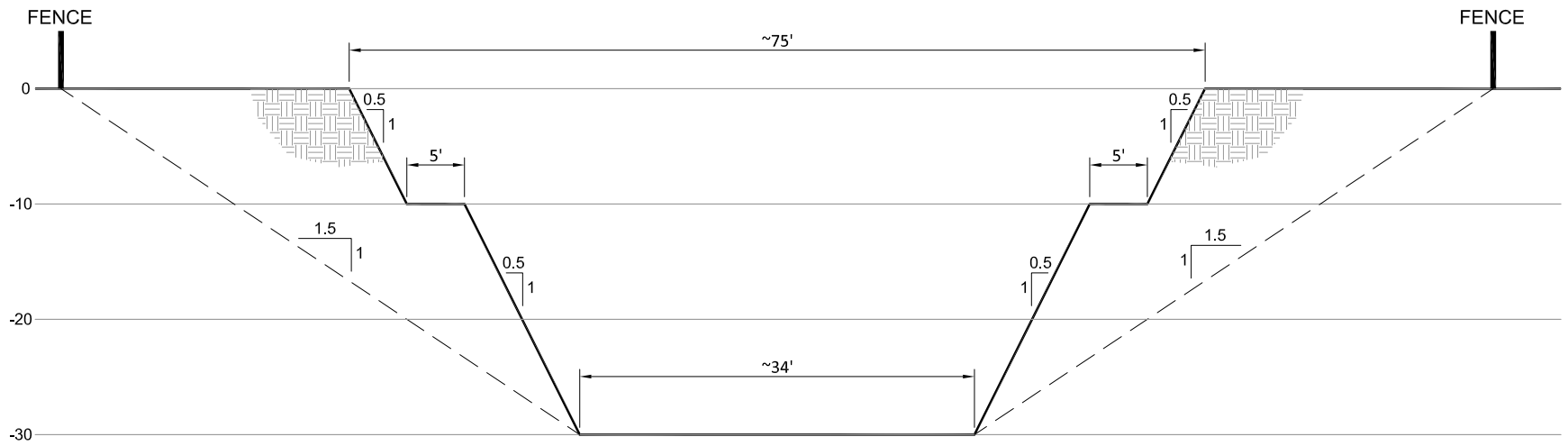
Date

envirotech Inc.

