



March 25, 2026

New Mexico Oil Conservation Division

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

Re: Site Summary Report and Deferral Request

Middle Mesa SWD 1
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2520971156

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), has prepared this *Site Summary Report and Deferral Request* associated with a produced water release at the Middle Mesa SWD 1 saltwater disposal (SWD) well (Site). The Site is located on federal land managed by the Bureau of Land Management (BLM) in Unit L, Section 25, Township 32 North, Range 7 West, San Juan County, New Mexico (Figure 1).

SITE BACKGROUND

On July 27, 2025, Hilcorp personnel received a high pit alarm from the on-Site below grade tank (BGT). An operator responded to the alarm and found water spraying from the A1 filter pot inside an equipment building. The tie down points on the filter pot had cracked, causing the lid gasket to bulge out and release the water. Produced water sprayed on the floor and wall of the building and flowed outside of the building and onto the surround well pad. The release impacted an area on the facility of approximately 69 feet by 58 feet and saturated the ground to a depth of approximately 8 inches. In total, an estimated 89 barrels (bbls) of produced water was released, of which 60 bbls were recovered.

In accordance with Title 19, Chapter 15, Part 29 of the New Mexico Administrative Code (NMAC), Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) and the BLM on July 28, 2025. The Site has been assigned NMOCD Incident Number nAPP2520971156.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is located in Tertiary (Eocene) age San Jose Formation and is underlain by the Nacimiento Geologic Formation. In the report titled "Hydrogeology and Water Resources of San Juan Basin, New Mexico" (Stone, et. al., 1983), the San Jose Formation is composed of interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about 2,700 feet. The hydrogeologic properties of the San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

POTENTIAL SENSITIVE RECEPTORS

The nearest fresh-water well is NMOSE permitted well SJ-03649, located approximately 8,658 feet southwest of the Site. The recorded depth to water on the NMOSE database is 300 feet below ground surface (bgs). To assess Site-specific depth-to-groundwater, a depth-to-water borehole (BH01) was advanced on October 29, 2025, to a depth of 55 feet 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 November 4, 2025. Although field logging did not encounter wet or saturated soils during drilling, groundwater was encountered in the borehole at a depth of approximately 27.16 feet below the top of the well casing, which was approximately 27.00 feet bgs, indicating the depth to groundwater beneath the Site is less than 50 feet bgs. Documentation related to the depth-to-water borehole is attached as Appendix A.

No wellhead protection areas, springs, or domestic/stock wells are located within a 1-mile radius of the Site. The closest significant watercourse is an unnamed dry wash located 1,168 feet east of the Site and is defined by a bed and bank and is identified by a dashed blue line on a USGS 7.5-minute quadrangle map. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland (Figure 1). The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the BLM). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

SITE CLOSURE CRITERIA

Based on the information presented above and in accordance with the *Table 1, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria for constituents of concern (COCs) should be applied to the Site:

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

SOIL SAMPLING ACTIVITIES

To assess potential soil impacts resulting from the release, Hilcorp retained Ensolum to collect soil samples from the Site on August 13, 2025. The NMOCD was notified at least 2-business days in advance of the initial sampling event (Appendix B). Ensolum advanced seven hand auger boreholes at the Site in the locations indicated on Figure 2. Hand auger boreholes HA01 and HA02 were advanced within the release footprint to assess conditions in areas directly impacted by the release. Boreholes HA03 through HA07 were advanced in locations outside of the release footprint to assess the lateral

extent of potential impacts. All boreholes were advanced to refusal, which was met at depths ranging from 0.5 to 4 feet bgs. Soil samples were field screened for the presence of organic vapors using a calibrated photoionization detector (PID) and chloride using Hach® QuanTab® test strips, with results noted in Table 1. At least two soil samples were collected from each borehole, one at the ground surface from 0 feet to 0.5 feet bgs and one from the terminus of the borehole. One additional soil sample was collected from borehole HA01 at a depth of 2 feet bgs. Samples were collected directly into laboratory provided jars and immediately placed on ice. Samples were submitted under strict chain-of-custody procedures to Eurofins Environment Testing (Eurofins) for analysis of TPH following United States Environmental Protection Agency (EPA) Method 8015 M/D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0.

Although there were no significant field indications of petroleum hydrocarbon impacts (staining, odors, and/or elevated PID readings), analytical results indicated detections of TPH exceeding the NMOCD Table I Closure Criteria in all samples collected from borehole HA01. BTEX constituents were not detected above laboratory reporting limits in any samples collected during the initial delineation activities. Additionally, chloride was either not detected above laboratory reporting limits or was detected below the applicable Table I Closure Criteria in all analyzed samples.

Based on the initial results collected from borehole HA01, Hilcorp retained a contractor to advance one pothole (PH01) in the area of HA01 on September 24, 2025. Due to the presence of multiple below and aboveground utilities, buildings, and other operational equipment, the size of equipment was limited to a mini-excavator. The mini-excavator advanced the pothole to a depth of 3 feet bgs before encountering an unmarked utility. Because of this, the pothole was moved 2 feet southwest of the original location and was advanced to a depth of 6 feet bgs before refusal was encountered. Field screening was conducted at depths of 4, 5, and 6 feet bgs and samples were collected from all depth intervals. Additionally, one surface soil sample (SS01@0-6"), was collected from the ground surface at this location prior to the start of potholing. Again, there were no field indications of petroleum hydrocarbons during the pothole sampling activities. Samples were collected and submitted to Eurofins for analysis in the same manner described above. Analytical results indicated TPH concentrations exceeding the Table I Closure Criteria were present at a depth of 6 feet bgs. BTEX and chloride were either not detected above laboratory reporting limits or were detected below the applicable Closure Criteria in all other analyzed samples.

Because of the TPH concentrations detected above the Closure Criteria, Hilcorp returned to the Site on February 24, 2026, to attempt to achieve vertical delineation at PH01. A mini-excavator was again used to advance the pothole at the location of PH01 and was able to reach a depth of 6.5 feet bgs until refusal was met. One sample was collected at a depth of 6.5 feet bgs in the manner described above and analyzed at Green Analytical Laboratories in Durango, Colorado for TPH, BTEX, and chloride. Based on the analytical results, all COC concentrations were compliant with the NMOCD Table I Closure Criteria and vertical delineation was achieved.

Soil sample locations are shown on Figure 2. Soil sample analytical results are summarized in Table 1, with complete laboratory analytical reports attached as Appendix C. Photographs taken during field activities are attached as Appendix D.

HISTORICAL SITE RELEASE INFORMATION

Based on historical aerial images, the facility appears to have been expanded and reconfigured sometime between 1997 and 2004. The 1997 image indicates aboveground storage tanks (ASTs) were present west of the equipment building and then removed/moved to the current position east of the building. Of note, Incident Number nDGF0332528472/nDGF0332526897, dated November 4, 2003, noted a release of 15 bbls of produced water at the facility (Appendix E). The Form C-141 submitted to the NMOCD for this release indicated an area of approximately 50 feet by 100 feet at the western end

of the filter house was impacted. There is no indication remediation occurred to sample or remove impacted material.

In addition to the release identified on Form C-141 in November 2003, there were at least three separate releases identified by the NMOCD with no indications they were reported, sampled, or remediated, and likely have contributed to TPH concentrations identified at the Site. Most notably, an attachment from this submittal indicated Mr. Bruce Martin, Deputy Oil and Gas Inspector for the NMOCD, conducted several inspections of the facility between 1998 and 2003. Notes from these inspections included the following:

- “3/15/00 Routine/Periodic Pit near the truck-unloading header is running over.
- 8/1/00 Routine/Periodic Oil sump pit is running over oil & produced water on ground around filter bldg...
- 10/22/03 Routine/Periodic Several produced water tanks are leaking. There is standing produced water on the ground. The filter vessels were leaking badly, produced water was running out of the building onto the ground. Several bbls of?? Sitting directly on the ground. Small amount of oil on ground under oil slop tank load valve.
- 11/10/03 Routine/Periodic Leaking tanks have been patched, inspection ports have been cut into every produced water tank. The filter vessels have been removed. The tanks are being drained for removal and inspection.”

CONCLUSIONS AND DEFERRAL REQUEST

Based on soil sample results described above, BTEX and chloride constituents were not detected in any samples above the applicable Closure Criteria during the delineation activities. TPH concentrations were encountered in borehole HA01 and pothole PH01 at varying concentrations from non-detect up to 4,100 mg/kg. TPH was not encountered in any other sample location during the delineation activities. Based on the variability of TPH concentrations within depths at HA01/PH01, it appears impacts in this area may be due to historical activities at the Site and not resulting from the July 2025 release of produced water. Based on a desktop review of the facility, several releases of produced water and a release of lube oil have occurred at the Site since the early 2000s.

Based on the information provided above and analytical data gathered during the 2025 and 2026 delineation activities, and in accordance with 19.15.29.12.C.(2) NMAC, Hilcorp is requesting to defer the remediation of impacted soil at the Site until the time of final plugging and abandonment and reclamation of the Site. The vertical extent of TPH impacts has been vertically delineated in the area of sample locations HA01/PH01 and indicates a separation of over 20 feet between low-level TPH concentrations and the approximate depth to groundwater.

Due to the historical nature of the impacts at the Site as described above, as well as the chemical composition of the TPH present (predominantly DRO and MRO range hydrocarbons which are less mobile and less toxic), and the small area of TPH-impacted soil, it is unlikely that TPH concentrations will migrate significantly beyond their current location. Based on a review of sensitive receptors near the Site, there is likely no direct exposure pathway of these impacts to receptors. Additionally, impacted soil remaining at the Site is located in areas immediately under and around production equipment that would cause a major facility deconstruction in order to fully remediate impacted soil. Based on the information provided in this report, Hilcorp does not believe deferral will result in an imminent risk to human health, the environment, groundwater, and/or surface water.

REFERENCES

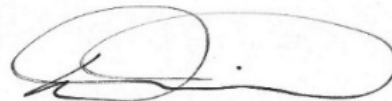
Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

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

Sincerely,
Ensolum, LLC



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



Daniel, R. Moir, PG**
**(Licensed in WY & TX)
Associate Principal, Geologist
(303) 887-2946
dmoir@ensolum.com

Attachments:

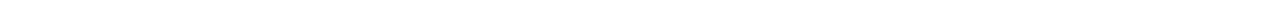
- Figure 1: Site Receptor Map
- Figure 2: Delineation Soil Samples

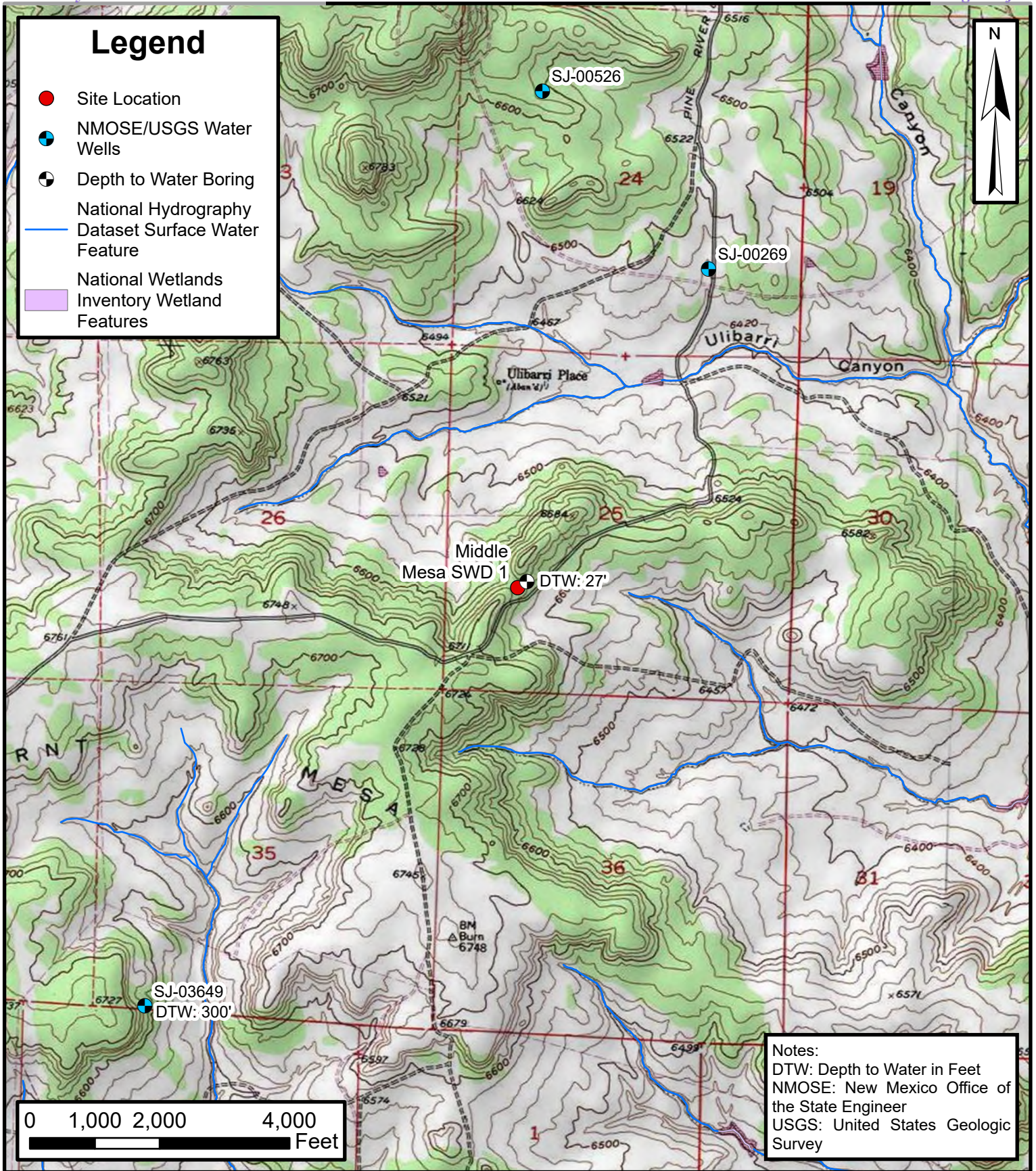
- Table 1: Soil Sample Analytical Results

