ENSOLUM

July 23, 2025

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

Re: Updated Site Summary Report and Closure Request
San Juan 27-5 Unit 35A
Rio Arriba, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2502675060

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Summary Report and Closure Request* for the release of condensate at the San Juan 27-5 Unit 35A natural gas production well (Site). The Site is located on private land in Unit F, Section 33, Township 27 North, Range 5 West, Rio Arriba, New Mexico (Figure 1).

SITE BACKGROUND

On January 25, 2025, Hilcorp operations identified a release of 29 barrels (bbls) of condensate at the Site. The Hilcorp field operator noticed stained soil around the tank and discovered condensate leaking from small pinholes near the bottom of the sidewall of the aboveground storage tank (AST). Upon discovery, the operator drained the remaining 41 bbls of fluid into the on-Site below grade tank (BGT) to stop the leak and shut in the production well. The primary cause of the release was due to corrosion of the tank. The release remained within the secondary containment berm and the release extent covered an area approximately 25 feet wide and 10 feet long. No released fluid was recovered from within the secondary containment berm.

Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) on January 26, 2025, and the Site was assigned release Incident Number nAPP2502675060.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The Site is located in Tertiary (Eocene) age San Jose 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 approximately 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

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

To assess Site-specific depth-to-groundwater, borehole BH01 was advanced on June 23, 2025 to a depth of 55 feet below ground surface (bgs). Soil logging indicated the borehole was dry to the terminal depth during drilling. Upon completion, the open borehole was allowed to equilibrate for 72 hours. A water-level indicator was used to assess for the presence or absence of groundwater on June 26, 2025. Groundwater was not encountered in the borehole at a depth of approximately 51 feet bgs (sluff had filled the boring from 55 to 51 feet bgs), indicating the depth to groundwater beneath the Site is greater than 50 feet bgs. The nearest well is a cathodic protection well located on the San Juan 27-5 Unit #68 well pad located 2,275 feet east of the Site. The depth to water recorded on the data sheet is 70 feet bgs. The nearest NMOSE-permitted well is permit number RG-81026 located 8,290 feet east of the Site and has a recorded depth to water of 186 feet bgs. Information regarding the depth to water determination is included in Appendix A including the drilling log and photograph of the water-level indicator showing no water encountered.

The closest significant watercourse is an intermittent stream located 884 feet west-southwest of the Site and is identified as 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). No wellhead protection areas, springs, or domestic/stock wells are located within a 500-foot radius from the Site. The Site is not within the 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the Bureau of Land Management, or 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 I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria for constituents of concern (COCs) should be applied to the Site:

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

2025 SITE ASSESSMENT ACTIVITIES

To assess potential soil impacts resulting from the release, Ensolum advanced five hand auger borings (HA01 through HA05) on January 31, 2025. The NMOCD was notified prior to commencing on-Site activities, with sampling notifications provided in Appendix B. Boring HA01 was advanced within the release footprint inside of the secondary containment berm to assess petroleum hydrocarbon concentrations at the release source. Borings HA02 through HA05 were advanced outside of the release footprint to laterally delineate potential impacts resulting from the release (Figure 2). All hand auger borings were advanced to a depth of 10 feet bgs. Soil samples were field screened at 1-foot intervals

for the presence of organic vapors using a calibrated photoionization detector (PID). PID field screening results are included in Table 1.

Two soil samples were collected from each hand auger boring: one from the depth interval indicating the greatest potential for impacts based on field screening measurements/observations and one from the terminus of each boring. Soil samples were collected directly into laboratory-provided jars, immediately placed on ice, and submitted to Eurofins Environment Testing for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015M/D; and chloride following EPA Method 300.0. Concentrations of total BTEX, TPH, and/or chloride in the soil samples collected during the January 2025 assessment were less than the applicable NMOCD Table I Closure Criteria. The highest result of 570 mg/kg TPH came from the center of the release footprint (HA01) at the depth interval of 7 feet bgs, which indicated the highest field screening measurements and observations. Laboratory analytical results for all soil samples submitted indicated all COCs were in compliance with the Closure Criteria and lateral and vertical delineation confirmed the extent of the release by being in compliance with the strictest Closure Criteria.

Based on a request by the NMOCD, additional delineation samples were collected on June 26, 2025 from sample locations SS02 through SS05 shown on Figure 2. These samples were collected from the same general locations as HA02 through HA05 from depths of ground surface to 0.5 feet bgs. Samples were collected in the manner described above and analyzed from TPH, BTEX, and chloride. Sample results indicated there were no detectable concentrations of COCs above the laboratory reporting limits, corroborating other analytical data for the definition of the release and confirming the absence of impacts to soil.

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

CONCLUSIONS AND CLOSURE REQUEST

Based on the delineation activities and soil analytical results described above, petroleum hydrocarbon and/or chloride contaminants were not detected in any of the samples collected at the Site above the NMOCD Table I Closure Criteria. As such, Site conditions appear to be protective of human health, the environment, and groundwater and Hilcorp respectfully requests closure for Incident Number nAPP2502675060.

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 document to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely,
Ensolum, LLC

Zach Myers
Staff Geologist
(614)323-4728
zmyers@ensolum.com

Stuart Hyde
Senior Managing Geologist
(970) 903-1607
shyde@ensolum.com

Attachments:

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

Table 1: Soil Sample Analytical Results

Appendix A: Depth to Water Determination
Appendix B: Agency Correspondence
Appendix C: Photographic Log
Appendix D: Laboratory Analytical Reports

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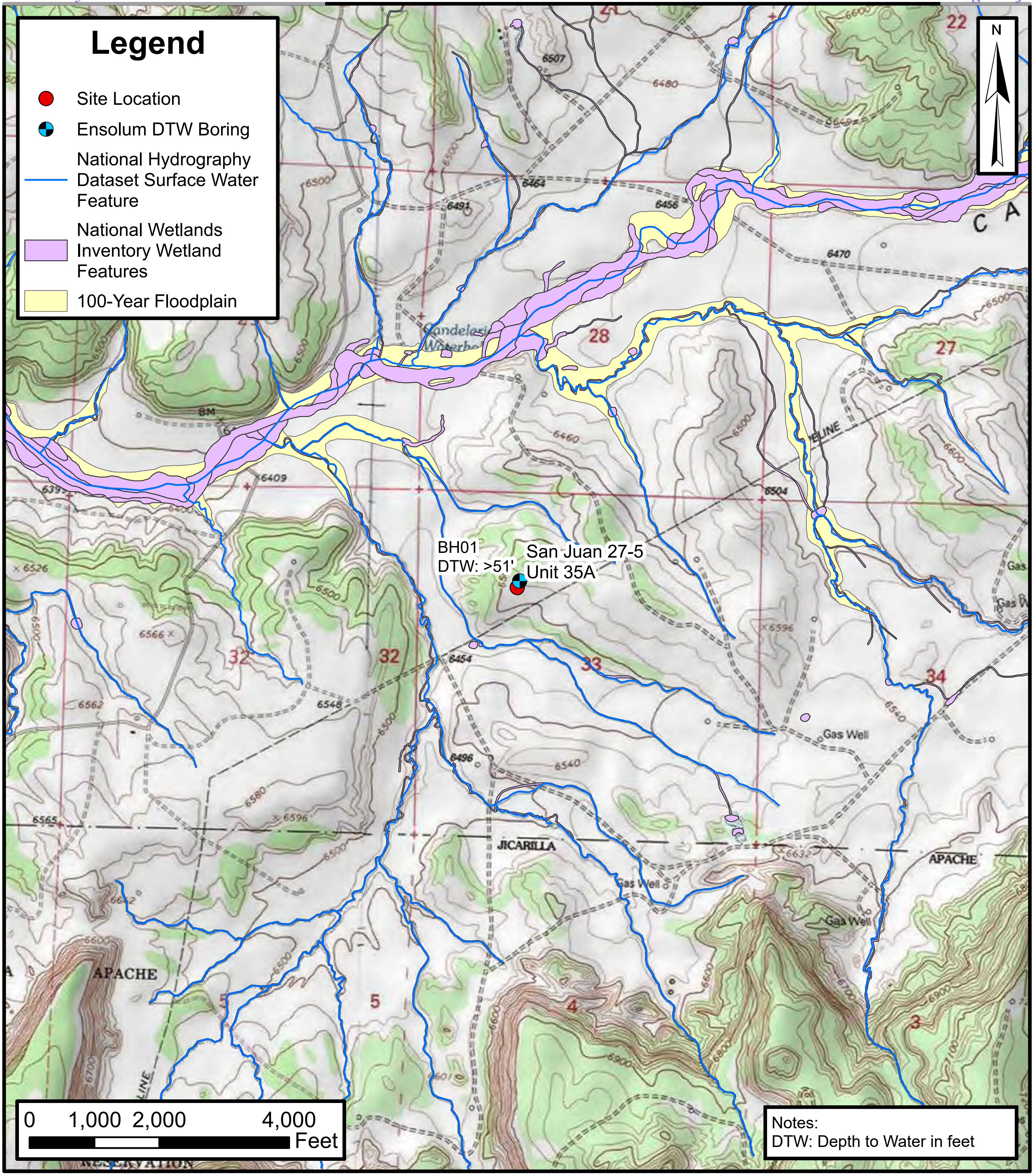
FIGURES



Default Folder: C:\Users\Greg Palese\OneDrive - ENSOLUM, LLC\Desktop\Ensolum GIS\Ensolum GIS1 - Durango\Hilcorp\San Juan 27-5 Unit 35A

