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March 12, 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: 2024 Additional Delineation and Annual Groundwater Monitoring Report
Salty Dog Water Gathering System
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nCS1916853082
Abatement Plan No: AP-139

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *2024 Additional Delineation and Annual Groundwater Monitoring Report* detailing delineation and groundwater sampling activities performed in 2024 associated with the Salty Dog Water Gathering System (Site) pipeline release. The Site is located approximately 1,146 feet south of the San Juan River on private land in Unit N of Section 18, Township 29 North, Range 13 West, in San Juan County, New Mexico (Figure 1).

INITIAL RELEASE AND SITE BACKGROUND

A complete history of Site activities and information pertaining to the release are included in the *Stage 1 Abatement Plan,* submitted to the New Mexico Oil Conservation Division (NMOCD) on December 20, 2019, and the *Executive Summary – November 2022* report, dated November 20, 2022. The initial release was assigned incident number nCS1916853082 and the *Stage 1 Abatement Plan* has been assigned AP-139. This report summarizes the additional drilling and delineation work performed in December 2024 and groundwater sampling activities conducted between September 2023 and December 2024.

2024 ADDITIONAL DRILLING AND DELINEATION ACTIVITIES

Data collected at the Site between 2019 and 2024, including soil data from drilling and delineation efforts in 2019 and 2020 and groundwater sampling data collected between 2019 and 2024, indicated chloride impacts to groundwater remained undelineated in downgradient areas northwest of the release. As such, additional drilling efforts were conducted in December 2024 to further delineate downgradient groundwater impacts at the Site. Five additional borings (MW32 through MW36, shown on Figure 2) were advanced using a sonic drilling rig in order to continue delineation of impacted groundwater. Notification was provided to the NMOCD prior to the start of sampling (Appendix A). During drilling, soil lithology and conditions were logged by an Ensolum geologist who assessed the soil for the presence or absence of petroleum hydrocarbon odor and/or staining or any other noticeable observations. Soil samples were field screened for volatile

organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® QuanTab® test strips.

In general, borings encountered unconsolidated sand with varying volumes of silt, clay, and gravel from the ground surface to depths ranging from 20 feet to 60 feet below ground surface (bgs). The five borings advanced in 2024 encountered wet to saturated soils overlying the dry siltstone unit and completed as permanent groundwater monitoring wells MW32 through MW36. Groundwater monitoring wells were constructed by installing screened casing across the groundwater interface and solid casing to surface. Monitoring wells were constructed out of 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 2-inch Schedule 40 PVC 0.010-inch slotted screen. Wells were completed with 10-20 silica sand pack to 2 feet above the screened interval, then 2 feet of hydrated bentonite seal, and then bentonite-cement slurry grout to ground surface. The wells were completed above ground with a locking, steel protective casing cemented into the ground.

After construction, Ensolum surveyed the new groundwater monitoring wells with a Trimble® GeoExplorer® 3000 series Global Positioning System (GPS) to determine the latitude and longitude of each location. Top-of-casing elevations were surveyed using a DEWALT® DW074 Rotary Laser Level to an accuracy of (±) 0.01 feet so that groundwater flow direction and gradient could be determined relative to mean seal level. Once the top of well casing was surveyed, the depth to groundwater below top of casing was measured with an oil/water interface probe. The wells were developed by purging a minimum of 10 casing volumes, or until the well was purged dry. Boring/monitoring well locations from this drilling event are depicted on Figure 2. Soil boring logs and monitoring well construction diagrams are included as Appendix B.

Soil Sampling and Results

A total of three soil samples from each soil boring were submitted for laboratory analysis: one from the depth interval with the highest chloride field screening results (in either vadose or saturated zone), one from a depth interval within the vadose zone with the highest chloride field screening results, and one from the terminus of each boring. If no impacts were identified based on field screening techniques, a sample was collected from the depth where groundwater was encountered, in addition to one sample collected from the vadose zone and one from the terminus of each boring. Soil samples were submitted to Eurofins Analytical Laboratory (Eurofins) for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (EPA) Method 8021B, total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and motor-oil range organics (MRO) by EPA Method 8015M/D, and chloride by EPA Method 300.0.

Analytical results from the 2024 drilling event indicated all concentrations of benzene, BTEX, TPH, and chloride were either below the laboratory reporting limits or below the NMOCD Table I Closure Criteria. The soil analytical results collected during the December 2024 drilling event, as well as historical sampling events, are summarized in Table 1 and Figure 2. The laboratory analytical reports for the newly collected soil samples are included as Appendix C.