- Appendix A: Depth to Water Determination
- Appendix B: Agency Correspondence
- Appendix C: Laboratory Analytical Reports
- Appendix D: Photographic Log
- Appendix E: Historical Release C-141 and Supplemental Information



FIGURES





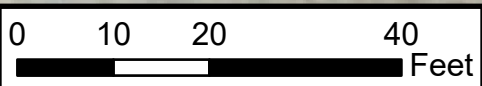
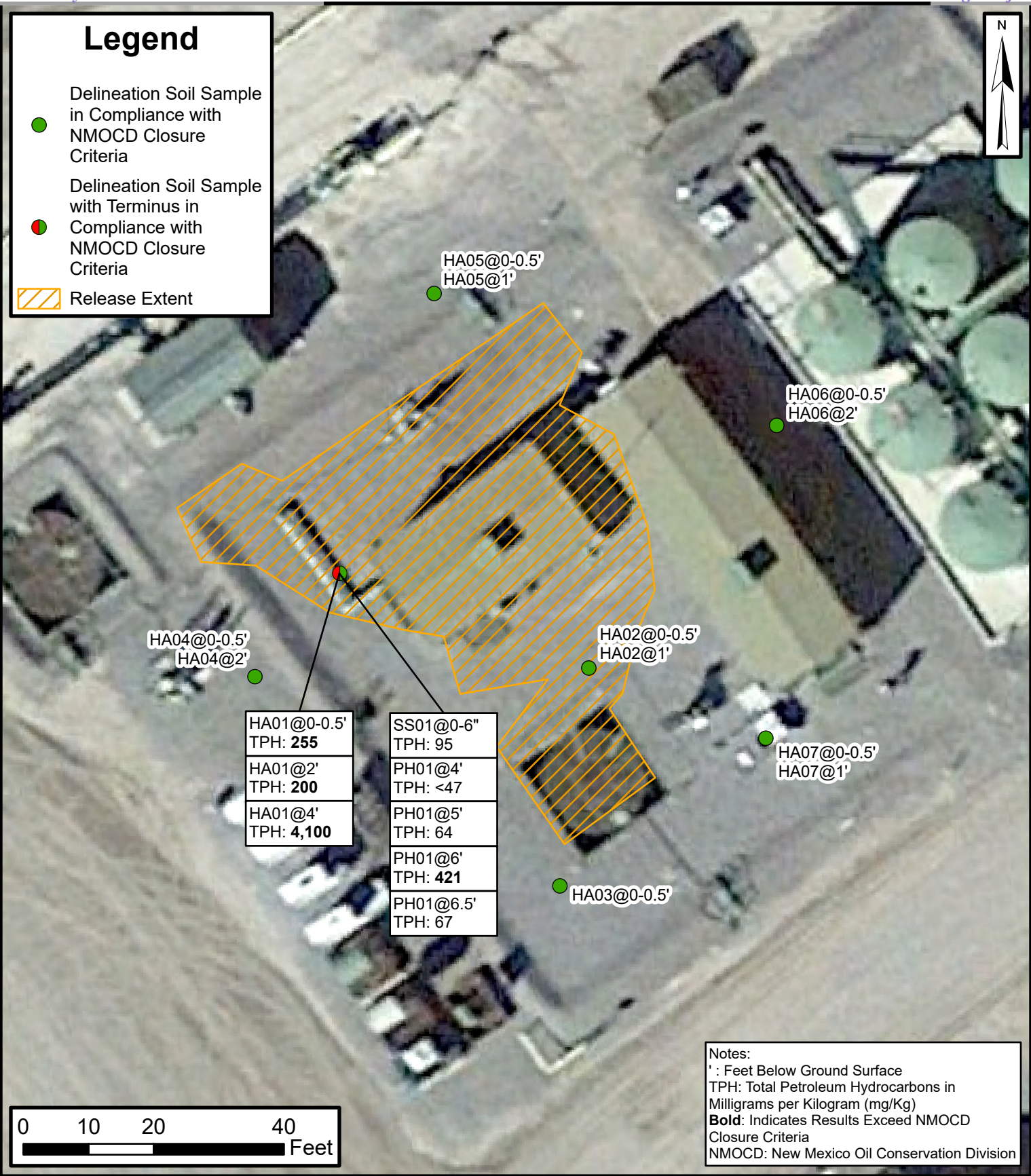
Site Receptor Map

Middle Mesa SWD 1
 Hilcorp Energy Company
 36.948460, -107.523612
 San Juan County, New Mexico

FIGURE
1

Legend

- Delineation Soil Sample in Compliance with NMOCD Closure Criteria
- Delineation Soil Sample with Terminus in Compliance with NMOCD Closure Criteria
- Release Extent



Notes:
 ' : Feet Below Ground Surface
 TPH: Total Petroleum Hydrocarbons in Milligrams per Kilogram (mg/Kg)
Bold: Indicates Results Exceed NMOCD Closure Criteria
 NMOCD: New Mexico Oil Conservation Division

Delineation Soil Samples

Middle Mesa SWD 1
 Hilcorp Energy Company
 36.948460, -107.523612
 San Juan County, New Mexico

FIGURE
2





TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Middle Mesa SWD 1
 Hilcorp Energy Company
 San Juan County, New Mexico

Sample Identification	Date	Depth (feet bgs)	Chloride Field Test (ppm)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			NE	NE	10	NE	NE	NE	50	NE	NE	NE	100	600
HA01@0-0.5'	8/13/2025	0-0.5	280	2.4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	35	220	255	210
HA01@2'	8/13/2025	2	196	5.3	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	40	160	200	240
HA01@4'	8/13/2025	4	162.4	9.1	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	1,000	3,100	4,100	160
HA02@0-0.5'	8/13/2025	0-0.5	162.4	7.9	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	14	<48	14	140
HA02@1'	8/13/2025	1	162.4	3.3	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<48	<48	110
HA03@0-0.5'	8/13/2025	0-0.5	<162	8.3	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	17	53	70	<60
HA04@0-0.5'	8/13/2025	0-0.5	<162	4.4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	<60
HA04@2'	8/13/2025	2	<162	4.9	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<50	<50	<60
HA05@0-0.5'	8/13/2025	0-0.5	<162	12.3	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	<60
HA05@1'	8/13/2025	1	<162	9.1	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	<60
HA06@0-0.5'	8/13/2025	0-0.5	<162	3.8	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<47	<47	<59
HA06@2'	8/13/2025	2	190.4	11.1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	<60
HA07@0-0.5'	8/13/2025	0-0.5	<162	1.9	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.2	<46	<46	<61
HA07@1'	8/13/2025	1	<162	10.2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	13	<50	13	<60
SS01@0-6"	9/24/2025	0-0.5	NM	2.4	<0.025	<0.049	<0.049	<0.098	<0.095	<4.9	26	69	95	110
PH01@4'	9/24/2025	4	NM	2.8	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	130
PH01@5'	9/24/2025	5	NM	2.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	14	50	64	150
PH01@6'	9/24/2025	6	NM	0.8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	91	330	421	150 F1 F2
PH01@6.5'	2/24/2026	6.5	NM	2.5	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	46	21.2	67	73.9

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
 NM: Not Measured
 ': Feet

GRO: Gasoline Range Organics
 DRO: Diesel Range Organics
 MRO: Motor Oil/Lube Oil Range Organics
 TPH: Total Petroleum Hydrocarbon
 <: 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


F1: MS and/or MSD recovery exceeds control limits

F2: MS/MSD RPD exceeds control limits




APPENDIX A

Depth to Water Determination

		Client: <i>Wilcorp</i> Project Name: <i>Middle Mesa SWD</i> Project Location: Project Manager: <i>Stuart Hyde</i>		BORING LOG NUMBER <i>BH01</i>			
Date Sampled: <i>10/29/2025</i> Drilled By: <i>Enviro-Drill</i> Driller: <i>Rodney + Damien</i> Logged By: <i>A. Schermer</i>		Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Project No.: Borehole Diameter: Casing Diameter: Well Materials: Surface Completion: Boring Method:			
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FIDPID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0						Well Graded Sand w/ Silt	
1						Coarse to v. fine, some silt	
2						Medium Dense, No. Plastic	
3						Brown, light gray light gray	
4						Dry, NO/NS	
5	<i>15-20 for 6</i>		<i>70%</i>				
6						Silt w/ Sand	
7						Silt, some sand fine to v. fine	
8						Dense, Non Plastic	
9						Brown, Dry, NO/NS	
10	<i>15-31 -39</i>		<i>50%</i>				
11						Silt w/ Sand	
12						Silt, some sand fine to v. fine	
13						Medium Dense, Non Plastic	
14						Brown, Dry NO/NS	
15	<i>18-31 -21</i>		<i>50%</i>				
16						Well Graded Sand w/ Silt	
17						Coarse to v. fine, some silt	
18						Medium dense, non plastic	
19						Brown to tan, gray	
20	<i>22-30 for 6</i>		<i>40%</i>			Dry NO/NS	
21						Silty Sand	
22						Coarse to v. fine, many silt	
23						Medium dense, non plastic	
24						Brown to tan, gray	
25	<i>18-34 -38</i>		<i>70%</i>			Dry, NO/NS	

ENSOLUM		Client:				BORING LOG NUMBER				
Date Sampled: Drilled By: Driller: Logged By:		Project Name:				Project No.:				
		Project Location:								
		Project Manager:				Ground Surface Elevation:				
DEPTH (FEET)		SAMPLE INTERVAL		BLOW COUNT	RECOVERY (%)	FID/PIID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
		25								
		26							Well graded sand w/ silt	
		27							v. coarse to v. fine	
28							Loose, non plastic			
29							Brown, gray, dry NO/US			
30		So for 6"	40%							
31							Well graded sand w/ silt			
32							v. coarse to v. fine			
33							Medium Dense, non plastic			
34							Brown, dry NO/US			
35		So for 5"	20%							
36							Well graded sand w/ silt			
37							v. coarse to v. fine			
38							Dense, non plastic			
39							Brown to Tan, light gray to white			
40		So for 5"	40%				Dry NO/US			
41							Silty Sand			
42							medium to v. fine			
43							Dense, non plastic			
44							Brown, Light Gray			
45		So for 6"	20%				Dry, NO/US			
46							Well Graded Sand w/ Silt			
47							coarse to v. fine			
48							Dense, non plastic			
49							Light Gray to White			
50		So for 6"	5%				Dry, NO/US			

		Client:				BORING LOG NUMBER	
		Project Name:					
Date Sampled:		Project Location:				Project No.:	
		Project Manager:					
Drilled By:		Ground Surface Elevation:				Borehole Diameter:	
Driller:		Top of Casing Elevation:				Casing Diameter:	
Logged By:		North Coordinate:				Well Materials:	
		West Coordinate:				Surface Completion:	
						Boring Method:	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FTD/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
50						Well Graded Gravel w/ silt and Sand	
51							
52						Dense, non plastic Gray to Light Gray Dry NO/NS	
53							
54							
55			50 f 5"	5%			
56							
57							
58							
59							
60							
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66							
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68							
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72							
73							
74							
75							