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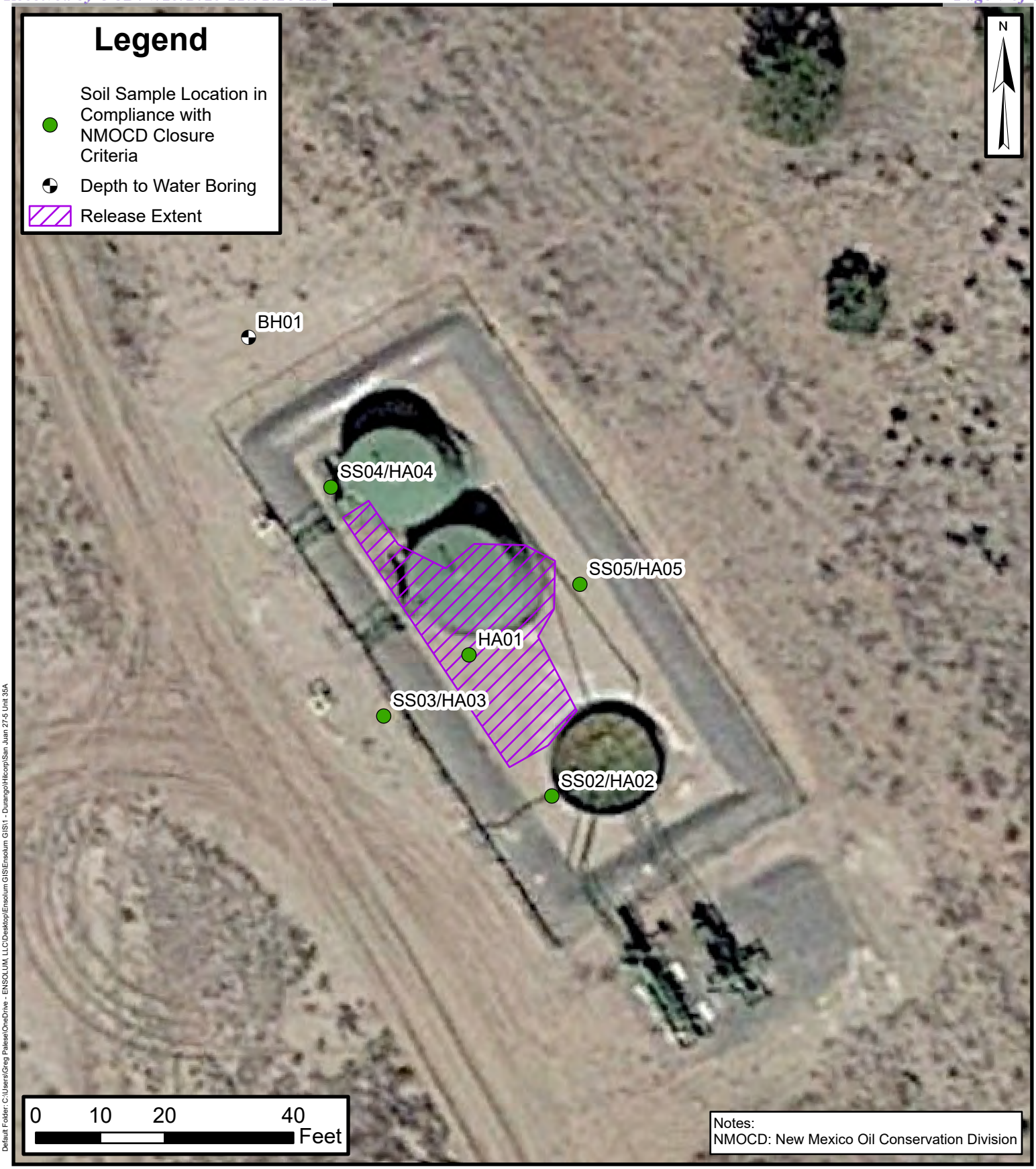
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

San Juan 27-5 Unit 35A
Hilcorp Energy Company
36.534077°, -107.367854°
Rio Arriba County, New Mexico

FIGURE
1

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



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Environmental, Engineering and Hydrogeologic Consultants

Soil Sample Locations

San Juan 27-5 Unit 35A
Hilcorp Energy Company
36.534077°, -107.367854°
Rio Arriba County, New Mexico

FIGURE
2

Sources: Google Earth (2016)

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
San Juan 27-5 Unit 35A
Hilcorp Energy Company
Rio Arriba, New Mexico

Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			NE	**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Hand Auger Soil Sample Locations														
HA01@1'	1/31/2025	1	1,749	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@2'	1/31/2025	2	1,935	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@3'	1/31/2025	3	2,987	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@4'	1/31/2025	4	2,224	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@5'	1/31/2025	5	3,167	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@6'	1/31/2025	6	3,039	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@7'	1/31/2025	7	3,407	0.20	7.0	2.4	22	31.6	460	110 F1	<48	570	570	<60
HA01@8'	1/31/2025	8	3,088	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@9'	1/31/2025	9	3,199	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@10'	1/31/2025	10	1,708	<0.024	0.21	0.074	0.78	1.064	13	14	<47	27	27	<60
HA02@4'	1/31/2025	4	14.9	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<49	<9.7	<49	<60
HA02@10'	1/31/2025	10	8.9	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.7	<49	<9.7	<49	<60
HA03@6'	1/31/2025	6	11.8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<46	<9.2	<46	<60
HA03@10'	1/31/2025	10	9.7	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.2	<46	<9.2	<46	<60
HA04@7'	1/31/2025	7	21.7	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.5	<47	<9.5	<47	<60
HA04@10'	1/31/2025	10	10.4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.3	<47	<9.3	<47	<60
HA05@05'	1/31/2025	5	25.8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<46	<9.3	<46	<59
HA05@10'	1/31/2025	10	8.8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<48	<9.5	<48	<60
Surface Soil Sample Locations														
SS02@0-6"	6/26/2025	0 - 0.5	2.8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<14.1	<46	<60
SS03@0-6"	6/26/2025	0 - 0.5	2.4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.2	<46	<13.9	<46	<60
SS04@0-6"	6/26/2025	0 - 0.5	3.2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.5	<47	<14.1	<47	<60
SS05@0-6"	6/26/2025	0 - 0.5	2.8	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<8.8	<44	<13.4	<44	<61

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
mg/kg: Milligrams per kilogram
F1: MS and/or MSD recovery exceeds control limits.
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
PID: Photoionization detector
ppm: Parts per million
NS: Not Sampled
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon
': Feet
< : Indicates result less than the stated laboratory reporting limit (RL)

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APPENDIX A

Depth to Water Determination

DAILY DRILLING REPORT

JOB COMPLETED ☑ YES ☐ NO

NO. JOBS THIS DAY 2

Client ENSOLUM Date 6-23-25 Start: 7:00 End: 6:30

Project SAN JUAN 27-5 UNIT 35A Job No. 23-825

Location _____ City _____

Project Type: ☐ Contract ☐ WT ☑ Enviro ☐ Geotech ☐ Labor Only ☐ Other _____

DRILLING

CLIENT HOLE NO.	DRILL DEPTH FROM -	DRILL DEPTH TO -	PERCOLATION	BIT SIZE	BIT TYPE	NO. OF SAMPLES RING	SPLIT	CA	BN
1	0	55'							

FOOTAGE DRILLED _____ DRILL RATE PER HOUR _____ TOTAL SAMPLES _____

FORMATION DRILLED AND DEPTH

- ☑ SAND
- ☑ SILT
- ☑ CLAY
- ☐ CALICHE
- ☐ GRAVEL
- ☐ COBBLES
- ☑ MEDIUM SOFT
- ☑ MEDIUM HARD
- ☐ EXTREMELY HARD
- ☐ REFUSAL

GROUNDWATER TABLE ENCOUNTERED ☐ YES ☑ NO

GROUNDWATER DEPTH _____

FUNCTION	SERVICE PERFORMED	QTY.	RATE	CHARGE
262	MAKE READY / DECONTAMINATION - BEFORE / AFTER JOB	3.5		
212	MOBILIZE / DEMOBILIZE EQUIPMENT	2.0		
212	DRILLING INCLUDES: SAFETY MEETING			
	DRILL OPERATIONS	2.0		
	REAMING HOLE(S)			
	MOVING BETWEEN SITE(S)			
	GROUTING, HOURS ____ FEET ____			
	SITE CLEANUP			
212	MISCELLANEOUS LABOR INCLUDES: DECONTAMINATION SERVICES			
	MOVING DRUMS			
	CREW TRAVEL WITHOUT RIG	4.0		
212	LABORER			
212	WELL INSTALLATION			
212	WELL DEVELOPMENT			
212	WELL ABANDONMENT			
250	STANDBY & DELAYS (EXPLAIN)			
212	CREW OVERTIME			
-	PER DIEM			
212	MEAL / MISC. BREAKS (DOT REQUIRED)			
278	CREW BREAK			
276	PERMITS / REPORTS			
277	SUPERVISORY TIME			

REMARKS: _____

MAN-HOUR ALLOCATION	HOURS
OPERATOR Rod B	
ASSISTANT Fortino V	
LABORER	

— SIGNATURE APPROVING WORK CONTENT —

CLIENT SIGNATURE: _____

P.O./W.O./JOB NO.: _____

RENTALS / SUPPLIES	QTY.	RATE	CHARGE
SUPPORT VEHICLE / TRAILER	1		
GENERATOR			
TRAILER(S)			
CORING MACHINE / SAW CUT			
BULLET TEETH			
PORTLAND CEMENT			
PRE-MIX			
ASPHALT			
VISQUEEN			
DRUMS			
BRASS SLEEVES, SIZE:			
PVC CASING IN. X 5 FT.			
PVC CASING IN. X 10 FT.			
SCREEN .0 ___ 0 SLOT IN. X 5 FT.			
SCREEN .0 ___ 0 SLOT IN. X 10 FT.			
TOP LOCKING CAP			
BOTTOM CAP			
SAND-SACKS, GRADE NO.:			
WELL VAULT, SIZE: IN.			
BENTONITE PELLETS, PAILS:			
BENTONITE POWDER, SACKS:			
JACK HAMMER			
AIR COMPRESSOR, SIZE:			