2024 SITEWIDE GROUNDWATER MONITORING

As proposed in the *Stage 1 Abatement Plan*, quarterly groundwater monitoring and sampling has been conducted beginning in the fourth quarter of 2019. Due to the timing of drilling and well installation work, the newly installed wells MW32 through MW36 were not sampled in 2024. Static groundwater levels are measured quarterly in all permanent monitoring wells at the Site using an oil/water interface probe. The interface probe is decontaminated with Alconox® soap and rinsed with distilled water prior to each measurement. Groundwater elevations at the Site are

summarized on Table 2. In general, groundwater typically flows to the west/northwest at the Site. Figures 3 through 6 depict groundwater elevations, inferred potentiometric contours, and estimated flow direction from the four most recent quarters of groundwater monitoring.

Of note, groundwater elevations in all Site wells have decreased since sampling began in 2019 and several wells are continually dry or do not contain sufficient volumes of water to collect groundwater samples. Historically, many of the Site wells are dry and/or contain insufficient volumes of water to sample during the winter months as the groundwater table fluctuates with seasonal variations; however, as seen across much of the region, this trend has extended into spring and summer months as well, likely in response to the ongoing drought conditions present in the area.

Groundwater Sampling and Results

Groundwater monitoring wells were sampled by purging a minimum of three casing volumes or purging until the well bails dry. Water quality parameters are collected during the purging process from each well. Once purging is complete, groundwater samples are collected directly into laboratory provided containers. Samples are labeled with the date and time of collection, sample name, sampler's name, and parameters to be analyzed. Strict chain-of-custody procedures are documented and include the date and time sampled, sample number, type of sample, sampler's name and signature, preservative used, and analysis required. Groundwater sample analysis included the following analytes: VOCs by EPA Method 8260B, general water chemistry (GWC) parameters including total dissolved solids (TDS) by EPA Standard Method (SM) 2540C, pH by EPA SM4500-H+B/9040C, anions (bromide, chloride, fluoride, nitrite-nitrate, phosphorus, and sulfate) by EPA Method 300.0, and cations (calcium, magnesium, potassium, and sodium) by EPA Method 200.7.

Based on historical results, all concentrations of analyzed VOCs have been below New Mexico Water Quality Control Commission (NMWQCC) standards since the first quarter of 2020. Of the general water chemistry parameters sampled during the 2024 quarterly events, concentrations of chloride, fluoride, sulfate, and TDS are the only constituents with exceedances of the NMWQCC standards at the Site. In general, most water chemistry parameters have been stable over time. Chloride concentrations have decreased in many of the Site wells since sampling began in 2019. Additionally, groundwater samples collected from MW21 through MW24 indicate background concentrations of chloride, sulfate, and TDS are also present above NMWQCC standards at the Site. All groundwater analytical results received for the Site, including background sampling results from temporary wells MW21 through MW24, are summarized in Tables 3 and 4. Groundwater analytical results for chloride and TDS from the previous four quarterly sampling events are presented on Figure 7. Complete groundwater laboratory analytical reports are included as Appendix D.

CONCLUSIONS

Based on previous soil and groundwater sampling conducted at the Site, Hilcorp and Ensolum performed additional drilling activities in December 2024 in attempts to fully delineate the groundwater impacts related to the produced water release. Wells MW32 through MW36 were installed in locations downgradient of existing wells that contain elevated chloride concentrations. Due to the timing of drilling and well installation work, the newly installed wells were not sampled in 2024 but will be included in future quarterly sampling events in 2025. Once groundwater sampling is conducted in 2025, additional recommendations will be presented regarding additional delineation and/or remedial approaches to address Site impacts.

Ensolum appreciates the opportunity to provide this report to the NMOCD. Please direct any questions to the undersigned.