Location Middle Mesa SWD

Date 11/4/2025

Project / Client Hilcorp

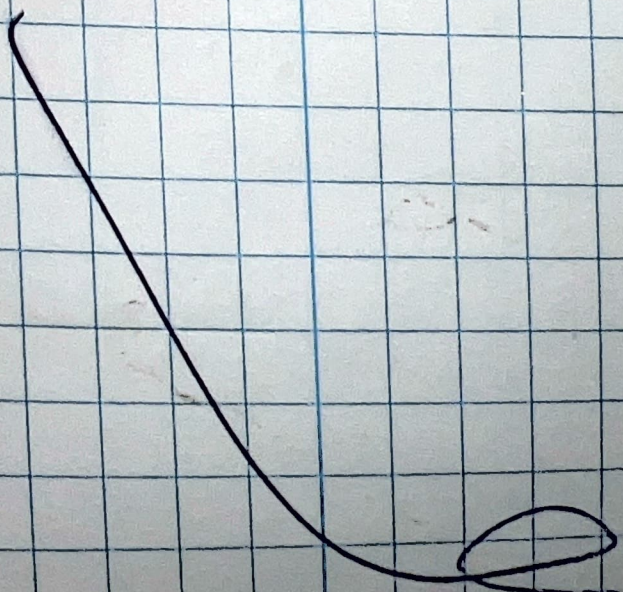
T-96, Water level Meter

1547 Arrived onsite to gauge boring
and backfill
- Reviewed JSA

Water level 27.16' below top of
casing, or 27.00' below ground
surface

Hole backfilled w/ 3/8" bentonite
chip and hydrated

1615 Offsite



[Handwritten scribbles and illegible text]



APPENDIX B

Agency Correspondence

From: [Buchanan, Michael, EMNRD](#)
To: [Stuart Hyde](#)
Cc: [Kate Kaufman](#)
Subject: RE: [EXTERNAL] nAPP2520971156 - Middle Mesa SWD Extension Request
Date: Wednesday, October 22, 2025 3:04:13 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

[**EXTERNAL EMAIL**]

Good afternoon,

The request for a 90-day extension at Middle Mesa SWD is approved. I'll go ahead and update this to reflect the incident event details online, along with the new deadline for remediation closure, which is Tuesday, January 20, 2026.

Thank you,

From: Stuart Hyde <shyde@ensolum.com>
Sent: Wednesday, October 22, 2025 1:38 PM
To: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrn.nm.gov>
Cc: Kate Kaufman <kkaufman@hilcorp.com>
Subject: [EXTERNAL] nAPP2520971156 - Middle Mesa SWD Extension Request

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

Mike,

On behalf of Hilcorp, we would like to request a 90-day extension to the October 25, 2025 reporting deadline for the Middle Mesa SWD site located in San Juan County. We are drilling a depth to water boring next week at the site and our closure criteria and the need to continue delineation depends on those results. Thanks for your assistance and please reach out with any questions.



Stuart Hyde, PG

(Licensed in TX, WA, & WY)
Senior Managing Geologist
970-903-1607

[Ensolum, LLC](#)

in f X

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

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 493605
Date: Friday, August 8, 2025 8:11:23 AM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2520971156.

The sampling event is expected to take place:

When: 08/13/2025 @ 09:00

Where: L-25-32N-07W 1555 FSL 1210 FWL (36.948342,-107.522608)

Additional Information: Stuart Hyde, 970-903-1607, delineation sampling to be performed

Additional Instructions: Hilcorp Middle Mesa SWD facility, 36.948342, -107.522608

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

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

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

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

From: OCDOnline@emnrd.nm.gov
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 554597
Date: Tuesday, February 17, 2026 9:32:23 AM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2520971156.

The sampling event is expected to take place:

When: 02/24/2026 @ 09:00

Where: K-25-32N-07W 1555 FSL 1210 FWL (36.948342,-107.522608)

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

Additional Instructions: Middle Mesa SWD (30-045-27004) 36.948342,-107.522608

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

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

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

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



APPENDIX C

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/22/2025 3:48:30 PM

JOB DESCRIPTION

Middle Mesa SWD

JOB NUMBER

885-30995-1

Eurofins Albuquerque
 4901 Hawkins NE
 Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

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

Authorization



Generated
8/22/2025 3:48:30 PM

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

Client: Hilcorp Energy
Project/Site: Middle Mesa SWD

Laboratory Job ID: 885-30995-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hilcorp Energy
Project: Middle Mesa SWD

Job ID: 885-30995-1

Job ID: 885-30995-1

Eurofins Albuquerque

Job Narrative 885-30995-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/14/2025 6:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix and abundance of target analytes: HA01@4' (885-30995-3). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The following sample required a dilution due to the nature of the sample matrix: HA01@4' (885-30995-3). 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: CCV for C28-C40 range used instead of the CCV for the C10-C28 range, which is what is normally used. CCV is within limits and therefore can be used as a CCV. Reporting as is.

(CCV 885-32683/8)

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

HPLC/IC

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

Eurofins Albuquerque



Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA01@0-0.5'

Lab Sample ID: 885-30995-1

Date Collected: 08/13/25 10:03

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		08/14/25 10:27	08/19/25 17:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			08/14/25 10:27	08/19/25 17:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/14/25 10:27	08/19/25 17:15	1
Ethylbenzene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 17:15	1
Toluene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 17:15	1
Xylenes, Total	ND		0.10	mg/Kg		08/14/25 10:27	08/19/25 17:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/14/25 10:27	08/19/25 17:15	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]	35		9.7	mg/Kg		08/15/25 09:45	08/16/25 03:29	1
Motor Oil Range Organics [C28-C40]	220		48	mg/Kg		08/15/25 09:45	08/16/25 03:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			08/15/25 09:45	08/16/25 03:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		60	mg/Kg		08/15/25 08:31	08/15/25 12:25	20

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA01@2'

Lab Sample ID: 885-30995-2

Date Collected: 08/13/25 10:11

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		08/14/25 10:27	08/19/25 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/14/25 10:27	08/19/25 18:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/14/25 10:27	08/19/25 18:26	1
Ethylbenzene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 18:26	1
Toluene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 18:26	1
Xylenes, Total	ND		0.10	mg/Kg		08/14/25 10:27	08/19/25 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/14/25 10:27	08/19/25 18:26	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]	40		9.4	mg/Kg		08/15/25 09:45	08/16/25 04:17	1
Motor Oil Range Organics [C28-C40]	160		47	mg/Kg		08/15/25 09:45	08/16/25 04:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			08/15/25 09:45	08/16/25 04:17	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		60	mg/Kg		08/15/25 08:31	08/15/25 13:34	20

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA01@4'

Lab Sample ID: 885-30995-3

Date Collected: 08/13/25 10:46

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		08/14/25 10:27	08/19/25 19:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/14/25 10:27	08/19/25 19:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/14/25 10:27	08/19/25 19:38	1
Ethylbenzene	ND		0.049	mg/Kg		08/14/25 10:27	08/19/25 19:38	1
Toluene	ND		0.049	mg/Kg		08/14/25 10:27	08/19/25 19:38	1
Xylenes, Total	ND		0.098	mg/Kg		08/14/25 10:27	08/19/25 19:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/14/25 10:27	08/19/25 19:38	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]	1000		94	mg/Kg		08/15/25 09:45	08/18/25 14:26	10
Motor Oil Range Organics [C28-C40]	3100		470	mg/Kg		08/15/25 09:45	08/18/25 14:26	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/15/25 09:45	08/18/25 14:26	10
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			08/15/25 09:45	08/18/25 18:22	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		60	mg/Kg		08/15/25 08:31	08/15/25 13:47	20

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA02@0-0.5'

Lab Sample ID: 885-30995-4

Date Collected: 08/13/25 11:12

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		08/14/25 10:27	08/19/25 20:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/14/25 10:27	08/19/25 20:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/14/25 10:27	08/19/25 20:01	1
Ethylbenzene	ND		0.047	mg/Kg		08/14/25 10:27	08/19/25 20:01	1
Toluene	ND		0.047	mg/Kg		08/14/25 10:27	08/19/25 20:01	1
Xylenes, Total	ND		0.094	mg/Kg		08/14/25 10:27	08/19/25 20:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/14/25 10:27	08/19/25 20:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		9.5	mg/Kg		08/15/25 09:45	08/18/25 13:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/15/25 09:45	08/18/25 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	125		62 - 134			08/15/25 09:45	08/18/25 13:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		60	mg/Kg		08/15/25 08:31	08/15/25 14:01	20

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA02@1

Lab Sample ID: 885-30995-5

Date Collected: 08/13/25 11:25

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		08/14/25 10:27	08/19/25 20:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/14/25 10:27	08/19/25 20:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/14/25 10:27	08/19/25 20:25	1
Ethylbenzene	ND		0.047	mg/Kg		08/14/25 10:27	08/19/25 20:25	1
Toluene	ND		0.047	mg/Kg		08/14/25 10:27	08/19/25 20:25	1
Xylenes, Total	ND		0.094	mg/Kg		08/14/25 10:27	08/19/25 20:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/14/25 10:27	08/19/25 20:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		08/15/25 09:45	08/16/25 05:28	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/15/25 09:45	08/16/25 05:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			08/15/25 09:45	08/16/25 05:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		60	mg/Kg		08/15/25 08:31	08/15/25 14:15	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA03@0-0.5'

Lab Sample ID: 885-30995-6

Date Collected: 08/13/25 12:03

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		08/14/25 10:27	08/19/25 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/14/25 10:27	08/19/25 20:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/14/25 10:27	08/19/25 20:48	1
Ethylbenzene	ND		0.048	mg/Kg		08/14/25 10:27	08/19/25 20:48	1
Toluene	ND		0.048	mg/Kg		08/14/25 10:27	08/19/25 20:48	1
Xylenes, Total	ND		0.097	mg/Kg		08/14/25 10:27	08/19/25 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/14/25 10:27	08/19/25 20:48	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]	17		10	mg/Kg		08/19/25 08:58	08/19/25 12:32	1
Motor Oil Range Organics [C28-C40]	53		50	mg/Kg		08/19/25 08:58	08/19/25 12:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			08/19/25 08:58	08/19/25 12:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/15/25 08:31	08/15/25 14:28	20

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA04@0-0.5'

Lab Sample ID: 885-30995-7

Date Collected: 08/13/25 12:20

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		08/14/25 10:27	08/19/25 21:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/14/25 10:27	08/19/25 21:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/14/25 10:27	08/19/25 21:12	1
Ethylbenzene	ND		0.049	mg/Kg		08/14/25 10:27	08/19/25 21:12	1
Toluene	ND		0.049	mg/Kg		08/14/25 10:27	08/19/25 21:12	1
Xylenes, Total	ND		0.098	mg/Kg		08/14/25 10:27	08/19/25 21:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/14/25 10:27	08/19/25 21:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/19/25 08:58	08/19/25 12:56	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/19/25 08:58	08/19/25 12:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			08/19/25 08:58	08/19/25 12:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/15/25 08:31	08/15/25 14:42	20

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA04@2'

Lab Sample ID: 885-30995-8

Date Collected: 08/13/25 12:41

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		08/14/25 10:27	08/19/25 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/14/25 10:27	08/19/25 21:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/14/25 10:27	08/19/25 21:36	1
Ethylbenzene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 21:36	1
Toluene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 21:36	1
Xylenes, Total	ND		0.099	mg/Kg		08/14/25 10:27	08/19/25 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/14/25 10:27	08/19/25 21:36	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		08/19/25 08:58	08/19/25 12:02	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/19/25 08:58	08/19/25 12:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			08/19/25 08:58	08/19/25 12:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/15/25 08:31	08/15/25 14:55	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA05@0-0.5'

Lab Sample ID: 885-30995-9

Date Collected: 08/13/25 12:35

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		08/14/25 10:27	08/19/25 21:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/14/25 10:27	08/19/25 21:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/14/25 10:27	08/19/25 21:59	1
Ethylbenzene	ND		0.049	mg/Kg		08/14/25 10:27	08/19/25 21:59	1
Toluene	ND		0.049	mg/Kg		08/14/25 10:27	08/19/25 21:59	1
Xylenes, Total	ND		0.097	mg/Kg		08/14/25 10:27	08/19/25 21:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/14/25 10:27	08/19/25 21:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		08/19/25 08:58	08/19/25 12:13	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/19/25 08:58	08/19/25 12:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			08/19/25 08:58	08/19/25 12:13	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/15/25 08:31	08/15/25 15:09	20

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA05@1'