EQUIPMENT	UNIT NO.	STARTING MILEAGE	ENDING MILEAGE	TOTAL MILES	RATE	CHARGE
RIG	794					
SUPPORT VEHICLE	HERC					

RIG / TRUCK DOWN TIME, HOURS (EXPLAIN BELOW)

DAMAGED OR LOST EQUIPMENT: _____

White - Invoicing; Yellow - Client

Enviro-Drill

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Client: HEC
Project Name: SJ 27-5 35A
Project Location: NM
Project Manager: S. Hyde

BORING LOG NUMBER: BH01
Project No.:

Date Sampled: 7-15-25
Drilled By: Enviro drill
Driller: Rodney
Logged By: EC

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:

Borehole Diameter: 8"
Casing Diameter: NA
Well Materials: NA
Surface Completion: NA
Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0		Not measured	No split spoons.	Not measured		dry fn. silty sand tan	
1							
2							
3							
4							
5							
6						moist tan silty sand	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

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Client: HEC
Project Name: SJ 27-5 35A
Project Location: NM
Project Manager: S. Hyde

BORING LOG NUMBER: BH01
Project No.:

Date Sampled: 7-15-25
Drilled By: Envirodrill
Driller: Rodney
Logged By: EC

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:

Borehole Diameter: 8"
Casing Diameter: NA
Well Materials: NA
Surface Completion: NA
Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25		NM	NM	NM		moist tan silty sand	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39						moist med sand some gravel	
40							
41							
42							
43							
44						Dry ~~moist~~ clayey shale drk	
45						brown cohesive platy	
46							
47							
48						TD = 55' bgs	
49							
50							

1113 68-30-039-06847

142-30-039-20466

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

Operator MERIDIAN OIL Location: Unit NE Sec. 33 Twp 27 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #68, #142

cps 1802w

Elevation 6496' Completion Date 10/24/85 Total Depth 320' Land Type* N/A

Casing, Sizes, Types & Depths N/A

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

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 70' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 3940 lbs.

Depths anodes placed: 270', 260', 250', 200', 190', 180', 170', 160', 130', 100'

Depths vent pipes placed: 315'

Vent pipe perforations: 260'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. D
DIST. 3

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

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

FM 07-0238 (Rev. 6-82)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto). ☐ Completion Date 10/24/85

CPS #	Well Name, Line or Plant	Work Order #	Static	Ins Union Check
1802 W	S.J. 27-5 #68 S.J. 27-5 #142	54076 54978	.64V S .74V S	☒ Good ☐ Bad

Location	Anode Size	Anode Type	Size Bit
NE 33-27-5	2" X 60"	DURION	6 3/4"

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs Coke Used	Lost Circulation Mat'l Used	No Sacks Mud Used
320	315		3940		

Anode Depth	#1 270	#2 260	#3 250	#4 200	#5 190	#6 180	#7 170	#8 160	#9 130	#10 100
Anode Output (Amps)	#1 3.8	#2 4.1	#3 4.1	#4 3.8	#5 4.1	#6 4.1	#7 4.1	#8 3.9	#9 3.9	#10 5.1
Anode Depth	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Output (Amps)	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.8	Amps 19.2	Ohms .61		

Remarks: DRILLED TO 140'. DRILLER SAID WATER AT 70'. WATER STANDING IN HOLE NEXT A.M. AT 70'. DRILLED TO 320', LOGGED 315'. INSTALLED 315' of 1" P.V.C. VENT PIPE, PERFERATED TO 55'.

Rectifier Size: 60 V 30 A - 1150.00
Addn'l Depth —
Depth Credit: 185' x 3.00 = 555.00
Extra Cable: 180' x .37 = 66.60
Ditch & 1 Cable: 205' x 1.35 = 276.75
25' Meter Pole: —
20' Meter Pole: —
10' Stub Pole: 1 - 400.00

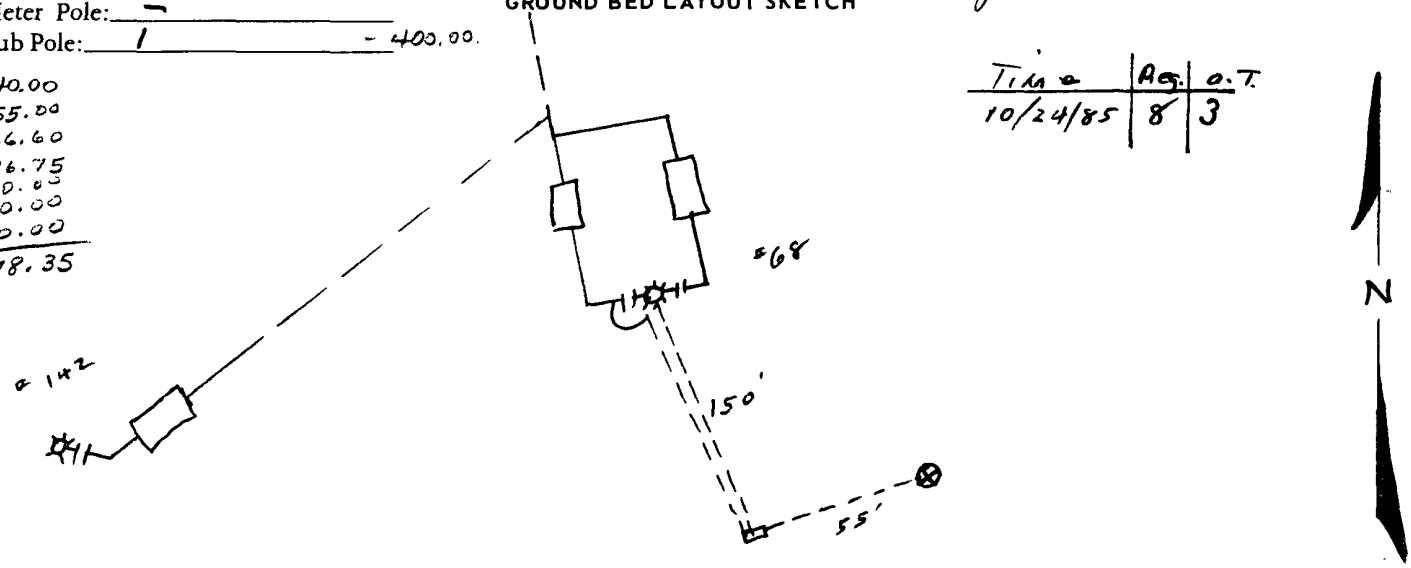
4740.00
- 555.00
66.60
276.75
1150.00
400.00
300.00
$6378.35

All Construction Completed

J E Stalls
(Signature)

Time	Ag.	O.T.
10/24/85	8	3

GROUND BED LAYOUT SKETCH



6494

EL PASO NATURAL GAS COMPANY

CONSTRUCTION LOGGING READINGS

CPS #: 1802 W WELL NAME: SJ 27-5 #68 #142 LOCATION: NE 33-27-5 DATE: 10/24/85

TOTAL VOLTS: 11.8 TOTAL AMPS: 19.2 OHMS RESISTANCE: .61

DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE No.	DEEP	LOG ANODE	ANODE No.	ANODE READINGS NO.	DEPTH	NO COKE	WITH COKE

EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSES

ANALYSIS NO.: 1-11802
OPERATOR: MERIDIAN OIL
LOCATION: NE 33-27-5
FIELD: GOBERNADOR
SAMPLED FROM: GROUND BED @ 70'
DATE SAMPLED: OCTOBER 24, 1985
TUBING PRESSURE:
SURFACE CASING PRESSURE:

DATE: NOVEMBER 22, 1985
WELL NAME: SJ 27-5 #68 CPS #1802W
COUNTY RIO ARRIBA STATE: NM
FORMATION: SURFACE

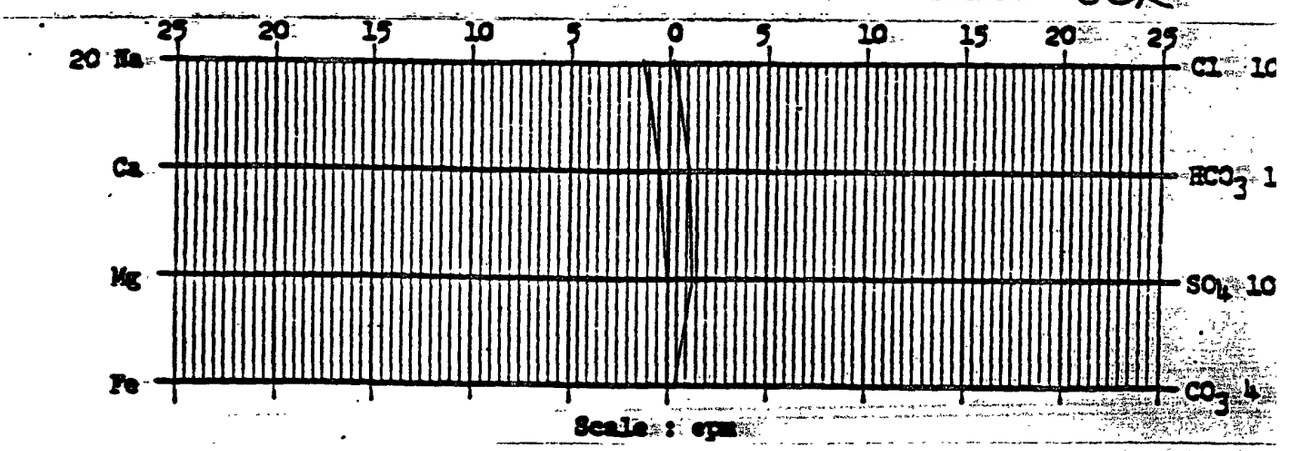
SECURED BY: JOE STOTTS
CASING PRESSURE:

	SAMPLE SIZE	ml. TIT	AS CaCO3	AS ION	epm
TOTAL ALKALINITY	50	31	620		
P ALKALINITY	50	2	40		
BICARBONATE	50	27	540	659	10.80
CARBONATE	50	4	80	48	1.60
CHLORIDE	50	1.4		28	0.79
SULFATE				617	12.83
TOTAL HARDNESS	50	1.1	22		
CALCIUM	50	1.1	22	9	0.44
MAGNESIUM	50	0	0	0	0.00
IRON				ABSENT	
SODIUM (CALCULATED)				588	25.59
H2S				ABSENT	
HYDROCARBONS				ABSENT	
TOTAL DISSOLVED SOLIDS				1602	
pH				8.9	
SPECIFIC GRAVITY			NT AT 60F		
RESISTIVITY			417 OHM-CM AT		
CONDUCTIVITY			2400 MICROMHOS @ 25C.		