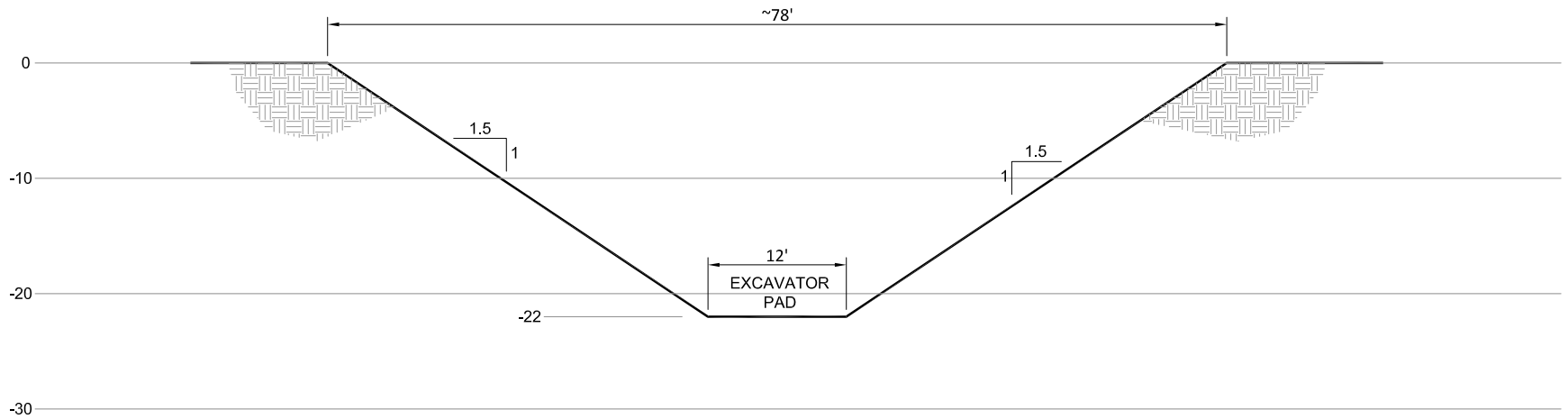
ENSOLUM

APPENDIX E

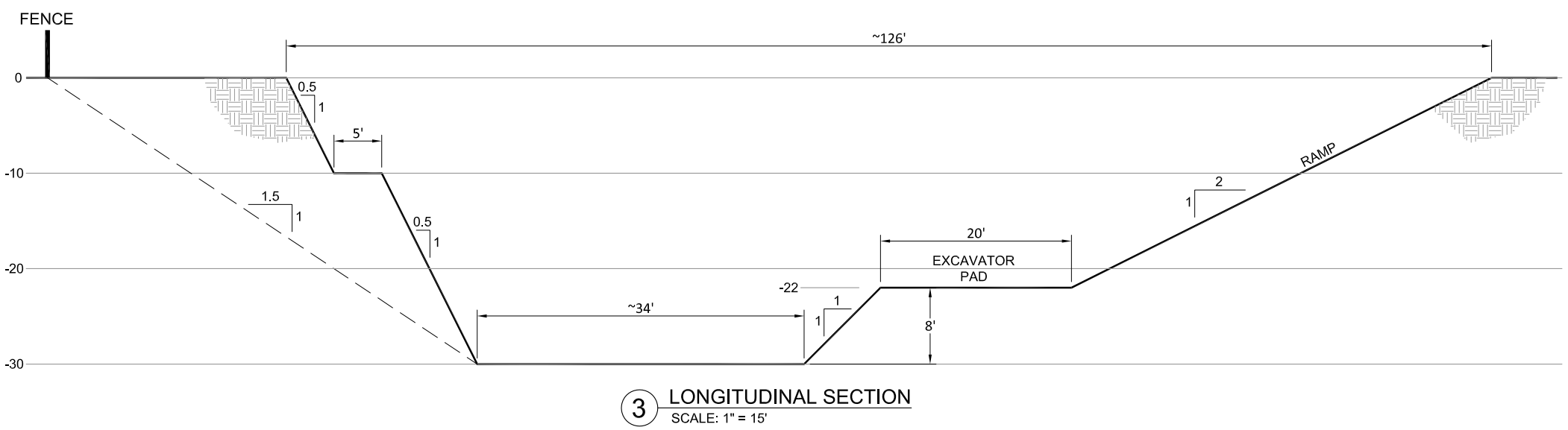
Remediation Excavation Concept



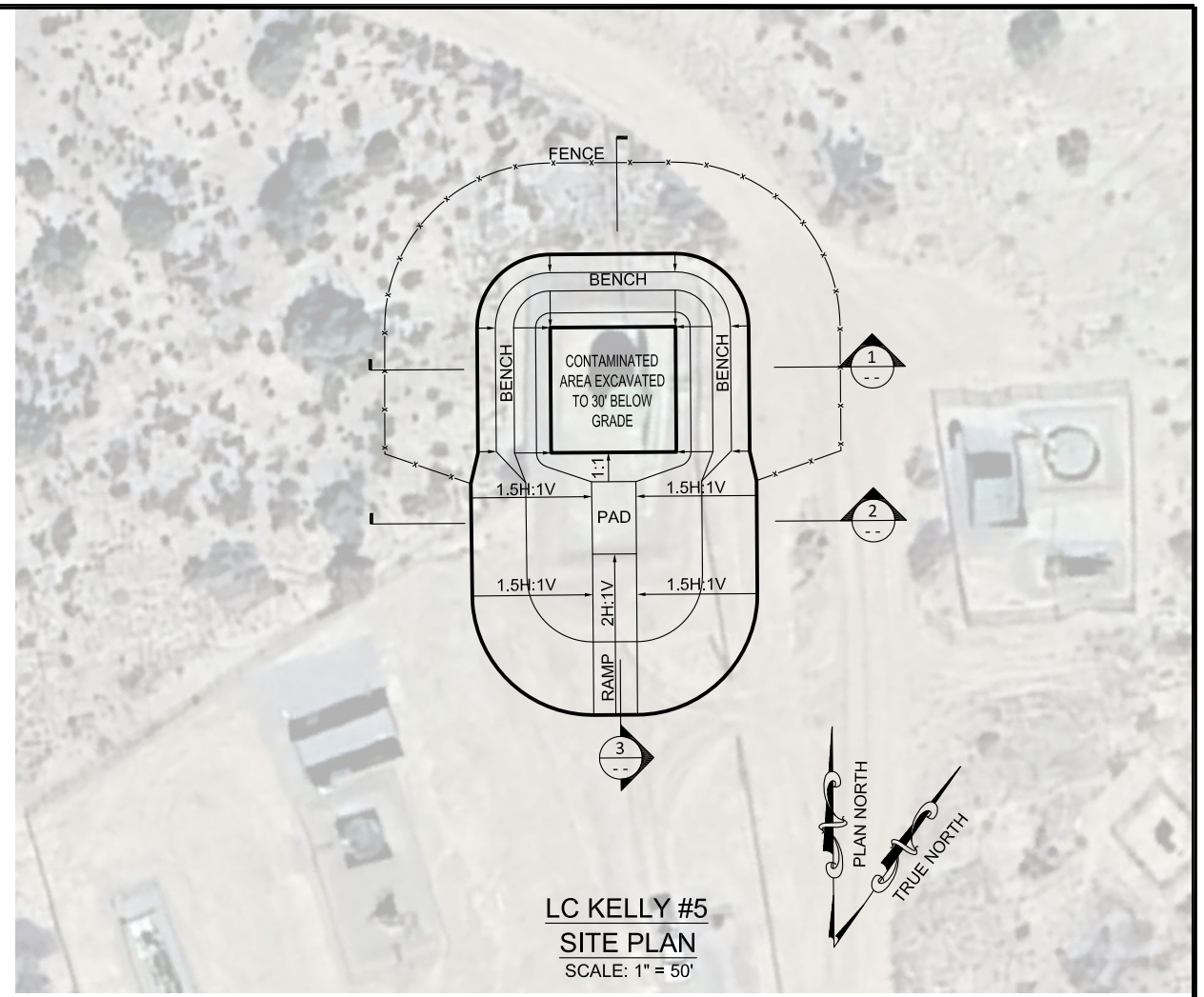
1 SECTION AT PIT
SCALE: 1" = 15'