Lab Sample ID: 885-30995-10

Date Collected: 08/13/25 13:01

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		08/14/25 10:27	08/19/25 22:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/14/25 10:27	08/19/25 22:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/14/25 10:27	08/19/25 22:23	1
Ethylbenzene	ND		0.048	mg/Kg		08/14/25 10:27	08/19/25 22:23	1
Toluene	ND		0.048	mg/Kg		08/14/25 10:27	08/19/25 22:23	1
Xylenes, Total	ND		0.097	mg/Kg		08/14/25 10:27	08/19/25 22:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/14/25 10:27	08/19/25 22:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		08/19/25 08:58	08/19/25 12:24	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/19/25 08:58	08/19/25 12:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			08/19/25 08:58	08/19/25 12:24	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/15/25 08:31	08/15/25 15:23	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA06@0-0.5'

Lab Sample ID: 885-30995-11

Date Collected: 08/13/25 13:03

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		08/14/25 10:27	08/19/25 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/14/25 10:27	08/19/25 23:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/14/25 10:27	08/19/25 23:33	1
Ethylbenzene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 23:33	1
Toluene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 23:33	1
Xylenes, Total	ND		0.099	mg/Kg		08/14/25 10:27	08/19/25 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/14/25 10:27	08/19/25 23:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		08/19/25 08:58	08/19/25 12:35	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/19/25 08:58	08/19/25 12:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			08/19/25 08:58	08/19/25 12:35	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		08/15/25 08:31	08/15/25 16:04	20

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA06@2

Lab Sample ID: 885-30995-12

Date Collected: 08/13/25 13:27

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		08/14/25 10:27	08/19/25 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/14/25 10:27	08/19/25 23:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/14/25 10:27	08/19/25 23:57	1
Ethylbenzene	ND		0.049	mg/Kg		08/14/25 10:27	08/19/25 23:57	1
Toluene	ND		0.049	mg/Kg		08/14/25 10:27	08/19/25 23:57	1
Xylenes, Total	ND		0.099	mg/Kg		08/14/25 10:27	08/19/25 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/14/25 10:27	08/19/25 23:57	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		9.3	mg/Kg		08/19/25 08:58	08/19/25 12:45	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/19/25 08:58	08/19/25 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			08/19/25 08:58	08/19/25 12:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/15/25 08:31	08/15/25 16:15	20

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA07@0-0.5'

Lab Sample ID: 885-30995-13

Date Collected: 08/13/25 13:46

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		08/14/25 10:27	08/20/25 00:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/14/25 10:27	08/20/25 00:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/14/25 10:27	08/20/25 00:21	1
Ethylbenzene	ND		0.047	mg/Kg		08/14/25 10:27	08/20/25 00:21	1
Toluene	ND		0.047	mg/Kg		08/14/25 10:27	08/20/25 00:21	1
Xylenes, Total	ND		0.094	mg/Kg		08/14/25 10:27	08/20/25 00:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/14/25 10:27	08/20/25 00:21	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		9.2	mg/Kg		08/19/25 08:58	08/19/25 13:29	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/19/25 08:58	08/19/25 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			08/19/25 08:58	08/19/25 13:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		08/15/25 08:31	08/15/25 16:29	20

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA07@1

Lab Sample ID: 885-30995-14

Date Collected: 08/13/25 14:15

Matrix: Solid

Date Received: 08/14/25 06:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		08/14/25 10:27	08/20/25 00:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/14/25 10:27	08/20/25 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		08/14/25 10:27	08/20/25 00:45	1
Ethylbenzene	ND		0.049	mg/Kg		08/14/25 10:27	08/20/25 00:45	1
Toluene	ND		0.049	mg/Kg		08/14/25 10:27	08/20/25 00:45	1
Xylenes, Total	ND		0.097	mg/Kg		08/14/25 10:27	08/20/25 00:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/14/25 10:27	08/20/25 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]	13		9.9	mg/Kg		08/19/25 11:06	08/21/25 14:51	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/19/25 11:06	08/21/25 14:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			08/19/25 11:06	08/21/25 14:51	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/15/25 08:31	08/15/25 16:42	20

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QC Sample Results

Client: Hilcorp Energy
Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

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

Lab Sample ID: MB 885-32335/1-A
Matrix: Solid
Analysis Batch: 32753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32335

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		08/14/25 10:27	08/19/25 16:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/14/25 10:27	08/19/25 16:51	1

Lab Sample ID: LCS 885-32335/2-A
Matrix: Solid
Analysis Batch: 32753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	24.2		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	196		15 - 150				

Lab Sample ID: 885-30995-1 MS
Matrix: Solid
Analysis Batch: 32753

Client Sample ID: HA01@0-0.5'
Prep Type: Total/NA
Prep Batch: 32335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		25.0	24.0		mg/Kg		96	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	195		15 - 150						

Lab Sample ID: 885-30995-1 MSD
Matrix: Solid
Analysis Batch: 32753

Client Sample ID: HA01@0-0.5'
Prep Type: Total/NA
Prep Batch: 32335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		25.0	23.6		mg/Kg		95	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	194		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-32335/1-A
Matrix: Solid
Analysis Batch: 32752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32335

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/14/25 10:27	08/19/25 16:51	1
Ethylbenzene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 16:51	1
Toluene	ND		0.050	mg/Kg		08/14/25 10:27	08/19/25 16:51	1

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

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

Lab Sample ID: MB 885-32335/1-A
 Matrix: Solid
 Analysis Batch: 32752

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 32335

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Xylenes, Total	ND		0.10	mg/Kg		08/14/25 10:27	08/19/25 16:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/14/25 10:27	08/19/25 16:51	1

Lab Sample ID: LCS 885-32335/3-A
 Matrix: Solid
 Analysis Batch: 32752

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 32335

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	1.00	0.993		mg/Kg		99	70 - 130
Ethylbenzene	1.00	0.957		mg/Kg		96	70 - 130
m&p-Xylene	2.00	2.01		mg/Kg		100	70 - 130
o-Xylene	1.00	0.970		mg/Kg		97	70 - 130
Toluene	1.00	0.972		mg/Kg		97	70 - 130
Xylenes, Total	3.00	2.98		mg/Kg		99	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		15 - 150				

Lab Sample ID: 885-30995-2 MS
 Matrix: Solid
 Analysis Batch: 32752

Client Sample ID: HA01@2'
 Prep Type: Total/NA
 Prep Batch: 32335

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.999	0.898		mg/Kg		90	70 - 130
Ethylbenzene	ND		0.999	0.894		mg/Kg		90	70 - 130
m&p-Xylene	ND		2.00	1.85		mg/Kg		93	70 - 130
o-Xylene	ND		0.999	0.893		mg/Kg		89	70 - 130
Toluene	ND		0.999	0.893		mg/Kg		89	70 - 130
Xylenes, Total	ND		3.00	2.74		mg/Kg		92	70 - 130
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		15 - 150						

Lab Sample ID: 885-30995-2 MSD
 Matrix: Solid
 Analysis Batch: 32752

Client Sample ID: HA01@2'
 Prep Type: Total/NA
 Prep Batch: 32335

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	ND		0.993	0.904		mg/Kg		91	70 - 130	1	20
Ethylbenzene	ND		0.993	0.859		mg/Kg		86	70 - 130	4	20
m&p-Xylene	ND		1.99	1.84		mg/Kg		92	70 - 130	1	20
o-Xylene	ND		0.993	0.872		mg/Kg		88	70 - 130	2	20
Toluene	ND		0.993	0.885		mg/Kg		89	70 - 130	1	20
Xylenes, Total	ND		2.98	2.71		mg/Kg		91	70 - 130	1	20

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

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

Lab Sample ID: 885-30995-2 MSD
 Matrix: Solid
 Analysis Batch: 32752

Client Sample ID: HA01@2'
 Prep Type: Total/NA
 Prep Batch: 32335

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		15 - 150

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

Lab Sample ID: MB 885-32424/1-A
 Matrix: Solid
 Analysis Batch: 32422

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 32424

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/15/25 09:45	08/15/25 19:34	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/15/25 09:45	08/15/25 19:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134	08/15/25 09:45	08/15/25 19:34	1

Lab Sample ID: LCS 885-32424/2-A
 Matrix: Solid
 Analysis Batch: 32422

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 32424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	40.5		mg/Kg		81	51 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	90		62 - 134

Lab Sample ID: MB 885-32678/1-A
 Matrix: Solid
 Analysis Batch: 32677

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 32678

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/19/25 08:58	08/19/25 11:06	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/19/25 08:58	08/19/25 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134	08/19/25 08:58	08/19/25 11:06	1

Lab Sample ID: LCS 885-32678/2-A
 Matrix: Solid
 Analysis Batch: 32677

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 32678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	47.8		mg/Kg		96	51 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	105		62 - 134

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

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

Lab Sample ID: MB 885-32725/1-A
 Matrix: Solid
 Analysis Batch: 32891

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 32725

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/19/25 11:06	08/21/25 10:51	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/19/25 11:06	08/21/25 10:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			08/19/25 11:06	08/21/25 10:51	1

Lab Sample ID: LCS 885-32725/2-A
 Matrix: Solid
 Analysis Batch: 32891

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 32725

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	50.0		mg/Kg		100	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	111		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-32399/1-A
 Matrix: Solid
 Analysis Batch: 32435

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 32399

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		08/15/25 08:31	08/15/25 10:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
Chloride	15.0		14.2	mg/Kg		95	90 - 110	

QC Association Summary

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

GC VOA

Prep Batch: 32335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-1	HA01@0-0.5'	Total/NA	Solid	5030C	
885-30995-2	HA01@2'	Total/NA	Solid	5030C	
885-30995-3	HA01@4'	Total/NA	Solid	5030C	
885-30995-4	HA02@0-0.5'	Total/NA	Solid	5030C	
885-30995-5	HA02@1	Total/NA	Solid	5030C	
885-30995-6	HA03@0-0.5'	Total/NA	Solid	5030C	
885-30995-7	HA04@0-0.5'	Total/NA	Solid	5030C	
885-30995-8	HA04@2'	Total/NA	Solid	5030C	
885-30995-9	HA05@0-0.5'	Total/NA	Solid	5030C	
885-30995-10	HA05@1'	Total/NA	Solid	5030C	
885-30995-11	HA06@0-0.5'	Total/NA	Solid	5030C	
885-30995-12	HA06@2	Total/NA	Solid	5030C	
885-30995-13	HA07@0-0.5'	Total/NA	Solid	5030C	
885-30995-14	HA07@1	Total/NA	Solid	5030C	
MB 885-32335/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-32335/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-32335/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-30995-1 MS	HA01@0-0.5'	Total/NA	Solid	5030C	
885-30995-1 MSD	HA01@0-0.5'	Total/NA	Solid	5030C	
885-30995-2 MS	HA01@2'	Total/NA	Solid	5030C	
885-30995-2 MSD	HA01@2'	Total/NA	Solid	5030C	

Analysis Batch: 32752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-1	HA01@0-0.5'	Total/NA	Solid	8021B	32335
885-30995-2	HA01@2'	Total/NA	Solid	8021B	32335
885-30995-3	HA01@4'	Total/NA	Solid	8021B	32335
885-30995-4	HA02@0-0.5'	Total/NA	Solid	8021B	32335
885-30995-5	HA02@1	Total/NA	Solid	8021B	32335
885-30995-6	HA03@0-0.5'	Total/NA	Solid	8021B	32335
885-30995-7	HA04@0-0.5'	Total/NA	Solid	8021B	32335
885-30995-8	HA04@2'	Total/NA	Solid	8021B	32335
885-30995-9	HA05@0-0.5'	Total/NA	Solid	8021B	32335
885-30995-10	HA05@1'	Total/NA	Solid	8021B	32335
885-30995-11	HA06@0-0.5'	Total/NA	Solid	8021B	32335
885-30995-12	HA06@2	Total/NA	Solid	8021B	32335
885-30995-13	HA07@0-0.5'	Total/NA	Solid	8021B	32335
885-30995-14	HA07@1	Total/NA	Solid	8021B	32335
MB 885-32335/1-A	Method Blank	Total/NA	Solid	8021B	32335
LCS 885-32335/3-A	Lab Control Sample	Total/NA	Solid	8021B	32335
885-30995-2 MS	HA01@2'	Total/NA	Solid	8021B	32335
885-30995-2 MSD	HA01@2'	Total/NA	Solid	8021B	32335

Analysis Batch: 32753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-1	HA01@0-0.5'	Total/NA	Solid	8015M/D	32335
885-30995-2	HA01@2'	Total/NA	Solid	8015M/D	32335
885-30995-3	HA01@4'	Total/NA	Solid	8015M/D	32335
885-30995-4	HA02@0-0.5'	Total/NA	Solid	8015M/D	32335
885-30995-5	HA02@1	Total/NA	Solid	8015M/D	32335
885-30995-6	HA03@0-0.5'	Total/NA	Solid	8015M/D	32335