ALL RESULTS EXPRESSED IN PARTS PER MILLION-TRACE IS LESS THAN 0.1 ppm

cc: R. A. ULLRICH
J. D. EVANS
D. C. ADAMS
W. F. LORETT
J. L. WILLIAMS
G. C. KARDOS
FILE

SANDRA ARAGON
CHEMIST GCK



Form 22-2 (Rev 5-79)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

C.P.S 1802-W

LEASE SJ 27-5 SJ 27-5 WELL NO. #68 #142 CONTRACTOR RIG NO. REPORT NO. DATE 10/24/85 19

MORNING

Driller Tim C RIFFEL Total Men In Crew 6

FROM	TO	FORMATION	WT-BIT	R.P.M.

NO. DC ____ SIZE ____ LENG. ____

BIT NO.

NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

0-60 SANDY BROWN SHALE
60-80 WATER SAND (E WATER))
80-280 BLUE SHALE
280-320 SANDY BLUE SHALE

DRILLED 320 FT

T.D 315

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

NO. DC ____ SIZE ____ LENG. ____

BIT NO.

NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

NO. DC ____ SIZE ____ LENG. ____

BIT NO.

NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Tim C Riffel Company Supervisor

File Number: RG 81026

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Bureau of Land Management Work Phone: 505-599-6320
Contact: Dale Wirth Home Phone: _____
Address: Farmington Field Office
1235 La Plata Highway
City: Farmington State: NM Zip: 87401

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 SE 1/4 SE 1/4 Section: 27 Township: 27N Range: 5W N.M.P.M.
in Rio Arriba County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Bureau of Land Management

3. DRILLING CONTRACTOR

License Number: WD 1254
Name: Sunbelt Drilling Work Phone: 505-321-4510
Agent: Rod Beeman Home Phone: _____
Mailing Address: 1011 E. Palm Way
City: Gold Canyon State: AZ Zip: 85218

2003 OCT 27 PM 2:12

4. DRILLING RECORD

Drilling began: 9-12-03 ; Completed: 9-16-03 ; Type tools: _____ ;
Size of hole: 9 7/8 in.; Total depth of well: 460 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: 186 ft.

File Number: RG 81026 Trn Number: 283266
Form: wr-20 page 1 of 4

Montoya
2nd well

File Number: RG 81026

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)
180	195	15	gray sandstone	1/4 gpm
430	460	30	gray sandstone	2-3 gpm

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
10"	34		-1	19	20			
5"	SDR17		0	452	452		412	452

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
0	19	15"	6	10	Pour/FreeFall Surface

8. PLUGGING RECORD

Plugging Contractor: _____
Address: _____
Plugging Method: _____
Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1			
2			
3			
4			
5			

File Number: RG 81026 Trn Number: 283266
Form: wr-20 page 2 of 4

Montoya
2nd well

File Number: RG 81026

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered
0	3	3	Top soil
3	80	77	Clay + Shale
80	110	30	Yellow Sandstone
110	140	30	Shale + mudstone
140	320	180	Gray sandstone w/ layer of Shale + Clay
320	380	60	Gray Shalestone
380	460	80	Gray sandstone w/ Layers of Shale

File Number: RG 81026 Trn Number: 283266
Form: wr-20 page 3 of 4

Montoya
2nd well

File Number: RG 81026

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

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

Rod Beeman — Driller

9/25/03 — (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad ____; FWL ____; FSL ____; Use _____; Location No. _____

File Number: RG 81026 Trn Number: 283216
Form: wr-20 page 4 of 4

Montoya
2nd well

John R. D Antonio, Jr., P.E.
State Engineer

Santa Fe Office
PO BOX 25102
SANTA FE, NM 87504-5102

STATE OF NEW MEXICO
STATE ENGINEER OFFICE

Trn Nbr: 283266
File Nbr: RG 81026
Well File Nbr: RG 81026

Oct. 02, 2003

DALE WIRTH
BUREAU OF LAND MANAGEMENT
1235 LA PLATA HIGHWAY
FARMINGTON, NM 87401

Greetings:

Enclosed is your copy of the well record for the above numbered permit, which has been accepted for filing.

Sincerely,

Daylene Martinez

Daylene Martinez
(505)827-6120

Enclosure
cc: Albuquerque Office

wellrrcv

ENSOLUM

APPENDIX B

Agency Correspondence

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 425077
Date: Monday, January 27, 2025 2:44:05 PM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2502675060.

The sampling event is expected to take place:

When: 01/31/2025 @ 09:00
Where: F-33-27N-05W 1560 FNL 1520 FWL (36.533886,-107.3677902)

Additional Information: Contact PM- Wes Weichert (816) 266-8732

Additional Instructions: San Juan 27-5 Unit 35 A (36.534311, -107.367800). Hand auger delineation hand sampling. Number of samples is estimated.

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

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

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

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

ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
Hilcorp Energy Company
San Juan 27-5 Unit 35A
Rio Arriba County, New Mexico

Photograph: 1 Date: 1/31/2025
Description: Soil staining in release footprint
View: Northwest

Photograph: 2 Date: 1/31/2025
Description: Advancing hand auger boring HA02
View: Northeast

Photograph: 3 Date: 6/26/2025
Description: Depth to water greater than 50 feet
View: N/A

Photograph: 4 Date: 6/26/2025
Description: Collecting sample SS06
View: Southwest

ENSOLUM

APPENDIX D

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/12/2025 1:08:57 PM

JOB DESCRIPTION

San Juan 27-5 Un 35A

JOB NUMBER

885-19168-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
2/12/2025 1:08:57 PM

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

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Laboratory Job ID: 885-19168-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-19168-1
Project/Site: San Juan 27-5 Un 35A

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

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

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Job ID: 885-19168-1 Eurofins Albuquerque

Job Narrative
885-19168-1

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

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

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

Receipt
The samples were received on 2/1/2025 7:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°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
Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-20298 and analytical batch 885-20239 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA01@7'

Date Collected: 01/31/25 12:00
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	460		24		mg/Kg		02/04/25 09:52	02/06/25 20:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*175*	*S1+*	*35 - 166*	*02/04/25 09:52*	*02/06/25 20:11*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20		0.12		mg/Kg		02/04/25 09:52	02/06/25 01:45	5
Ethylbenzene	2.4		0.24		mg/Kg		02/04/25 09:52	02/06/25 01:45	5
Toluene	7.0		0.24		mg/Kg		02/04/25 09:52	02/06/25 01:45	5
Xylenes, Total	22		0.48		mg/Kg		02/04/25 09:52	02/06/25 01:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*02/04/25 09:52*	*02/06/25 01:45*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110	F1	9.6		mg/Kg		02/04/25 14:09	02/04/25 19:03	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/04/25 14:09	02/04/25 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*02/04/25 14:09*	*02/04/25 19:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/04/25 11:56	02/04/25 15:32	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA01@10'

Date Collected: 01/31/25 12:06
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**13**		4.8		mg/Kg		02/04/25 09:52	02/07/25 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*35 - 166*	*02/04/25 09:52*	*02/07/25 15:31*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/04/25 09:52	02/06/25 02:09	1
Ethylbenzene	**0.074**		0.048		mg/Kg		02/04/25 09:52	02/06/25 02:09	1
Toluene	**0.21**		0.048		mg/Kg		02/04/25 09:52	02/06/25 02:09	1
Xylenes, Total	**0.78**		0.097		mg/Kg		02/04/25 09:52	02/06/25 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*02/04/25 09:52*	*02/06/25 02:09*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**		9.5		mg/Kg		02/04/25 14:09	02/04/25 19:36	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		02/04/25 14:09	02/04/25 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*02/04/25 14:09*	*02/04/25 19:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/04/25 11:56	02/04/25 16:03	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA02@4'

Date Collected: 01/31/25 12:45
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		02/04/25 09:52	02/06/25 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*02/04/25 09:52*	*02/06/25 20:54*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/04/25 09:52	02/06/25 02:32	1
Ethylbenzene	ND		0.048		mg/Kg		02/04/25 09:52	02/06/25 02:32	1
Toluene	ND		0.048		mg/Kg		02/04/25 09:52	02/06/25 02:32	1
Xylenes, Total	ND		0.096		mg/Kg		02/04/25 09:52	02/06/25 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/04/25 09:52*	*02/06/25 02:32*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		02/04/25 14:09	02/04/25 19:47	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		02/04/25 14:09	02/04/25 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*02/04/25 14:09*	*02/04/25 19:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/04/25 11:56	02/04/25 16:13	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA02@10'