2 SECTION AT RAMP
SCALE: 1" = 15'



3 LONGITUDINAL SECTION
SCALE: 1" = 15'



LC KELLY #5
SITE PLAN
SCALE: 1" = 50'

CONCEPT SKETCH NOTES:

1. THIS IS A CONCEPT SKETCH, NOT A DESIGN. THE CONTRACTOR IS STILL OBLIGATED TO ABIDE BY ANY AND ALL OSHA AND OTHER SAFETY REQUIREMENTS.
2. THE MAXIMUM DEPTH SHOWN IS 30 FEET AS REQUESTED. HOWEVER, GEOMAT MUST BE CONTACTED TO OBSERVE THE SITE WHEN THE EXCAVATION DEPTH REACHES 20' TO MODIFY OR CONFIRM THE RECOMMENDATIONS AS APPROPRIATE.
3. THIS SKETCH HAS BEEN PREPARED SPECIFICALLY FOR THE REMEDIATION DIG AT THE LC KELLY #5 SITE AND SHALL NOT BE CONSIDERED SUITABLE FOR USE ON OTHER LOCATIONS.
4. BASED ON THE BORING LOGS PROVIDED, THE CONFIGURATION SHOWN ASSUMES THE SOILS AT THE SITE WILL BE OSHA CLASS C SOILS.
5. A 4' HIGH FENCE MUST BE MAINTAINED AROUND THE OPEN EXCAVATION IN ALL AREAS EXCEPT AT THE ENTRANCE RAMP
6. THE FENCE SHALL BE LOCATED ALONG AN IMAGINARY LINE THAT IS LOCATED WHERE A 1.5H:1V LINE WOULD INTERCEPT THE TOE OF THE EXCAVATION.
7. SPOILS SHALL NOT BE PLACED INSIDE THE FENCE.
8. NO PERSONNEL ARE PERMITTED TO ENTER THE EXCAVATION EXCEPT THE EXCAVATOR OPERATOR, AND THE OPERATOR MUST REMAIN INSIDE THE CAB OF THE EXCAVATOR.

PRELIMINARY
FOR CLIENT COMMENTS
2025-06-26

GEOMAT INC.
915 MALTA AVENUE ◆ FARMINGTON, NM 87401 ◆ (505) 327-7928

HILCORP

REMEDIATION EXCAVATION CONCEPT
LC KELLY #5
36.838877, -108.07921

CONCEPTUAL EXCAVATION SKETCH
30 FEET IN DEPTH

SHEET: 1 OF 1

DRAWN BY: PAR	APPROVED BY: MC	SCALE: N.T.S
PROJECT NO. 252-5472		2025-06-25

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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

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 486105
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2502352296**
Incident Name	**NAPP2502352296 LC KELLY 5 @ 30-045-09869**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**
Incident Well	**[30-045-09869] L C KELLY #005**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LC Kelly 5
Date Release Discovered	01/22/2025
Surface Owner	Federal

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

Nature and Volume of Release	
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	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Production Tank | Produced Water | Released: 40 BBL | Recovered: 0 BBL | Lost: 40 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	All remaining fluids in the 400-bbl storage tank were recovered upon discovery. However, the fluids that escaped from the bottom of the tank could not be recovered.

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 486105
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*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: 07/17/2025

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 486105
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1000 (ft.) and ½ (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be 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)	32.3
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	11300
GRO+DRO (EPA SW-846 Method 8015M)	8500
BTEX (EPA SW-846 Method 8021B or 8260B)	281
Benzene (EPA SW-846 Method 8021B or 8260B)	0.3
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	03/26/2025
On what date will (or did) the final sampling or liner inspection occur	05/14/2025
On what date will (or was) the remediation complete(d)	05/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	425
What is the estimated volume (in cubic yards) that will be remediated	425
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 486105
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	ENVIROTECH [fSC00000000048]
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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/17/2025
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: 486105
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 486105
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**460205**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**05/15/2025**
What was the (estimated) number of samples that were to be gathered	**10**
What was the sampling surface area in square feet	**2000**

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: 486105
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please collect confirmation samples, representing no more than 200 ft2. All off-pad areas must meet reclamation standards in the OCD Spill Rule. The work will need to be completed in 90 days after the report has been reviewed.	8/21/2025