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QC Association Summary

Client: Hilcorp Energy
Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

GC VOA (Continued)

Analysis Batch: 32753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-7	HA04@0-0.5'	Total/NA	Solid	8015M/D	32335
885-30995-8	HA04@2'	Total/NA	Solid	8015M/D	32335
885-30995-9	HA05@0-0.5'	Total/NA	Solid	8015M/D	32335
885-30995-10	HA05@1'	Total/NA	Solid	8015M/D	32335
885-30995-11	HA06@0-0.5'	Total/NA	Solid	8015M/D	32335
885-30995-12	HA06@2	Total/NA	Solid	8015M/D	32335
885-30995-13	HA07@0-0.5'	Total/NA	Solid	8015M/D	32335
885-30995-14	HA07@1	Total/NA	Solid	8015M/D	32335
MB 885-32335/1-A	Method Blank	Total/NA	Solid	8015M/D	32335
LCS 885-32335/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32335
885-30995-1 MS	HA01@0-0.5'	Total/NA	Solid	8015M/D	32335
885-30995-1 MSD	HA01@0-0.5'	Total/NA	Solid	8015M/D	32335

GC Semi VOA

Analysis Batch: 32422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-1	HA01@0-0.5'	Total/NA	Solid	8015M/D	32424
885-30995-2	HA01@2'	Total/NA	Solid	8015M/D	32424
885-30995-5	HA02@1	Total/NA	Solid	8015M/D	32424
MB 885-32424/1-A	Method Blank	Total/NA	Solid	8015M/D	32424
LCS 885-32424/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32424

Prep Batch: 32424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-1	HA01@0-0.5'	Total/NA	Solid	SHAKE	
885-30995-2	HA01@2'	Total/NA	Solid	SHAKE	
885-30995-3	HA01@4'	Total/NA	Solid	SHAKE	
885-30995-4	HA02@0-0.5'	Total/NA	Solid	SHAKE	
885-30995-5	HA02@1	Total/NA	Solid	SHAKE	
MB 885-32424/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-32424/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 32574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-3	HA01@4'	Total/NA	Solid	8015M/D	32424

Analysis Batch: 32576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-3	HA01@4'	Total/NA	Solid	8015M/D	32424
885-30995-4	HA02@0-0.5'	Total/NA	Solid	8015M/D	32424

Analysis Batch: 32677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-8	HA04@2'	Total/NA	Solid	8015M/D	32678
885-30995-9	HA05@0-0.5'	Total/NA	Solid	8015M/D	32678
885-30995-10	HA05@1'	Total/NA	Solid	8015M/D	32678
885-30995-11	HA06@0-0.5'	Total/NA	Solid	8015M/D	32678
885-30995-12	HA06@2	Total/NA	Solid	8015M/D	32678
885-30995-13	HA07@0-0.5'	Total/NA	Solid	8015M/D	32678
MB 885-32678/1-A	Method Blank	Total/NA	Solid	8015M/D	32678

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QC Association Summary

Client: Hilcorp Energy
Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

GC Semi VOA (Continued)

Analysis Batch: 32677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-32678/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32678

Prep Batch: 32678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-6	HA03@0-0.5'	Total/NA	Solid	SHAKE	
885-30995-7	HA04@0-0.5'	Total/NA	Solid	SHAKE	
885-30995-8	HA04@2'	Total/NA	Solid	SHAKE	
885-30995-9	HA05@0-0.5'	Total/NA	Solid	SHAKE	
885-30995-10	HA05@1'	Total/NA	Solid	SHAKE	
885-30995-11	HA06@0-0.5'	Total/NA	Solid	SHAKE	
885-30995-12	HA06@2	Total/NA	Solid	SHAKE	
885-30995-13	HA07@0-0.5'	Total/NA	Solid	SHAKE	
MB 885-32678/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-32678/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 32683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-6	HA03@0-0.5'	Total/NA	Solid	8015M/D	32678
885-30995-7	HA04@0-0.5'	Total/NA	Solid	8015M/D	32678

Prep Batch: 32725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-14	HA07@1	Total/NA	Solid	SHAKE	
MB 885-32725/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-32725/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 32891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-14	HA07@1	Total/NA	Solid	8015M/D	32725
MB 885-32725/1-A	Method Blank	Total/NA	Solid	8015M/D	32725
LCS 885-32725/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32725

HPLC/IC

Prep Batch: 32399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-1	HA01@0-0.5'	Total/NA	Solid	300_Prep	
885-30995-2	HA01@2'	Total/NA	Solid	300_Prep	
885-30995-3	HA01@4'	Total/NA	Solid	300_Prep	
885-30995-4	HA02@0-0.5'	Total/NA	Solid	300_Prep	
885-30995-5	HA02@1	Total/NA	Solid	300_Prep	
885-30995-6	HA03@0-0.5'	Total/NA	Solid	300_Prep	
885-30995-7	HA04@0-0.5'	Total/NA	Solid	300_Prep	
885-30995-8	HA04@2'	Total/NA	Solid	300_Prep	
885-30995-9	HA05@0-0.5'	Total/NA	Solid	300_Prep	
885-30995-10	HA05@1'	Total/NA	Solid	300_Prep	
885-30995-11	HA06@0-0.5'	Total/NA	Solid	300_Prep	
885-30995-12	HA06@2	Total/NA	Solid	300_Prep	
885-30995-13	HA07@0-0.5'	Total/NA	Solid	300_Prep	
885-30995-14	HA07@1	Total/NA	Solid	300_Prep	
MB 885-32399/1-A	Method Blank	Total/NA	Solid	300_Prep	

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QC Association Summary

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

HPLC/IC (Continued)

Prep Batch: 32399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-32399/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 32435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30995-1	HA01@0-0.5'	Total/NA	Solid	300.0	32399
885-30995-2	HA01@2'	Total/NA	Solid	300.0	32399
885-30995-3	HA01@4'	Total/NA	Solid	300.0	32399
885-30995-4	HA02@0-0.5'	Total/NA	Solid	300.0	32399
885-30995-5	HA02@1	Total/NA	Solid	300.0	32399
885-30995-6	HA03@0-0.5'	Total/NA	Solid	300.0	32399
885-30995-7	HA04@0-0.5'	Total/NA	Solid	300.0	32399
885-30995-8	HA04@2'	Total/NA	Solid	300.0	32399
885-30995-9	HA05@0-0.5'	Total/NA	Solid	300.0	32399
885-30995-10	HA05@1'	Total/NA	Solid	300.0	32399
885-30995-11	HA06@0-0.5'	Total/NA	Solid	300.0	32399
885-30995-12	HA06@2	Total/NA	Solid	300.0	32399
885-30995-13	HA07@0-0.5'	Total/NA	Solid	300.0	32399
885-30995-14	HA07@1	Total/NA	Solid	300.0	32399
MB 885-32399/1-A	Method Blank	Total/NA	Solid	300.0	32399
LCS 885-32399/2-A	Lab Control Sample	Total/NA	Solid	300.0	32399

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA01@0-0.5'

Lab Sample ID: 885-30995-1

Date Collected: 08/13/25 10:03

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 17:15
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 17:15
Total/NA	Prep	SHAKE			32424	JM	EET ALB	08/15/25 09:45
Total/NA	Analysis	8015M/D		1	32422	JE	EET ALB	08/16/25 03:29
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 12:25

Client Sample ID: HA01@2'

Lab Sample ID: 885-30995-2

Date Collected: 08/13/25 10:11

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 18:26
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 18:26
Total/NA	Prep	SHAKE			32424	JM	EET ALB	08/15/25 09:45
Total/NA	Analysis	8015M/D		1	32422	JE	EET ALB	08/16/25 04:17
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 13:34

Client Sample ID: HA01@4'

Lab Sample ID: 885-30995-3

Date Collected: 08/13/25 10:46

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 19:38
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 19:38
Total/NA	Prep	SHAKE			32424	JM	EET ALB	08/15/25 09:45
Total/NA	Analysis	8015M/D		10	32576	DH	EET ALB	08/18/25 14:26
Total/NA	Prep	SHAKE			32424	JM	EET ALB	08/15/25 09:45
Total/NA	Analysis	8015M/D		10	32574	BZR	EET ALB	08/18/25 18:22
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 13:47

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA02@0-0.5'

Lab Sample ID: 885-30995-4

Date Collected: 08/13/25 11:12

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 20:01
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 20:01
Total/NA	Prep	SHAKE			32424	JM	EET ALB	08/15/25 09:45
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 13:09
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 14:01

Client Sample ID: HA02@1

Lab Sample ID: 885-30995-5

Date Collected: 08/13/25 11:25

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 20:25
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 20:25
Total/NA	Prep	SHAKE			32424	JM	EET ALB	08/15/25 09:45
Total/NA	Analysis	8015M/D		1	32422	JE	EET ALB	08/16/25 05:28
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 14:15

Client Sample ID: HA03@0-0.5'

Lab Sample ID: 885-30995-6

Date Collected: 08/13/25 12:03

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 20:48
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 20:48
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32683	EM	EET ALB	08/19/25 12:32
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 14:28

Client Sample ID: HA04@0-0.5'

Lab Sample ID: 885-30995-7

Date Collected: 08/13/25 12:20

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 21:12

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA04@0-0.5'

Lab Sample ID: 885-30995-7

Date Collected: 08/13/25 12:20

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 21:12
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32683	EM	EET ALB	08/19/25 12:56
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 14:42

Client Sample ID: HA04@2'

Lab Sample ID: 885-30995-8

Date Collected: 08/13/25 12:41

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 21:36
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 21:36
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32677	EM	EET ALB	08/19/25 12:02
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 14:55

Client Sample ID: HA05@0-0.5'

Lab Sample ID: 885-30995-9

Date Collected: 08/13/25 12:35

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 21:59
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 21:59
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32677	EM	EET ALB	08/19/25 12:13
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 15:09

Client Sample ID: HA05@1'

Lab Sample ID: 885-30995-10

Date Collected: 08/13/25 13:01

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 22:23
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 22:23

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA05@1'

Lab Sample ID: 885-30995-10

Date Collected: 08/13/25 13:01

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32677	EM	EET ALB	08/19/25 12:24
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 15:23

Client Sample ID: HA06@0-0.5'

Lab Sample ID: 885-30995-11

Date Collected: 08/13/25 13:03

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 23:33
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 23:33
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32677	EM	EET ALB	08/19/25 12:35
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 16:04

Client Sample ID: HA06@2

Lab Sample ID: 885-30995-12

Date Collected: 08/13/25 13:27

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/19/25 23:57
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/19/25 23:57
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32677	EM	EET ALB	08/19/25 12:45
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 16:15

Client Sample ID: HA07@0-0.5'

Lab Sample ID: 885-30995-13

Date Collected: 08/13/25 13:46

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/20/25 00:21
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/20/25 00:21
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32677	EM	EET ALB	08/19/25 13:29

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

Client Sample ID: HA07@0-0.5'

Lab Sample ID: 885-30995-13

Date Collected: 08/13/25 13:46

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 16:29

Client Sample ID: HA07@1

Lab Sample ID: 885-30995-14

Date Collected: 08/13/25 14:15

Matrix: Solid

Date Received: 08/14/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8015M/D		1	32753	AT	EET ALB	08/20/25 00:45
Total/NA	Prep	5030C			32335	KLS	EET ALB	08/14/25 10:27
Total/NA	Analysis	8021B		1	32752	AT	EET ALB	08/20/25 00:45
Total/NA	Prep	SHAKE			32725	BZR	EET ALB	08/19/25 11:06
Total/NA	Analysis	8015M/D		1	32891	DR	EET ALB	08/21/25 14:51
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 16:42

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-30995-1

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: Kate Kaufman
 Phone #:
 email or Fax#: k.kaufman@hilcorp.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance Other
 NELAC Other
 EDD (Type)
 Turn-Around Time: Standard Rush
 Project Name: Middle Mesa SWD



www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109 885-30995 COC
 Tel. 505-345-3975 Fax 505-345-4107

Project Manager: Stuart Hyde
 shyde@ensalum.com
 Sampler: Osgeod F. + Ari S.
 On Ice: Yes No **ADM**
 # of Coolers: **2**
 Cooler Temp (including CFJ): **3.4-0.2-3.2**
4.0-0.2-4.4 (°C)