Date Collected: 01/31/25 12:59
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		02/04/25 09:52	02/06/25 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*02/04/25 09:52*	*02/06/25 21:16*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/04/25 09:52	02/06/25 02:56	1
Ethylbenzene	ND		0.046		mg/Kg		02/04/25 09:52	02/06/25 02:56	1
Toluene	ND		0.046		mg/Kg		02/04/25 09:52	02/06/25 02:56	1
Xylenes, Total	ND		0.093		mg/Kg		02/04/25 09:52	02/06/25 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*02/04/25 09:52*	*02/06/25 02:56*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		02/04/25 14:09	02/04/25 19:58	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		02/04/25 14:09	02/04/25 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*02/04/25 14:09*	*02/04/25 19:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/04/25 11:56	02/04/25 16:24	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA03@6'

Date Collected: 01/31/25 13:28
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		02/04/25 09:52	02/06/25 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*02/04/25 09:52*	*02/06/25 21:38*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/04/25 09:52	02/06/25 03:19	1
Ethylbenzene	ND		0.048		mg/Kg		02/04/25 09:52	02/06/25 03:19	1
Toluene	ND		0.048		mg/Kg		02/04/25 09:52	02/06/25 03:19	1
Xylenes, Total	ND		0.096		mg/Kg		02/04/25 09:52	02/06/25 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*02/04/25 09:52*	*02/06/25 03:19*	*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		02/04/25 14:09	02/04/25 20:09	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		02/04/25 14:09	02/04/25 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*02/04/25 14:09*	*02/04/25 20:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/04/25 11:56	02/04/25 16:34	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA03@10'

Date Collected: 01/31/25 13:38
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		02/04/25 09:52	02/06/25 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*02/04/25 09:52*	*02/06/25 22:00*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/04/25 09:52	02/06/25 03:43	1
Ethylbenzene	ND		0.046		mg/Kg		02/04/25 09:52	02/06/25 03:43	1
Toluene	ND		0.046		mg/Kg		02/04/25 09:52	02/06/25 03:43	1
Xylenes, Total	ND		0.093		mg/Kg		02/04/25 09:52	02/06/25 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*02/04/25 09:52*	*02/06/25 03:43*	*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		02/04/25 14:09	02/04/25 20:19	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		02/04/25 14:09	02/04/25 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*02/04/25 14:09*	*02/04/25 20:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/04/25 11:56	02/04/25 16:44	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA04@7'

Date Collected: 01/31/25 14:07
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		02/04/25 09:52	02/06/25 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*02/04/25 09:52*	*02/06/25 22:21*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/04/25 09:52	02/06/25 04:30	1
Ethylbenzene	ND		0.047		mg/Kg		02/04/25 09:52	02/06/25 04:30	1
Toluene	ND		0.047		mg/Kg		02/04/25 09:52	02/06/25 04:30	1
Xylenes, Total	ND		0.094		mg/Kg		02/04/25 09:52	02/06/25 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/04/25 09:52*	*02/06/25 04:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		02/04/25 14:09	02/04/25 20:41	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		02/04/25 14:09	02/04/25 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*02/04/25 14:09*	*02/04/25 20:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/04/25 11:56	02/04/25 17:15	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA04@10'

Date Collected: 01/31/25 14:14
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		02/04/25 09:52	02/06/25 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*02/04/25 09:52*	*02/06/25 22:43*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/04/25 09:52	02/06/25 04:53	1
Ethylbenzene	ND		0.047		mg/Kg		02/04/25 09:52	02/06/25 04:53	1
Toluene	ND		0.047		mg/Kg		02/04/25 09:52	02/06/25 04:53	1
Xylenes, Total	ND		0.095		mg/Kg		02/04/25 09:52	02/06/25 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*02/04/25 09:52*	*02/06/25 04:53*	*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		02/04/25 14:09	02/04/25 20:51	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		02/04/25 14:09	02/04/25 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*02/04/25 14:09*	*02/04/25 20:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/04/25 11:56	02/04/25 17:26	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA05@05'

Date Collected: 01/31/25 14:30
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		02/04/25 09:52	02/06/25 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*02/04/25 09:52*	*02/06/25 23:26*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/04/25 09:52	02/06/25 05:16	1
Ethylbenzene	ND		0.048		mg/Kg		02/04/25 09:52	02/06/25 05:16	1
Toluene	ND		0.048		mg/Kg		02/04/25 09:52	02/06/25 05:16	1
Xylenes, Total	ND		0.096		mg/Kg		02/04/25 09:52	02/06/25 05:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/04/25 09:52*	*02/06/25 05:16*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		02/04/25 14:09	02/04/25 21:02	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		02/04/25 14:09	02/04/25 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*02/04/25 14:09*	*02/04/25 21:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59		mg/Kg		02/04/25 11:56	02/04/25 17:36	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA05@10'

Date Collected: 01/31/25 14:47
Date Received: 02/01/25 07:40

Lab Sample ID: 885-19168-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		02/04/25 09:52	02/06/25 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*02/04/25 09:52*	*02/06/25 23:48*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/04/25 09:52	02/06/25 05:40	1
Ethylbenzene	ND		0.048		mg/Kg		02/04/25 09:52	02/06/25 05:40	1
Toluene	ND		0.048		mg/Kg		02/04/25 09:52	02/06/25 05:40	1
Xylenes, Total	ND		0.096		mg/Kg		02/04/25 09:52	02/06/25 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*02/04/25 09:52*	*02/06/25 05:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		02/04/25 14:09	02/04/25 21:13	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/04/25 14:09	02/04/25 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*02/04/25 14:09*	*02/04/25 21:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/04/25 11:56	02/04/25 17:46	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

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

Lab Sample ID: MB 885-20264/1-A
Matrix: Solid
Analysis Batch: 20452

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20264

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		02/04/25 09:52	02/06/25 16:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*02/04/25 09:52*	*02/06/25 16:13*	*1*

Lab Sample ID: LCS 885-20264/2-A
Matrix: Solid
Analysis Batch: 20452

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20264

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	25.5		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*194*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-20264/1-A
Matrix: Solid
Analysis Batch: 20394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20264

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/04/25 09:52	02/05/25 22:14	1
Ethylbenzene	ND		0.050		mg/Kg		02/04/25 09:52	02/05/25 22:14	1
Toluene	ND		0.050		mg/Kg		02/04/25 09:52	02/05/25 22:14	1
Xylenes, Total	ND		0.10		mg/Kg		02/04/25 09:52	02/05/25 22:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*02/04/25 09:52*	*02/05/25 22:14*	*1*

Lab Sample ID: LCS 885-20264/3-A
Matrix: Solid
Analysis Batch: 20394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20264

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.01		mg/Kg		101	70 - 130		
Ethylbenzene			1.00	0.994		mg/Kg		99	70 - 130		
m&p-Xylene			2.00	2.00		mg/Kg		100	70 - 130		
o-Xylene			1.00	0.982		mg/Kg		98	70 - 130		
Toluene			1.00	1.00		mg/Kg		100	70 - 130		
Xylenes, Total			3.00	2.99		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

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

Lab Sample ID: MB 885-20298/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20298

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/04/25 14:09	02/04/25 18:41	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/04/25 14:09	02/04/25 18:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*02/04/25 14:09*	*02/04/25 18:41*	*1*

Lab Sample ID: LCS 885-20298/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20298

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	50.3		mg/Kg		101	60 - 135		

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

Lab Sample ID: 885-19168-1 MS
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: HA01@7'
Prep Type: Total/NA
Prep Batch: 20298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	110	F1	46.9	107	F1	mg/Kg		-7	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*

Lab Sample ID: 885-19168-1 MSD
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: HA01@7'
Prep Type: Total/NA
Prep Batch: 20298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	110	F1	48.7	103	F1	mg/Kg		-13	44 - 136	3	32

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-20285/1-A
Matrix: Solid
Analysis Batch: 20268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20285

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		02/04/25 11:56	02/04/25 15:11	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-20285/2-A
Matrix: Solid
Analysis Batch: 20268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20285

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.9		mg/Kg		103	90 - 110		

Lab Sample ID: 885-19168-1 MS
Matrix: Solid
Analysis Batch: 20268

Client Sample ID: HA01@7'
Prep Type: Total/NA
Prep Batch: 20285

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

Lab Sample ID: 885-19168-1 MSD
Matrix: Solid
Analysis Batch: 20268

Client Sample ID: HA01@7'
Prep Type: Total/NA
Prep Batch: 20285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.0	ND		mg/Kg		NC	50 - 150	NC	20

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

GC VOA

Prep Batch: 20264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19168-1	HA01@7'	Total/NA	Solid	5030C	
885-19168-2	HA01@10'	Total/NA	Solid	5030C	
885-19168-3	HA02@4'	Total/NA	Solid	5030C	
885-19168-4	HA02@10'	Total/NA	Solid	5030C	
885-19168-5	HA03@6'	Total/NA	Solid	5030C	
885-19168-6	HA03@10'	Total/NA	Solid	5030C	
885-19168-7	HA04@7'	Total/NA	Solid	5030C	
885-19168-8	HA04@10'	Total/NA	Solid	5030C	
885-19168-9	HA05@05'	Total/NA	Solid	5030C	
885-19168-10	HA05@10'	Total/NA	Solid	5030C	
MB 885-20264/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-20264/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-20264/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 20394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19168-1	HA01@7'	Total/NA	Solid	8021B	20264
885-19168-2	HA01@10'	Total/NA	Solid	8021B	20264
885-19168-3	HA02@4'	Total/NA	Solid	8021B	20264
885-19168-4	HA02@10'	Total/NA	Solid	8021B	20264
885-19168-5	HA03@6'	Total/NA	Solid	8021B	20264
885-19168-6	HA03@10'	Total/NA	Solid	8021B	20264
885-19168-7	HA04@7'	Total/NA	Solid	8021B	20264
885-19168-8	HA04@10'	Total/NA	Solid	8021B	20264
885-19168-9	HA05@05'	Total/NA	Solid	8021B	20264
885-19168-10	HA05@10'	Total/NA	Solid	8021B	20264
MB 885-20264/1-A	Method Blank	Total/NA	Solid	8021B	20264
LCS 885-20264/3-A	Lab Control Sample	Total/NA	Solid	8021B	20264

Analysis Batch: 20452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19168-1	HA01@7'	Total/NA	Solid	8015M/D	20264
885-19168-3	HA02@4'	Total/NA	Solid	8015M/D	20264
885-19168-4	HA02@10'	Total/NA	Solid	8015M/D	20264
885-19168-5	HA03@6'	Total/NA	Solid	8015M/D	20264
885-19168-6	HA03@10'	Total/NA	Solid	8015M/D	20264
885-19168-7	HA04@7'	Total/NA	Solid	8015M/D	20264
885-19168-8	HA04@10'	Total/NA	Solid	8015M/D	20264
885-19168-9	HA05@05'	Total/NA	Solid	8015M/D	20264
885-19168-10	HA05@10'	Total/NA	Solid	8015M/D	20264
MB 885-20264/1-A	Method Blank	Total/NA	Solid	8015M/D	20264
LCS 885-20264/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	20264

Analysis Batch: 20526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19168-2	HA01@10'	Total/NA	Solid	8015M/D	20264

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

GC Semi VOA

Analysis Batch: 20239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19168-1	HA01@7'	Total/NA	Solid	8015M/D	20298
885-19168-2	HA01@10'	Total/NA	Solid	8015M/D	20298
885-19168-3	HA02@4'	Total/NA	Solid	8015M/D	20298
885-19168-4	HA02@10'	Total/NA	Solid	8015M/D	20298
885-19168-5	HA03@6'	Total/NA	Solid	8015M/D	20298
885-19168-6	HA03@10'	Total/NA	Solid	8015M/D	20298
885-19168-7	HA04@7'	Total/NA	Solid	8015M/D	20298
885-19168-8	HA04@10'	Total/NA	Solid	8015M/D	20298
885-19168-9	HA05@05'	Total/NA	Solid	8015M/D	20298
885-19168-10	HA05@10'	Total/NA	Solid	8015M/D	20298
MB 885-20298/1-A	Method Blank	Total/NA	Solid	8015M/D	20298
LCS 885-20298/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	20298
885-19168-1 MS	HA01@7'	Total/NA	Solid	8015M/D	20298
885-19168-1 MSD	HA01@7'	Total/NA	Solid	8015M/D	20298

Prep Batch: 20298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19168-1	HA01@7'	Total/NA	Solid	SHAKE	
885-19168-2	HA01@10'	Total/NA	Solid	SHAKE	
885-19168-3	HA02@4'	Total/NA	Solid	SHAKE	
885-19168-4	HA02@10'	Total/NA	Solid	SHAKE	
885-19168-5	HA03@6'	Total/NA	Solid	SHAKE	
885-19168-6	HA03@10'	Total/NA	Solid	SHAKE	
885-19168-7	HA04@7'	Total/NA	Solid	SHAKE	
885-19168-8	HA04@10'	Total/NA	Solid	SHAKE	
885-19168-9	HA05@05'	Total/NA	Solid	SHAKE	
885-19168-10	HA05@10'	Total/NA	Solid	SHAKE	
MB 885-20298/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-20298/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-19168-1 MS	HA01@7'	Total/NA	Solid	SHAKE	
885-19168-1 MSD	HA01@7'	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 20268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19168-1	HA01@7'	Total/NA	Solid	300.0	20285
885-19168-2	HA01@10'	Total/NA	Solid	300.0	20285
885-19168-3	HA02@4'	Total/NA	Solid	300.0	20285
885-19168-4	HA02@10'	Total/NA	Solid	300.0	20285
885-19168-5	HA03@6'	Total/NA	Solid	300.0	20285
885-19168-6	HA03@10'	Total/NA	Solid	300.0	20285
885-19168-7	HA04@7'	Total/NA	Solid	300.0	20285
885-19168-8	HA04@10'	Total/NA	Solid	300.0	20285
885-19168-9	HA05@05'	Total/NA	Solid	300.0	20285
885-19168-10	HA05@10'	Total/NA	Solid	300.0	20285
MB 885-20285/1-A	Method Blank	Total/NA	Solid	300.0	20285
LCS 885-20285/2-A	Lab Control Sample	Total/NA	Solid	300.0	20285
885-19168-1 MS	HA01@7'	Total/NA	Solid	300.0	20285
885-19168-1 MSD	HA01@7'	Total/NA	Solid	300.0	20285

QC Association Summary

Client: Hilcorp Energy
Job ID: 885-19168-1
Project/Site: San Juan 27-5 Un 35A

HPLC/IC

Prep Batch: 20285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19168-1	HA01@7'	Total/NA	Solid	300_Prep	
885-19168-2	HA01@10'	Total/NA	Solid	300_Prep	
885-19168-3	HA02@4'	Total/NA	Solid	300_Prep	
885-19168-4	HA02@10'	Total/NA	Solid	300_Prep	
885-19168-5	HA03@6'	Total/NA	Solid	300_Prep	
885-19168-6	HA03@10'	Total/NA	Solid	300_Prep	
885-19168-7	HA04@7'	Total/NA	Solid	300_Prep	
885-19168-8	HA04@10'	Total/NA	Solid	300_Prep	
885-19168-9	HA05@05'	Total/NA	Solid	300_Prep	
885-19168-10	HA05@10'	Total/NA	Solid	300_Prep	
MB 885-20285/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-20285/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-19168-1 MS	HA01@7'	Total/NA	Solid	300_Prep	
885-19168-1 MSD	HA01@7'	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA01@7'

Lab Sample ID: 885-19168-1
Matrix: Solid
Date Collected: 01/31/25 12:00
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		5	20452	AT	EET ALB	02/06/25 20:11
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		5	20394	JP	EET ALB	02/06/25 01:45
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 19:03
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 15:32

Client Sample ID: HA01@10'

Lab Sample ID: 885-19168-2
Matrix: Solid
Date Collected: 01/31/25 12:06
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		1	20526	AT	EET ALB	02/07/25 15:31
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		1	20394	JP	EET ALB	02/06/25 02:09
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 19:36
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 16:03

Client Sample ID: HA02@4'

Lab Sample ID: 885-19168-3
Matrix: Solid
Date Collected: 01/31/25 12:45
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		1	20452	AT	EET ALB	02/06/25 20:54
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		1	20394	JP	EET ALB	02/06/25 02:32
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 19:47
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 16:13

Client Sample ID: HA02@10'

Lab Sample ID: 885-19168-4
Matrix: Solid
Date Collected: 01/31/25 12:59
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		1	20452	AT	EET ALB	02/06/25 21:16

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Client Sample ID: HA02@10'

Lab Sample ID: 885-19168-4
Matrix: Solid
Date Collected: 01/31/25 12:59
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		1	20394	JP	EET ALB	02/06/25 02:56
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 19:58
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 16:24

Client Sample ID: HA03@6'

Lab Sample ID: 885-19168-5
Matrix: Solid
Date Collected: 01/31/25 13:28
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		1	20452	AT	EET ALB	02/06/25 21:38
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		1	20394	JP	EET ALB	02/06/25 03:19
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 20:09
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 16:34

Client Sample ID: HA03@10'

Lab Sample ID: 885-19168-6
Matrix: Solid
Date Collected: 01/31/25 13:38
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		1	20452	AT	EET ALB	02/06/25 22:00
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		1	20394	JP	EET ALB	02/06/25 03:43
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 20:19
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 16:44

Client Sample ID: HA04@7'

Lab Sample ID: 885-19168-7
Matrix: Solid
Date Collected: 01/31/25 14:07
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		1	20452	AT	EET ALB	02/06/25 22:21
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		1	20394	JP	EET ALB	02/06/25 04:30

Lab Chronicle

Client: Hilcorp Energy
Job ID: 885-19168-1
Project/Site: San Juan 27-5 Un 35A

Client Sample ID: HA04@7'
Lab Sample ID: 885-19168-7
Date Collected: 01/31/25 14:07
Matrix: Solid
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 20:41
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 17:15

Client Sample ID: HA04@10'
Lab Sample ID: 885-19168-8
Date Collected: 01/31/25 14:14
Matrix: Solid
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		1	20452	AT	EET ALB	02/06/25 22:43
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		1	20394	JP	EET ALB	02/06/25 04:53
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 20:51
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 17:26

Client Sample ID: HA05@05'
Lab Sample ID: 885-19168-9
Date Collected: 01/31/25 14:30
Matrix: Solid
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		1	20452	AT	EET ALB	02/06/25 23:26
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		1	20394	JP	EET ALB	02/06/25 05:16
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 21:02
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 17:36

Client Sample ID: HA05@10'
Lab Sample ID: 885-19168-10
Date Collected: 01/31/25 14:47
Matrix: Solid
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		1	20452	AT	EET ALB	02/06/25 23:48
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		1	20394	JP	EET ALB	02/06/25 05:40
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 21:13