Analysis Request	
<input checked="" type="checkbox"/> BTEX / TMB's (8021)	TPH:8015D (GRO / DRO / MRO)
<input checked="" type="checkbox"/> 8081 Pesticides/8082 PCBs	EDB (Method 504.1)
<input checked="" type="checkbox"/> PAHs by 8310 or 8270SIMS	RCRA 8 Metals
<input checked="" type="checkbox"/> Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)
<input checked="" type="checkbox"/> 8270 (Semi-VOA)	Total Coliform (Present/Absent)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8/13/25	1003	Soil	HA01@0-0.5'	4 oz, one	on ice	
	1011		HA01@2'			
	1046		HA01@4'			
	1112		HA02@0-0.5'			
	1125		HA02@1'			
	1203		HA03@0-0.5'			
	1220		HA03 of HA04@0-0.5'			
	1241		HA04@2'			
	1235		HA05@0-0.5'			
	1301		HA05@1'			
	1303		HA06@0-0.5'			
8/13/25	1327	Soil	HA06@4'	4 oz, one	on ice	

Received by: *[Signature]* Date: 8/13/25 Time: 1634
 Relinquished by: *[Signature]*
 Received by: *[Signature]* Date: 8/14/25 Time: 0:30
 Relinquished by: *[Signature]*

Remarks:
 CC: ofroelich@ensalum.com
 aschermer@ensalum.com
 shyde@ensalum.com
 For NMOCD Page 1 of 2

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: 885-30995-1

Login Number: 30995

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499
Generated 10/6/2025 12:52:52 PM

JOB DESCRIPTION

Middle Mesa SWD

JOB NUMBER

885-34105-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

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

Authorization



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10/6/2025 12:52:52 PM

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

Client: Hilcorp Energy
Project/Site: Middle Mesa SWD

Laboratory Job ID: 885-34105-1



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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hilcorp Energy
Project: Middle Mesa SWD

Job ID: 885-34105-1

Job ID: 885-34105-1

Eurofins Albuquerque

Job Narrative 885-34105-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/25/2025 6:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

Method 300_OF_28D_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-35461 and analytical batch 885-35555 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Eurofins Albuquerque



Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

Client Sample ID: SS01@0-6'

Lab Sample ID: 885-34105-1

Date Collected: 09/24/25 10:09

Matrix: Solid

Date Received: 09/25/25 06:50

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		09/25/25 13:04	09/27/25 02:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			09/25/25 13:04	09/27/25 02:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/25/25 13:04	09/27/25 02:58	1
Ethylbenzene	ND		0.049	mg/Kg		09/25/25 13:04	09/27/25 02:58	1
Toluene	ND		0.049	mg/Kg		09/25/25 13:04	09/27/25 02:58	1
Xylenes, Total	ND		0.098	mg/Kg		09/25/25 13:04	09/27/25 02:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			09/25/25 13:04	09/27/25 02:58	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]	26		9.8	mg/Kg		10/02/25 16:30	10/03/25 19:21	1
Motor Oil Range Organics [C28-C40]	69		49	mg/Kg		10/02/25 16:30	10/03/25 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			10/02/25 16:30	10/03/25 19:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		50	mg/Kg		09/26/25 06:11	09/26/25 16:53	10

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

Client Sample ID: PH01@4'

Lab Sample ID: 885-34105-2

Date Collected: 09/24/25 09:55

Matrix: Solid

Date Received: 09/25/25 06:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/25/25 13:04	09/27/25 03:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			09/25/25 13:04	09/27/25 03:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/25/25 13:04	09/27/25 03:20	1
Ethylbenzene	ND		0.047	mg/Kg		09/25/25 13:04	09/27/25 03:20	1
Toluene	ND		0.047	mg/Kg		09/25/25 13:04	09/27/25 03:20	1
Xylenes, Total	ND		0.095	mg/Kg		09/25/25 13:04	09/27/25 03:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			09/25/25 13:04	09/27/25 03:20	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		10/02/25 16:30	10/03/25 19:34	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		10/02/25 16:30	10/03/25 19:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			10/02/25 16:30	10/03/25 19:34	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		50	mg/Kg		09/26/25 06:11	09/26/25 17:03	10

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

Client Sample ID: PH01@5'

Lab Sample ID: 885-34105-3

Date Collected: 09/24/25 10:02

Matrix: Solid

Date Received: 09/25/25 06:50

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		09/25/25 13:04	09/27/25 03:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			09/25/25 13:04	09/27/25 03:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/25/25 13:04	09/27/25 03:42	1
Ethylbenzene	ND		0.050	mg/Kg		09/25/25 13:04	09/27/25 03:42	1
Toluene	ND		0.050	mg/Kg		09/25/25 13:04	09/27/25 03:42	1
Xylenes, Total	ND		0.10	mg/Kg		09/25/25 13:04	09/27/25 03:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			09/25/25 13:04	09/27/25 03:42	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]	14		8.8	mg/Kg		10/02/25 16:30	10/03/25 19:46	1
Motor Oil Range Organics [C28-C40]	50		44	mg/Kg		10/02/25 16:30	10/03/25 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			10/02/25 16:30	10/03/25 19:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		50	mg/Kg		09/26/25 06:35	09/27/25 09:56	10

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

Client Sample ID: PH01@6'

Lab Sample ID: 885-34105-4

Date Collected: 09/24/25 10:05

Matrix: Solid

Date Received: 09/25/25 06:50

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		09/25/25 13:04	09/27/25 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			09/25/25 13:04	09/27/25 04:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/25/25 13:04	09/27/25 04:04	1
Ethylbenzene	ND		0.050	mg/Kg		09/25/25 13:04	09/27/25 04:04	1
Toluene	ND		0.050	mg/Kg		09/25/25 13:04	09/27/25 04:04	1
Xylenes, Total	ND		0.10	mg/Kg		09/25/25 13:04	09/27/25 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			09/25/25 13:04	09/27/25 04:04	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]	91		8.4	mg/Kg		10/02/25 16:30	10/03/25 19:59	1
Motor Oil Range Organics [C28-C40]	330		42	mg/Kg		10/02/25 16:30	10/03/25 19:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			10/02/25 16:30	10/03/25 19:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150	F1 F2	50	mg/Kg		09/26/25 06:35	09/27/25 10:36	10

QC Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

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

Lab Sample ID: MB 885-35407/1-A
 Matrix: Solid
 Analysis Batch: 35506

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 35407

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/25/25 13:04	09/26/25 15:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			09/25/25 13:04	09/26/25 15:10	1

Lab Sample ID: LCS 885-35407/2-A
 Matrix: Solid
 Analysis Batch: 35506

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 35407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	23.8		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	190		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-35407/1-A
 Matrix: Solid
 Analysis Batch: 35507

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 35407

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/25/25 13:04	09/26/25 15:10	1
Ethylbenzene	ND		0.050	mg/Kg		09/25/25 13:04	09/26/25 15:10	1
Toluene	ND		0.050	mg/Kg		09/25/25 13:04	09/26/25 15:10	1
Xylenes, Total	ND		0.10	mg/Kg		09/25/25 13:04	09/26/25 15:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			09/25/25 13:04	09/26/25 15:10	1

Lab Sample ID: LCS 885-35407/3-A
 Matrix: Solid
 Analysis Batch: 35507

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 35407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.952		mg/Kg		95	70 - 130
Ethylbenzene	1.00	0.949		mg/Kg		95	70 - 130
m&p-Xylene	2.00	1.88		mg/Kg		94	70 - 130
o-Xylene	1.00	0.937		mg/Kg		94	70 - 130
Toluene	1.00	0.943		mg/Kg		94	70 - 130
Xylenes, Total	3.00	2.81		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	93		15 - 150				

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

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

Lab Sample ID: MB 885-35943/1-A
 Matrix: Solid
 Analysis Batch: 35979

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 35943

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		10/02/25 16:30	10/03/25 13:29	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		10/02/25 16:30	10/03/25 13:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			10/02/25 16:30	10/03/25 13:29	1

Lab Sample ID: LCS 885-35943/2-A
 Matrix: Solid
 Analysis Batch: 35979

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 35943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	49.0		mg/Kg		98	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	97		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-35460/1-A
 Matrix: Solid
 Analysis Batch: 35463

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 35460

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		09/26/25 06:11	09/26/25 11:53	1

Lab Sample ID: LCS 885-35460/2-A
 Matrix: Solid
 Analysis Batch: 35463

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 35460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	49.8	49.0		mg/Kg		98	90 - 110

Lab Sample ID: MB 885-35461/1-A
 Matrix: Solid
 Analysis Batch: 35555

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 35461

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		4.9	mg/Kg		09/26/25 06:35	09/27/25 09:21	1

Lab Sample ID: LCS 885-35461/2-A
 Matrix: Solid
 Analysis Batch: 35555

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 35461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.4		mg/Kg		97	90 - 110

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-34105-3 MS
 Matrix: Solid
 Analysis Batch: 35555

Client Sample ID: PH01@5'
 Prep Type: Total/NA
 Prep Batch: 35461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	150		50.0	190		mg/Kg		87	50 - 150

Lab Sample ID: 885-34105-3 MSD
 Matrix: Solid
 Analysis Batch: 35555

Client Sample ID: PH01@5'
 Prep Type: Total/NA
 Prep Batch: 35461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	150		50.0	193		mg/Kg		91	50 - 150	1	20

QC Association Summary

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

GC VOA

Prep Batch: 35407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34105-1	SS01@0-6'	Total/NA	Solid	5030C	
885-34105-2	PH01@4'	Total/NA	Solid	5030C	
885-34105-3	PH01@5'	Total/NA	Solid	5030C	
885-34105-4	PH01@6'	Total/NA	Solid	5030C	
MB 885-35407/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-35407/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-35407/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 35506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-35407/1-A	Method Blank	Total/NA	Solid	8015M/D	35407
LCS 885-35407/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	35407

Analysis Batch: 35507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-35407/1-A	Method Blank	Total/NA	Solid	8021B	35407
LCS 885-35407/3-A	Lab Control Sample	Total/NA	Solid	8021B	35407

Analysis Batch: 35538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34105-1	SS01@0-6'	Total/NA	Solid	8021B	35407
885-34105-2	PH01@4'	Total/NA	Solid	8021B	35407
885-34105-3	PH01@5'	Total/NA	Solid	8021B	35407
885-34105-4	PH01@6'	Total/NA	Solid	8021B	35407

Analysis Batch: 35539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34105-1	SS01@0-6'	Total/NA	Solid	8015M/D	35407
885-34105-2	PH01@4'	Total/NA	Solid	8015M/D	35407
885-34105-3	PH01@5'	Total/NA	Solid	8015M/D	35407
885-34105-4	PH01@6'	Total/NA	Solid	8015M/D	35407

GC Semi VOA

Prep Batch: 35943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34105-1	SS01@0-6'	Total/NA	Solid	SHAKE	
885-34105-2	PH01@4'	Total/NA	Solid	SHAKE	
885-34105-3	PH01@5'	Total/NA	Solid	SHAKE	
885-34105-4	PH01@6'	Total/NA	Solid	SHAKE	
MB 885-35943/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-35943/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 35979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34105-1	SS01@0-6'	Total/NA	Solid	8015M/D	35943
885-34105-2	PH01@4'	Total/NA	Solid	8015M/D	35943
885-34105-3	PH01@5'	Total/NA	Solid	8015M/D	35943
885-34105-4	PH01@6'	Total/NA	Solid	8015M/D	35943
MB 885-35943/1-A	Method Blank	Total/NA	Solid	8015M/D	35943
LCS 885-35943/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	35943

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QC Association Summary

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

HPLC/IC

Prep Batch: 35460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34105-1	SS01@0-6'	Total/NA	Solid	300_Prep	
885-34105-2	PH01@4'	Total/NA	Solid	300_Prep	
MB 885-35460/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-35460/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 35461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34105-3	PH01@5'	Total/NA	Solid	300_Prep	
885-34105-4	PH01@6'	Total/NA	Solid	300_Prep	
MB 885-35461/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-35461/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-34105-3 MS	PH01@5'	Total/NA	Solid	300_Prep	
885-34105-3 MSD	PH01@5'	Total/NA	Solid	300_Prep	

Analysis Batch: 35463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34105-1	SS01@0-6'	Total/NA	Solid	300.0	35460
885-34105-2	PH01@4'	Total/NA	Solid	300.0	35460
MB 885-35460/1-A	Method Blank	Total/NA	Solid	300.0	35460
LCS 885-35460/2-A	Lab Control Sample	Total/NA	Solid	300.0	35460

Analysis Batch: 35555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-34105-3	PH01@5'	Total/NA	Solid	300.0	35461
885-34105-4	PH01@6'	Total/NA	Solid	300.0	35461
MB 885-35461/1-A	Method Blank	Total/NA	Solid	300.0	35461
LCS 885-35461/2-A	Lab Control Sample	Total/NA	Solid	300.0	35461
885-34105-3 MS	PH01@5'	Total/NA	Solid	300.0	35461
885-34105-3 MSD	PH01@5'	Total/NA	Solid	300.0	35461