Lab Chronicle

Client: Hilcorp Energy
Job ID: 885-19168-1
Project/Site: San Juan 27-5 Un 35A

Client Sample ID: HA05@10'
Lab Sample ID: 885-19168-10

Date Collected: 01/31/25 14:47
Matrix: Solid
Date Received: 02/01/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 17:46

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-19168-1

Laboratory: Eurofins Albuquerque

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

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

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

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

Oregon	NELAP	NM100001	02-25-25

Chain-of-Custody Record

Client: Hilcorp

attn: Kate Kaufman

Mailing Address:

Phone #:

email or Fax#: kkaufman@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush

Project Name: San Juan 27-5 Un 35A

Project #:

Project Manager: Wes Weichert

wweichert@ensolum.com

Sampler: Zach Myers

On Ice: ☑ Yes ☐ No 4oqi

# of Coolers: 1

Cooler Temp(including CF): 1.0 +0.1 = 1.1 (°C)

HALL ENVIRONMI
ANALYSIS LABOR

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 8710[illegible]

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

885-19168 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
1-31	1200	soil	HA01@7'	1×4oz jar	cool		X	X					X			
	1206		HA01@10'													
	1245		HA02@4'													
	1259		HA02@10'													
	1328		HA03@6'													
	1338		HA03@10'													
	1407		HA04@7'													
	1414		HA04@10'													
	1430		HA05@5'													
↓	1447	↓	HA05@10'	↓			↓	↓					↓			

Date	Time	Relinquished by:	Received by	Via	Date	Time
1/31/25	1630	Zach Myers	[illegible]		1/31/25	1630
1/31/25	1702	[illegible]	[illegible]	courier	2/1/25	7:40

Remarks:

cc: shyde@ensolum.com
Zmyers@ensolum.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-19168-1

Login Number: 19168 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/3/2025 10:58:56 AM

JOB DESCRIPTION

San Juan 27-5 Un 35A

JOB NUMBER

885-27677-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Laboratory Job ID: 885-27677-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Job ID: 885-27677-1
Project/Site: San Juan 27-5 Un 35A

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: San Juan 27-5 Un 35A

Job ID: 885-27677-1

Job ID: 885-27677-1 Eurofins Albuquerque

Job Narrative
885-27677-1

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

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

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

Receipt
The samples were received on 6/27/2025 6:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

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

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

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

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-27677-1

Client Sample ID: SS02@0-6"
Date Collected: 06/26/25 09:52
Date Received: 06/27/25 06:45

Lab Sample ID: 885-27677-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		06/27/25 12:18	06/30/25 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 150*	*06/27/25 12:18*	*06/30/25 20:06*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/27/25 12:18	06/30/25 20:06	1
Ethylbenzene	ND		0.050		mg/Kg		06/27/25 12:18	06/30/25 20:06	1
Toluene	ND		0.050		mg/Kg		06/27/25 12:18	06/30/25 20:06	1
Xylenes, Total	ND		0.10		mg/Kg		06/27/25 12:18	06/30/25 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 150*	*06/27/25 12:18*	*06/30/25 20:06*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		06/30/25 16:47	07/02/25 21:26	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		06/30/25 16:47	07/02/25 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*06/30/25 16:47*	*07/02/25 21:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/27/25 15:19	06/28/25 00:39	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-27677-1

Client Sample ID: SS03@0-6"

Date Collected: 06/26/25 09:55
Date Received: 06/27/25 06:45

Lab Sample ID: 885-27677-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		06/27/25 12:18	06/30/25 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 150*	*06/27/25 12:18*	*06/30/25 21:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		06/27/25 12:18	06/30/25 21:12	1
Ethylbenzene	ND		0.047		mg/Kg		06/27/25 12:18	06/30/25 21:12	1
Toluene	ND		0.047		mg/Kg		06/27/25 12:18	06/30/25 21:12	1
Xylenes, Total	ND		0.094		mg/Kg		06/27/25 12:18	06/30/25 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*15 - 150*	*06/27/25 12:18*	*06/30/25 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		9.2		mg/Kg		06/30/25 16:47	07/02/25 22:16	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		06/30/25 16:47	07/02/25 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*06/30/25 16:47*	*07/02/25 22:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/27/25 15:19	06/28/25 00:53	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-27677-1

Client Sample ID: SS04@0-6"

Date Collected: 06/26/25 09:59
Date Received: 06/27/25 06:45

Lab Sample ID: 885-27677-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		06/27/25 12:22	06/30/25 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 150*	*06/27/25 12:22*	*06/30/25 21:34*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		06/27/25 12:22	06/30/25 21:34	1
Ethylbenzene	ND		0.046		mg/Kg		06/27/25 12:22	06/30/25 21:34	1
Toluene	ND		0.046		mg/Kg		06/27/25 12:22	06/30/25 21:34	1
Xylenes, Total	ND		0.093		mg/Kg		06/27/25 12:22	06/30/25 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*15 - 150*	*06/27/25 12:22*	*06/30/25 21:34*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		06/30/25 16:47	07/02/25 22:28	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		06/30/25 16:47	07/02/25 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*06/30/25 16:47*	*07/02/25 22:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/27/25 15:19	06/28/25 01:07	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-27677-1

Client Sample ID: SS05@0-6"

Date Collected: 06/26/25 10:04
Date Received: 06/27/25 06:45

Lab Sample ID: 885-27677-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		06/27/25 12:22	06/30/25 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*15 - 150*	*06/27/25 12:22*	*06/30/25 21:55*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		06/27/25 12:22	06/30/25 21:55	1
Ethylbenzene	ND		0.046		mg/Kg		06/27/25 12:22	06/30/25 21:55	1
Toluene	ND		0.046		mg/Kg		06/27/25 12:22	06/30/25 21:55	1
Xylenes, Total	ND		0.093		mg/Kg		06/27/25 12:22	06/30/25 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*15 - 150*	*06/27/25 12:22*	*06/30/25 21:55*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		06/30/25 16:47	07/02/25 22:41	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		06/30/25 16:47	07/02/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*06/30/25 16:47*	*07/02/25 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		06/27/25 15:19	06/28/25 01:20	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-27677-1

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

Lab Sample ID: MB 885-29178/1-A
Matrix: Solid
Analysis Batch: 29305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29178

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		06/27/25 12:18	06/30/25 16:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 150*	*06/27/25 12:18*	*06/30/25 16:30*	*1*

Lab Sample ID: LCS 885-29178/2-A
Matrix: Solid
Analysis Batch: 29305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29178

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	30.3		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*		*15 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-29178/1-A
Matrix: Solid
Analysis Batch: 29304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29178

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/27/25 12:18	06/30/25 16:30	1
Ethylbenzene	ND		0.050		mg/Kg		06/27/25 12:18	06/30/25 16:30	1
Toluene	ND		0.050		mg/Kg		06/27/25 12:18	06/30/25 16:30	1
Xylenes, Total	ND		0.10		mg/Kg		06/27/25 12:18	06/30/25 16:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*15 - 150*	*06/27/25 12:18*	*06/30/25 16:30*	*1*

Lab Sample ID: LCS 885-29178/16-A
Matrix: Solid
Analysis Batch: 29304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29178

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.812		mg/Kg		81	70 - 130		
Ethylbenzene			1.00	0.848		mg/Kg		85	70 - 130		
m&p-Xylene			2.00	1.69		mg/Kg		85	70 - 130		
o-Xylene			1.00	0.850		mg/Kg		85	70 - 130		
Toluene			1.00	0.814		mg/Kg		81	70 - 130		
Xylenes, Total			3.00	2.54		mg/Kg		85	70 - 130		

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

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-27677-1

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

Lab Sample ID: 885-27677-1 MS
Matrix: Solid
Analysis Batch: 29304

Client Sample ID: SS02@0-6"
Prep Type: Total/NA
Prep Batch: 29178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.997	0.819		mg/Kg		82	70 - 130
Ethylbenzene	ND		0.997	0.899		mg/Kg		90	70 - 130
m&p-Xylene	ND		1.99	1.79		mg/Kg		90	70 - 130
o-Xylene	ND		0.997	0.900		mg/Kg		90	70 - 130
Toluene	ND		0.997	0.838		mg/Kg		84	70 - 130
Xylenes, Total	ND		2.99	2.69		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*15 - 150*

Lab Sample ID: 885-27677-1 MSD
Matrix: Solid
Analysis Batch: 29304

Client Sample ID: SS02@0-6"
Prep Type: Total/NA
Prep Batch: 29178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.996	0.810		mg/Kg		81	70 - 130	1	20
Ethylbenzene	ND		0.996	0.914		mg/Kg		92	70 - 130	2	20
m&p-Xylene	ND		1.99	1.86		mg/Kg		94	70 - 130	4	20
o-Xylene	ND		0.996	0.924		mg/Kg		93	70 - 130	3	20
Toluene	ND		0.996	0.859		mg/Kg		86	70 - 130	3	20
Xylenes, Total	ND		2.99	2.79		mg/Kg		93	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*15 - 150*

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

Lab Sample ID: MB 885-29313/1-A
Matrix: Solid
Analysis Batch: 29432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29313

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		06/30/25 16:47	07/02/25 21:01	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		06/30/25 16:47	07/02/25 21:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*06/30/25 16:47*	*07/02/25 21:01*	*1*

Lab Sample ID: LCS 885-29313/2-A
Matrix: Solid
Analysis Batch: 29432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29313

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	38.5		mg/Kg		77	51 - 148

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*

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QC Sample Results

Client: Hilcorp Energy
Job ID: 885-27677-1
Project/Site: San Juan 27-5 Un 35A

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29198/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 29179
Prep Batch: 29198

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		06/27/25 15:19	06/27/25 19:53	1

Lab Sample ID: LCS 885-29198/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 29179
Prep Batch: 29198

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	15.0		mg/Kg		100	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-27677-1

GC VOA

Prep Batch: 29178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27677-1	SS02@0-6"	Total/NA	Solid	5030C	
885-27677-2	SS03@0-6"	Total/NA	Solid	5030C	
885-27677-3	SS04@0-6"	Total/NA	Solid	5030C	
885-27677-4	SS05@0-6"	Total/NA	Solid	5030C	
MB 885-29178/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-29178/16-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-29178/2-A	Lab Control Sample	Total/NA	Solid	5030C	
885-27677-1 MS	SS02@0-6"	Total/NA	Solid	5030C	
885-27677-1 MSD	SS02@0-6"	Total/NA	Solid	5030C	

Analysis Batch: 29304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27677-1	SS02@0-6"	Total/NA	Solid	8021B	29178
885-27677-2	SS03@0-6"	Total/NA	Solid	8021B	29178
885-27677-3	SS04@0-6"	Total/NA	Solid	8021B	29178
885-27677-4	SS05@0-6"	Total/NA	Solid	8021B	29178
MB 885-29178/1-A	Method Blank	Total/NA	Solid	8021B	29178
LCS 885-29178/16-A	Lab Control Sample	Total/NA	Solid	8021B	29178
885-27677-1 MS	SS02@0-6"	Total/NA	Solid	8021B	29178
885-27677-1 MSD	SS02@0-6"	Total/NA	Solid	8021B	29178

Analysis Batch: 29305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27677-1	SS02@0-6"	Total/NA	Solid	8015M/D	29178
885-27677-2	SS03@0-6"	Total/NA	Solid	8015M/D	29178
885-27677-3	SS04@0-6"	Total/NA	Solid	8015M/D	29178
885-27677-4	SS05@0-6"	Total/NA	Solid	8015M/D	29178
MB 885-29178/1-A	Method Blank	Total/NA	Solid	8015M/D	29178
LCS 885-29178/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29178

GC Semi VOA

Prep Batch: 29313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27677-1	SS02@0-6"	Total/NA	Solid	SHAKE	
885-27677-2	SS03@0-6"	Total/NA	Solid	SHAKE	
885-27677-3	SS04@0-6"	Total/NA	Solid	SHAKE	
885-27677-4	SS05@0-6"	Total/NA	Solid	SHAKE	
MB 885-29313/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29313/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 29432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27677-1	SS02@0-6"	Total/NA	Solid	8015M/D	29313
885-27677-2	SS03@0-6"	Total/NA	Solid	8015M/D	29313
885-27677-3	SS04@0-6"	Total/NA	Solid	8015M/D	29313
885-27677-4	SS05@0-6"	Total/NA	Solid	8015M/D	29313
MB 885-29313/1-A	Method Blank	Total/NA	Solid	8015M/D	29313
LCS 885-29313/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29313

QC Association Summary

Client: Hilcorp Energy
Job ID: 885-27677-1
Project/Site: San Juan 27-5 Un 35A

HPLC/IC

Analysis Batch: 29179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27677-1	SS02@0-6"	Total/NA	Solid	300.0	29198
885-27677-2	SS03@0-6"	Total/NA	Solid	300.0	29198
885-27677-3	SS04@0-6"	Total/NA	Solid	300.0	29198
885-27677-4	SS05@0-6"	Total/NA	Solid	300.0	29198
MB 885-29198/1-A	Method Blank	Total/NA	Solid	300.0	29198
LCS 885-29198/2-A	Lab Control Sample	Total/NA	Solid	300.0	29198

Prep Batch: 29198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27677-1	SS02@0-6"	Total/NA	Solid	300_Prep	
885-27677-2	SS03@0-6"	Total/NA	Solid	300_Prep	
885-27677-3	SS04@0-6"	Total/NA	Solid	300_Prep	
885-27677-4	SS05@0-6"	Total/NA	Solid	300_Prep	
MB 885-29198/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29198/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 27-5 Un 35A

Job ID: 885-27677-1

Client Sample ID: SS02@0-6"

Lab Sample ID: 885-27677-1
Matrix: Solid
Date Collected: 06/26/25 09:52
Date Received: 06/27/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29178	AT	EET ALB	06/27/25 12:18
Total/NA	Analysis	8015M/D		1	29305	AT	EET ALB	06/30/25 20:06
Total/NA	Prep	5030C			29178	AT	EET ALB	06/27/25 12:18
Total/NA	Analysis	8021B		1	29304	AT	EET ALB	06/30/25 20:06
Total/NA	Prep	SHAKE			29313	DR	EET ALB	06/30/25 16:47
Total/NA	Analysis	8015M/D		1	29432	EM	EET ALB	07/02/25 21:26
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/28/25 00:39

Client Sample ID: SS03@0-6"

Lab Sample ID: 885-27677-2
Matrix: Solid
Date Collected: 06/26/25 09:55
Date Received: 06/27/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29178	AT	EET ALB	06/27/25 12:18
Total/NA	Analysis	8015M/D		1	29305	AT	EET ALB	06/30/25 21:12
Total/NA	Prep	5030C			29178	AT	EET ALB	06/27/25 12:18
Total/NA	Analysis	8021B		1	29304	AT	EET ALB	06/30/25 21:12
Total/NA	Prep	SHAKE			29313	DR	EET ALB	06/30/25 16:47
Total/NA	Analysis	8015M/D		1	29432	EM	EET ALB	07/02/25 22:16
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/28/25 00:53

Client Sample ID: SS04@0-6"

Lab Sample ID: 885-27677-3
Matrix: Solid
Date Collected: 06/26/25 09:59
Date Received: 06/27/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29178	AT	EET ALB	06/27/25 12:22
Total/NA	Analysis	8015M/D		1	29305	AT	EET ALB	06/30/25 21:34
Total/NA	Prep	5030C			29178	AT	EET ALB	06/27/25 12:22
Total/NA	Analysis	8021B		1	29304	AT	EET ALB	06/30/25 21:34
Total/NA	Prep	SHAKE			29313	DR	EET ALB	06/30/25 16:47
Total/NA	Analysis	8015M/D		1	29432	EM	EET ALB	07/02/25 22:28
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/28/25 01:07

Client Sample ID: SS05@0-6"

Lab Sample ID: 885-27677-4
Matrix: Solid
Date Collected: 06/26/25 10:04
Date Received: 06/27/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29178	AT	EET ALB	06/27/25 12:22
Total/NA	Analysis	8015M/D		1	29305	AT	EET ALB	06/30/25 21:55

Lab Chronicle

Client: Hilcorp Energy
Job ID: 885-27677-1
Project/Site: San Juan 27-5 Un 35A

Client Sample ID: SS05@0-6"
Lab Sample ID: 885-27677-4

Date Collected: 06/26/25 10:04
Matrix: Solid
Date Received: 06/27/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29178	AT	EET ALB	06/27/25 12:22
Total/NA	Analysis	8021B		1	29304	AT	EET ALB	06/30/25 21:55
Total/NA	Prep	SHAKE			29313	DR	EET ALB	06/30/25 16:47
Total/NA	Analysis	8015M/D		1	29432	EM	EET ALB	07/02/25 22:41
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/28/25 01:20

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Job ID: 885-27677-1
Project/Site: San Juan 27-5 Un 35A

Laboratory: Eurofins Albuquerque

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

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

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

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

Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Hilcorp

attn: Kate Kaufman

Mailing Address:

Phone #:

email or Fax#: kkaufman@hilcorp.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: San Juan 27-5 Un 35A

Project #:

Project Manager: Stuart Hyde
shyde@ensolum.com

Sampler: Zach Myers

On Ice: ☑ Yes ☐ No mgs

# of Coolers: 1

Cooler Temp (including CF): 2.1 +0.2 = 2.3 (°C)

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

885-27677 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6-26	952	soil	SS02@0-6"	4oz jar	cool		X	X					X			
	955		SS03@0-6"				X	X					X			
	959		SS04@0-6"				X	X					X			
↓	1004	↓	SS05@0-6"	↓	↓		X	X					X			

Date	Time	Relinquished by	Received by:	Via:	Date	Time
6/26/25	1215	Zach Myers	Chris Walters		6/26/25	1215
6/26/25	1730	Chris Walters		courier	6/27/25	6:45

Remarks:
cc: zmyers@ensolum.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-27677-1

Login Number: 27677 **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	

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

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 488035
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2502675060**
Incident Name	**NAPP2502675060 SAN JUAN 27-5 UNIT 35A @ 30-039-22358**
Incident Type	**Oil Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-039-22358] SAN JUAN 27 5 UNIT #035A**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	San Juan 27-5 Unit 35A
Date Release Discovered	01/25/2025
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion | Production Tank | Condensate | Released: 29 BBL | Recovered: 0 BBL | Lost: 29 BBL.
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 488035
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/23/2025

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 488035
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	570
GRO+DRO (EPA SW-846 Method 8015M)	570
BTEX (EPA SW-846 Method 8021B or 8260B)	31.6
Benzene (EPA SW-846 Method 8021B or 8260B)	0.2
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/31/2025
On what date will (or did) the final sampling or liner inspection occur	06/26/2025
On what date will (or was) the remediation complete(d)	06/26/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 488035
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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.)	*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)	Yes
Other Non-listed Remedial Process. Please specify	Remediation not required
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/23/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 488035
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 488035
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**425077**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/31/2025**
What was the (estimated) number of samples that were to be gathered	**10**
What was the sampling surface area in square feet	**2000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/23/2025

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 488035
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

OCD Permitting

An Unexpected Error Has Occurred

Please restart your browser and try to complete this action again. If you continue to experience this issue please contact an OCD representative.

Thank you.