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

Client Sample ID: SS01@0-6'

Lab Sample ID: 885-34105-1

Date Collected: 09/24/25 10:09

Matrix: Solid

Date Received: 09/25/25 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35407	AT	EET ALB	09/25/25 13:04
Total/NA	Analysis	8015M/D		1	35539	AT	EET ALB	09/27/25 02:58
Total/NA	Prep	5030C			35407	AT	EET ALB	09/25/25 13:04
Total/NA	Analysis	8021B		1	35538	AT	EET ALB	09/27/25 02:58
Total/NA	Prep	SHAKE			35943	DH	EET ALB	10/02/25 16:30
Total/NA	Analysis	8015M/D		1	35979	EM	EET ALB	10/03/25 19:21
Total/NA	Prep	300_Prep			35460	JT	EET ALB	09/26/25 06:11
Total/NA	Analysis	300.0		10	35463	MA	EET ALB	09/26/25 16:53

Client Sample ID: PH01@4'

Lab Sample ID: 885-34105-2

Date Collected: 09/24/25 09:55

Matrix: Solid

Date Received: 09/25/25 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35407	AT	EET ALB	09/25/25 13:04
Total/NA	Analysis	8015M/D		1	35539	AT	EET ALB	09/27/25 03:20
Total/NA	Prep	5030C			35407	AT	EET ALB	09/25/25 13:04
Total/NA	Analysis	8021B		1	35538	AT	EET ALB	09/27/25 03:20
Total/NA	Prep	SHAKE			35943	DH	EET ALB	10/02/25 16:30
Total/NA	Analysis	8015M/D		1	35979	EM	EET ALB	10/03/25 19:34
Total/NA	Prep	300_Prep			35460	JT	EET ALB	09/26/25 06:11
Total/NA	Analysis	300.0		10	35463	MA	EET ALB	09/26/25 17:03

Client Sample ID: PH01@5'

Lab Sample ID: 885-34105-3

Date Collected: 09/24/25 10:02

Matrix: Solid

Date Received: 09/25/25 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35407	AT	EET ALB	09/25/25 13:04
Total/NA	Analysis	8015M/D		1	35539	AT	EET ALB	09/27/25 03:42
Total/NA	Prep	5030C			35407	AT	EET ALB	09/25/25 13:04
Total/NA	Analysis	8021B		1	35538	AT	EET ALB	09/27/25 03:42
Total/NA	Prep	SHAKE			35943	DH	EET ALB	10/02/25 16:30
Total/NA	Analysis	8015M/D		1	35979	EM	EET ALB	10/03/25 19:46
Total/NA	Prep	300_Prep			35461	JT	EET ALB	09/26/25 06:35
Total/NA	Analysis	300.0		10	35555	RC	EET ALB	09/27/25 09:56

Client Sample ID: PH01@6'

Lab Sample ID: 885-34105-4

Date Collected: 09/24/25 10:05

Matrix: Solid

Date Received: 09/25/25 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35407	AT	EET ALB	09/25/25 13:04
Total/NA	Analysis	8015M/D		1	35539	AT	EET ALB	09/27/25 04:04

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

Client Sample ID: PH01@6'

Lab Sample ID: 885-34105-4

Date Collected: 09/24/25 10:05

Matrix: Solid

Date Received: 09/25/25 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35407	AT	EET ALB	09/25/25 13:04
Total/NA	Analysis	8021B		1	35538	AT	EET ALB	09/27/25 04:04
Total/NA	Prep	SHAKE			35943	DH	EET ALB	10/02/25 16:30
Total/NA	Analysis	8015M/D		1	35979	EM	EET ALB	10/03/25 19:59
Total/NA	Prep	300_Prep			35461	JT	EET ALB	09/26/25 06:35
Total/NA	Analysis	300.0		10	35555	RC	EET ALB	09/27/25 10:36

Laboratory References:

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



Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: Middle Mesa SWD

Job ID: 885-34105-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

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

Chain-of-Custody Record

Client: Hilcorp
 Attn: Kate Kaufman
 Mailing Address:


Turn-Around Time:
 Standard Rush
 Project Name:
Middle Mesa SWD
 Project #:

Phone #:
 email or Fax#: kkaufman@hilcorp.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: AZ Compliance
 NELAC Other
 EDD (Type)

Project Manager: Nes Weichert
wweicherteensdum.com
 Sampler: Zach Myers
 On Ice: Yes No Abby
 # of Coolers: 1
 Cooler Temp (including CF): 0.9-0.2-0.7 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9-24	1009	soil	SS01@0-6"	4 oz jar	cool	
	955		PH01@4'			
	1002		PH01@5'			
	1005		PH01@6'			

Date	Time	Via	Date	Time
9/24/25	1200		9/24/25	1200
9/24/25	5:40		9/25/25	1:50



HALL ENVIRONMENTAL ANALYSIS LAB
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87105
 Tel. 505-345-3975 Fax 505-345-4107
 885-34105 COC

Analysis Request

<input checked="" type="checkbox"/> BTEX / MTBE / TMB / (8021)	<input checked="" type="checkbox"/> TPH: 8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	<input checked="" type="checkbox"/> Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
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Remarks:
zmyerse@ensdum.com



Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-34105-1

Login Number: 34105

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

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



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
jeremy.allen@greenanalytical.com

04 March 2026

Kate Kaufman
Hilcorp
382 CR 3100
Aztec, NM 87410
RE: Middle Mesa SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 02/24/26 12:20. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C26-00037

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C25-00101

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2602285-01: PH01@ 6.5'	4
Quality Assurance Results	5
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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolum)
Project Name / Number: Middle Mesa SWD 1
Project Manager: Kate Kaufman

Reported:
03/04/26 17:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
PH01@ 6.5'	2602285-01	Solid	02/24/26 09:44	02/24/26 12:20	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolium)
Project Name / Number: Middle Mesa SWD 1
Project Manager: Kate Kaufman

Reported:
03/04/26 17:15

PH01@ 6.5'

2602285-01 (Soil)

Sampled Date: 02/24/26 09:44

Sampled By:

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

General Chemistry

% Dry Solids	83.6			%	1	03/03/26 16:29	EPA 160.3/1684		SSM
--------------	------	--	--	---	---	----------------	----------------	--	-----

Soluble (DI Water Extraction)

Chloride*	73.9	12.0	5.95	mg/kg dry	10	03/02/26 17:33	EPA 300.0		AWG
-----------	------	------	------	-----------	----	----------------	-----------	--	-----

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.009	mg/kg	50	02/26/26 21:20	8021B		JH
Ethylbenzene*	<0.050	0.050	0.010	mg/kg	50	02/26/26 21:20	8021B		JH
Toluene*	<0.050	0.050	0.010	mg/kg	50	02/26/26 21:20	8021B		JH
Total BTEX	<0.300	0.300	0.055	mg/kg	50	02/26/26 21:20	8021B		JH
Total Xylenes*	<0.150	0.150	0.026	mg/kg	50	02/26/26 21:20	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141 02/26/26 21:20 8021B JH

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	45.5	10.0	6.18	mg/kg	1	02/25/26 18:02	8015B		JF
EXT DRO >C28-C36	21.2	10.0	6.18	mg/kg	1	02/25/26 18:02	8015B		JF
GRO C6-C10*	<10.0	10.0	5.72	mg/kg	1	02/25/26 18:02	8015B		JF

Surrogate: 1-Chlorooctadecane 84.1 % 39.9-141 02/25/26 18:02 8015B JF

Surrogate: 1-Chlorooctane 78.7 % 52.4-130 02/25/26 18:02 8015B JF

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolium) Project Name / Number: Middle Mesa SWD 1 Project Manager: Kate Kaufman	Reported: 03/04/26 17:15
---	---	------------------------------------

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B260629 - General Prep-SOILS										
Duplicate (B260629-DUP1) Source: 2602325-01 Prepared: 03/02/26 Analyzed: 03/03/26										
% Dry Solids	54.4		%		53.8			1.14	20	
Duplicate (B260629-DUP2) Source: 2602293-01 Prepared: 03/02/26 Analyzed: 03/03/26										
% Dry Solids	90.3		%		90.3			0.0666	20	

Soluble (DI Water Extraction) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B260628 - IC- Ion Chromatograph										
Blank (B260628-BLK1) Prepared: 03/02/26 Analyzed: 03/03/26										
Chloride	ND	1.00	mg/kg wet							
LCS (B260628-BS1) Prepared: 03/02/26 Analyzed: 03/03/26										
Chloride	241	10.0	mg/kg wet	250		96.4	85-115			
LCS Dup (B260628-BSD1) Prepared & Analyzed: 03/02/26										
Chloride	231	10.0	mg/kg wet	250		92.3	85-115	4.35	20	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolium)
Project Name / Number: Middle Mesa SWD 1
Project Manager: Kate Kaufman

Reported:
03/04/26 17:15

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6022509 - Volatiles

Blank (6022509-BLK1)

Prepared: 02/25/26 Analyzed: 02/26/26

Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	70.4-141			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (6022509-BS1)

Prepared: 02/25/26 Analyzed: 02/26/26

Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.1	70.4-141			
Benzene	2.09	0.050	mg/kg	2.00		104	71-111			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.5	74.2-119			
m,p-Xylene	3.80	0.100	mg/kg	4.00		95.0	72.5-123			
o-Xylene	1.92	0.050	mg/kg	2.00		96.1	70.5-124			
Toluene	1.97	0.050	mg/kg	2.00		98.5	75-116			
Total Xylenes	5.72	0.150	mg/kg	6.00		95.4	72.2-123			

LCS Dup (6022509-BSD1)

Prepared: 02/25/26 Analyzed: 02/26/26

Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	70.4-141			
Benzene	2.13	0.050	mg/kg	2.00		106	71-111	1.74	17.6	
Ethylbenzene	1.92	0.050	mg/kg	2.00		96.2	74.2-119	2.89	14.2	
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.6	72.5-123	2.73	13.6	
o-Xylene	1.99	0.050	mg/kg	2.00		99.3	70.5-124	3.26	13.7	
Toluene	2.00	0.050	mg/kg	2.00		100	75-116	1.57	14.8	
Total Xylenes	5.89	0.150	mg/kg	6.00		98.2	72.2-123	2.91	13.3	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolium) Project Name / Number: Middle Mesa SWD 1 Project Manager: Kate Kaufman	Reported: 03/04/26 17:15
---	---	-----------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6022516 - General Prep - Organics

Blank (6022516-BLK1)

Prepared & Analyzed: 02/25/26

Surrogate: 1-Chlorooctadecane	41.5		mg/kg	50.0		83.0	39.9-141			
Surrogate: 1-Chlorooctane	41.7		mg/kg	50.0		83.4	52.4-130			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (6022516-BS1)

Prepared & Analyzed: 02/25/26

Surrogate: 1-Chlorooctadecane	45.4		mg/kg	50.0		90.8	39.9-141			
Surrogate: 1-Chlorooctane	45.7		mg/kg	50.0		91.5	52.4-130			
DRO >C10-C28	174	10.0	mg/kg	200		86.8	74.8-123			
GRO C6-C10	170	10.0	mg/kg	200		84.8	78.7-123			
Total TPH C6-C28	343	10.0	mg/kg	400		85.8	78.6-121			

LCS Dup (6022516-BSD1)

Prepared & Analyzed: 02/25/26

Surrogate: 1-Chlorooctadecane	42.0		mg/kg	50.0		84.0	39.9-141			
Surrogate: 1-Chlorooctane	40.9		mg/kg	50.0		81.9	52.4-130			
DRO >C10-C28	183	10.0	mg/kg	200		91.7	74.8-123	5.56	10.9	
GRO C6-C10	172	10.0	mg/kg	200		85.8	78.7-123	1.20	11.3	
Total TPH C6-C28	355	10.0	mg/kg	400		88.8	78.6-121	3.43	10.5	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp	Project: NM Oil and Gas Tests (Ensolum)	
382 CR 3100	Project Name / Number: Middle Mesa SWD 1	Reported:
Aztec NM, 87410	Project Manager: Kate Kaufman	03/04/26 17:15

Notes and Definitions

- M2 Matrix spike recovery was below laboratory acceptance criteria. Recovery possibly affected by a matrix interference in the sample. The method blank spike recovery was acceptable.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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75 Suttle Street
Durango, CO 81303
(970) 247-4220

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Note: Write-Out™ or similar products cannot be used on the Chain of Custody

Company or Client: HILCORP ENERGY COMPANY		Address:		City:		State:		Zip:		Bill to (if different):		ANALYSIS REQUEST	
Phone #:		Contact Person: Kate Kaufman		Email Report to: kkaufman@hilcorp.com		Project Name (optional): Middle Mesa SWD 1		Sampler Name (Print):		P.O. #:			
Lab I.D. 9602-285 Lab Use Only		Sample Name or Location		Collected		Matrix (check one)		Rush? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		TAT Needed? STANDARD TAT			
				Date		Time		GROUNDWATER SURFACE WATER WASTEWATER PRODUCED WATER DRINKING WATER SOIL <input checked="" type="checkbox"/> OTHER:		# of containers			
1) PH01 @ G.S.		2/24/2016		0944									
2)													
3)													
4)													
5)													
6)													
7)													
8)													
9)													
10)													

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 2/24/2016	Received By:	Date: 2/24/2016	ADDITIONAL REMARKS:
Relinquished By:	Date: 1/22/20	Received By:	Date: 1/22/20	CC: shyde@ensolum.com
Relinquished By:	Date:	Received By:	Date:	wweichert@ensolum.com

Temperature at receipt: **6.5** °C
Checked by: **CM**
On Ice? Yes No
Therm. used: **1**

* GAL cannot accept verbal changes. Please email changes to receiving@greanalytical.com
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.



SAMPLE CONDITION RECEIPT FORM

Date/Initials of person examining contents:	2/24/26 CAN
Labeled by initials:	_____
<small>(if different than above)</small>	

Client Name: Hilcorp Energy Co.

Work Order # 2602-285

Courier: Fed Ex UPS USPS Client Kangaroo Third Party Other

Custody Seals on Box/Cooler Present: Yes No Seals Intact: Yes No GAL Cooler #: _____

Thermometer Used: 492 Samples on ice, cooling process has begun: Yes No

Type of Ice: Wet Blue None Cooler Temp: Observed Temp: 6.5 °C Correction Factor: 0 °C Final Temp: 6.5 °C

Temp: _____ °C *Temp should be above freezing 6°C, if multiple readings are taken the lowest temp is the final temp recorded.

Temp: _____ °C

Temp: _____ °C

Compliance: Yes No

Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
COC Signed when Relinquished and Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and Signature on COC: <small>*Required for compliance</small>	<input type="checkbox"/> Yes <input type="checkbox"/> No	3.
Samples arrived within hold time: <small>(Excluding pH)</small>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Correct Containers Used & Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr): <small>(Excluding pH)</small>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
pH's acceptable upon receipt, where applicable: <small>*Not including metals bottles</small>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Dissolved Testing Needed: Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Sample Labels match COC: <small>-Includes Date/Time/ID</small>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Matrix:	WT <u>SL</u> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
VOA's meet headspace requirement (<6mm bubbles)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Non-Conformance(s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



APPENDIX D

Photographic Log



Photographic Log
Hilcorp Energy Company
Middle Mesa SWD 1
San Juan County, New Mexico



Photograph: 1 Date: 8/13/2025
Description: Release source from the A1 filter pot
View: North



Photograph: 2 Date: 8/13/2025
Description: Location HA01/PH01 and area just outside equipment building
View: North



Photograph: 3 Date: 8/13/2025
Description: Release footprint southeast of the equipment building
View: Southeast



Photograph: 4 Date: 8/13/2025
Description: Release footprint northwest of the equipment building
View: Southwest



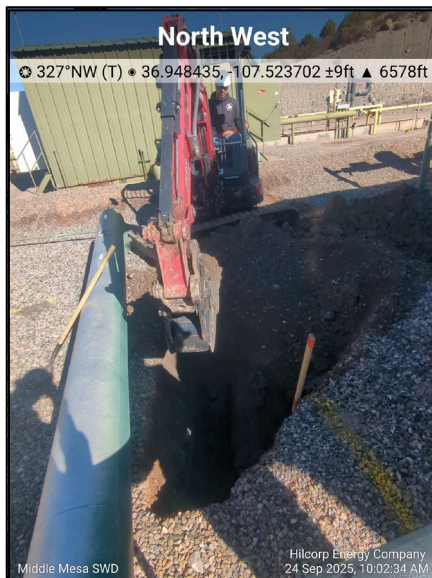
Photographic Log
Hilcorp Energy Company
Middle Mesa SWD 1
San Juan County, New Mexico



Photograph: 5 Date: 8/13/2025
Description: Hand auger location HA02
View: West



Photograph: 6 Date: 8/13/2025
Description: Hand auger location HA03
View: South



Photograph: 7 Date: 9/24/2025
Description: Pothole location PH01
View: Northwest



Photograph: 8 Date: 2/24/2026
Description: Additional sampling at pothole location PH01
View: West



APPENDIX E

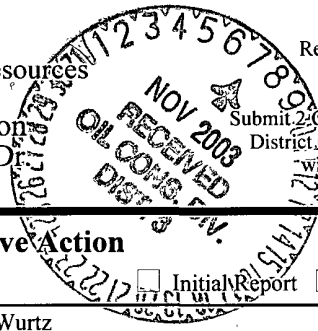
Historical Release C-141 and Supplemental Information

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St Francis Dr. Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised June 10, 2003



Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

30 045 27004

OPERATOR

Initial Report Final Report

Name of Company	Burlington Resources	Contact	Gregg Wurtz
Address	P.O. Box 4289 Farmington NM 87499	Telephone No.	(505) 326-9537
Facility Name	Middle Mesa SWD #1	Facility Type	Salt Water Disposal Well
Surface Owner	BLM	Mineral Owner	BLM
		Lease No.	NM-2996

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	25	32N	7 W	1555	South	1210	West	San Juan

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	15 BBLS.	Volume Recovered	0 BBLS.
Source of Release	Primary Filter Pod	Date and Hour of Occurrence	10/22/2003	Date and Hour of Discovery	10/22/2003 12:00:00 PM
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	Denny Foust		
By Whom?	Gregg Wurtz	Date and Hour	10/25/2003 10:00:00		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	0		

If a Watercourse was Impacted, Describe Fully.*
None. All contained within facility boundary

Describe Cause of Problem and Remedial Action Taken.*
Filter pod equipment failure. The seal between dome lid of the filter pod and main filter pod body failed. The failure allowed water under pressure to release from the filter pod. The water released was not recovered because the water was absorbed into a gravel area and subsequently by the soil underlying the gravel. The filter pod was taken out of service and will be reconditioned to satisfactory condition or replaced. See attached for more detail.

Describe Area Affected and Cleanup Action Taken.*
An area approximately 50 feet by 100 feet within the boundary of the facility adjacent to the western end of the filter house and within the graveled area of the storage tank battery. See attached for more detail.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Gregg Wurtz</i>	OIL CONSERVATION DIVISION	
Printed Name: Gregg Wurtz	Approved by District Supervisor: <i>Denny Foust</i> for Frank Chavez	
Title: Environmental Representative	Approval Date: 11/20/03	Expiration Date:
E-mail Address: lhasely@br-inc. com or gwurtz@br-inc.com	Conditions of Approval: Repair or Replacement of Filter Pod	Attached <input type="checkbox"/>
Date: 11-04-03	Phone: (505) 326-9841 or 9537	

* Attach Additional Sheets If Necessary

see n DGFO332526897
n DGFO332528472

BURLINGTON RESOURCES

SAN JUAN DIVISION

November 4, 2003

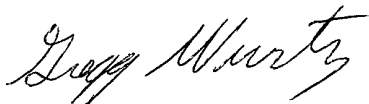
New Mexico Oil Conservation Division
Attn: Denny Foust
1000 Rio Brazos Road
Aztec, NM 87410

Re: Middle Mesa SWD #1 Filter Pod Leaking
Unit L of Section 25, Township 32 North, Range 7 West, NMPM, San Juan County, NM

Mr. Foust:

Attached are two copies of Burlington Resources Oil & Gas Company's report of an undesirable event at the referenced facility. In addition, supplemental information is provided regarding the event. If you have any questions concerning this release notification please contact me at 326-9537.

Sincerely,



Gregg Wurtz
Environmental Specialist

Attachment: Release Incident Report and Additional Information

cc: Mark Kelley, BLM
Release File
Correspondence

Middle Mesa #1 Filter Pod Leaking Incident

Supplemental Information

1. The filters in primary filter pod bank were replaced by a contractor Oct. 21, 2003. The contractor reported that the technician waited 30 mins. after installation of filters to detect potential problems/leaks from the filter pods. No leaks were detected at the time of the filter replacement.
2. Burlington Resources (BR) lease operator Rodger Lanier was at the SWD facility on the morning of October 23, 2003. He reported the filter pod was not leaking during the visit.
3. OCD employee Bruce Martin observed one filter pod leaking inside the filter building on Oct. 23, 2003 and contact BR lease operator Rodger Lanier.
4. Burlington Resources lease operator Rodger Lanier met Bruce Martin at the SWD facility to determine cause of leak and stopped the filter pod from leaking.
5. Roger Lanier then reported the spill to Hans Dube, Production Area foreman for BR.
6. Mr. Dube reported the spill to BR's EH&S Dept., Gregg Wurtz.
7. Mr. Wurtz provided spill notification verbally to Denny Foust 10/23/03.
8. Mr. Wurtz visited the SWD facility on 10/23/03 to gain more information regarding the cause of the problem, the area affected, and start remedial actions
9. Mr. Wurtz and Mr. Dube visited the location 10/27/03 and develop long and short term plans address the leaking filter pods identified by OCD.
10. The filter pod causing the leak was taken out of service to prevent the potential for future equipment failure 10/27/03.
11. Mr. Wurtz and Mr. Dube meet with Denny Foust to communicate the facts of the spill event and the corrective actions completed and planned 10/28/03.
12. As a preventative measure all the filter pods were inspected and four of the pods were sent into town for reconditioning 11/3/03.

I have read the Release Notification submitted by Burlington Resources, and wish to note, that I did not inspect the facility in the fall of 2002, nor the spring of 2003. I have attached a table of my well inspections for this facility, taken from RBDMS and listed them here.

Date	Purpose for Inspection	Comment
12/22/98	5 yr. MIT	BRADENHEAD HAD 652PSI. DID NOT APPEAR TO HAVE EVER BEEN TESTED.
5/19/99	Routine/Periodic	A-OK. All Equipment and Location in Good Shape.
9/2/99	BH Test	20 PSI ON BRADENHEAD BLEW TO ZERO IN 2 MIN 10 SEC. NO FLUID.
3/15/00	Routine/Periodic	Pit near the truck-unloading header is running over.
8/1/00	Routine/Periodic	Oil sump pit is running over oil & produced water on ground around the filter bldg.
4/18/01	Routine/Periodic	A-OK. All Equipment and Location in Good Shape.
10/2/01	Routine/Periodic	A-OK. All Equipment and Location in Good Shape.
5/17/02	Routine/Periodic	A-OK. All Equipment and Location in Good Shape.
10/22/03	Routine/Periodic	Several produced water tanks are leaking. There is standing produced water on the ground. The filter vessels were leaking badly, produced water was running out of the building onto the ground. Several bbls of?? Sitting directly on the ground. Small amount of oil on ground under oil slop tank load valve.
11/10/03	Routine/Periodic	Leaking tanks have been patched, inspection ports have been cut into every produced water tank. . The filter vessels have been removed. The tanks are being drained for removal and inspection.

Bruce Martin 
 Deputy Oil & Gas Inspector

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

General Information
Phone: (505) 629-6116

Online Phone Directory
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 566554

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 566554
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2520971156
Incident Name	NAPP2520971156 MIDDLE MESA SWD 1 @ 30-045-27004
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-045-27004] MIDDLE MESA SWD #001

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	MIDDLE MESA SWD 1
Date Release Discovered	07/28/2025
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Gasket Produced Water Released: 89 BBL Recovered: 60 BBL Lost: 29 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Action 566554

QUESTIONS (continued)

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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	<i>Not answered.</i>

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: 03/25/2026
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Action 566554

QUESTIONS (continued)

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

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4100
GRO+DRO (EPA SW-846 Method 8015M)	1000
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes 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	01/02/2040
On what date will (or did) the final sampling or liner inspection occur	01/02/2040
On what date will (or was) the remediation complete(d)	01/02/2040
What is the estimated surface area (in square feet) that will be reclaimed	400
What is the estimated volume (in cubic yards) that will be reclaimed	60
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	90

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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Action 566554

QUESTIONS (continued)

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

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112336756 ENVIROTECH LANDFARM #2
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 03/25/2026
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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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Action 566554

QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Pipelines, injection equipment, filter pots, building and foundation
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	400
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	90
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-045-27004 MIDDLE MESA SWD #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>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>	
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: 03/25/2026

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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	554597
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/24/2026
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

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

Action 566554

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Final remediation and reclamation for Middle Mesa SWD 1 App ID 566554. Deferral approved. Deferral of HA01 and PH01 are approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	3/31/2026