Sincerely,

Ensolum, LLC

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Attachments:

Figure 1: Site Location Map
Figure 2: Soil Analytical Results
Figure 3: Groundwater Elevation Contours – Q1 2024
Figure 4: Groundwater Elevation Contours – Q2 2024
Figure 5: Groundwater Elevation Contours – Q3 2024
Figure 6: Groundwater Elevation Contours – Q4 2024
Figure 7: 2024 Groundwater Analytical Results

Table 1: Soil Analytical Results
Table 2: Groundwater Elevations
Table 3: Groundwater Analytical Results – Volatile Organic Compounds
Table 4: Groundwater Analytical Results – Inorganics and General Chemistry

Appendix A: Agency Correspondence
Appendix B: 2024 Drilling Boring Logs
Appendix C: Soil Sample Laboratory Analytical Reports
Appendix D: Groundwater Sample Laboratory Analytical Reports

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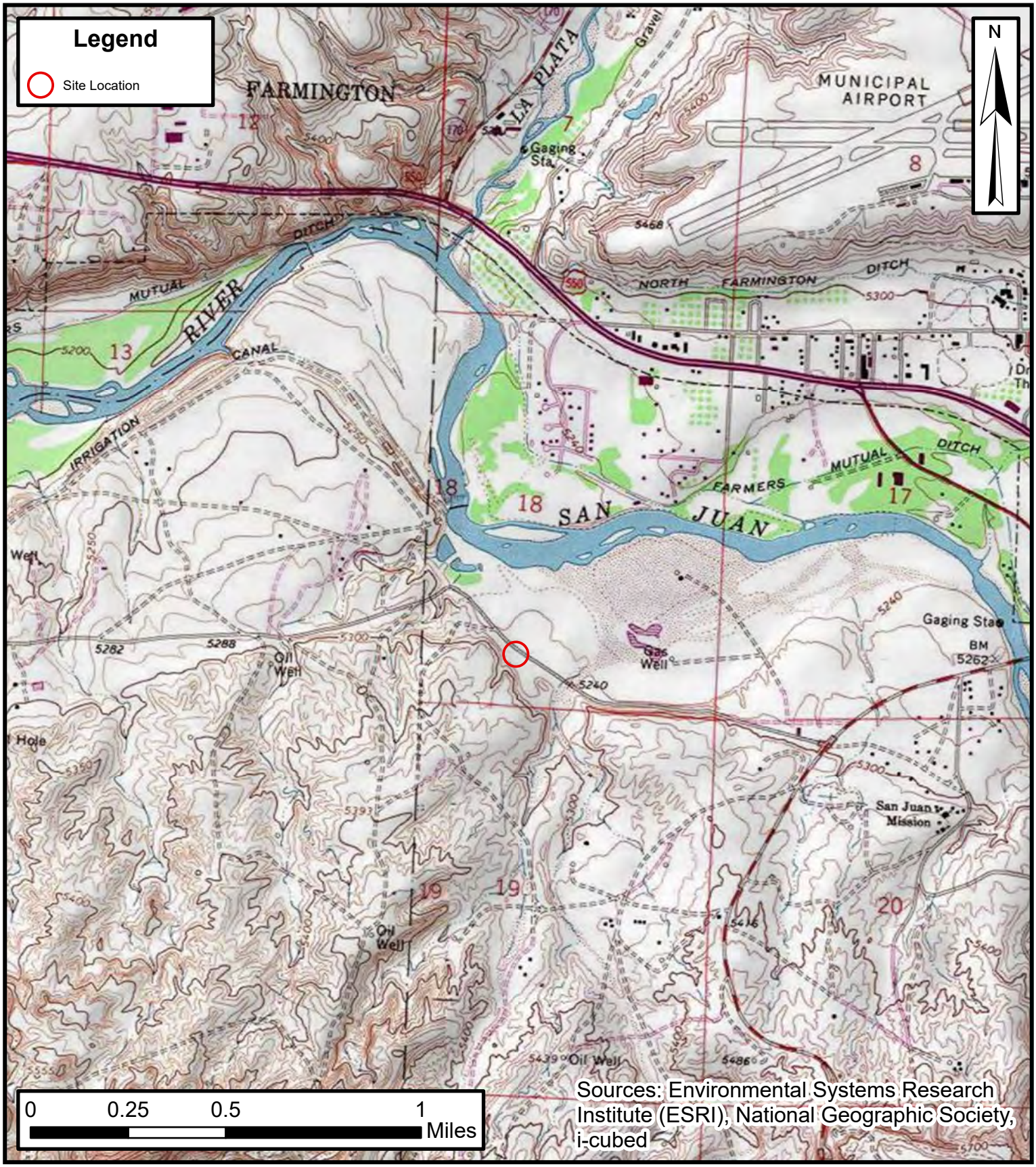
FIGURES



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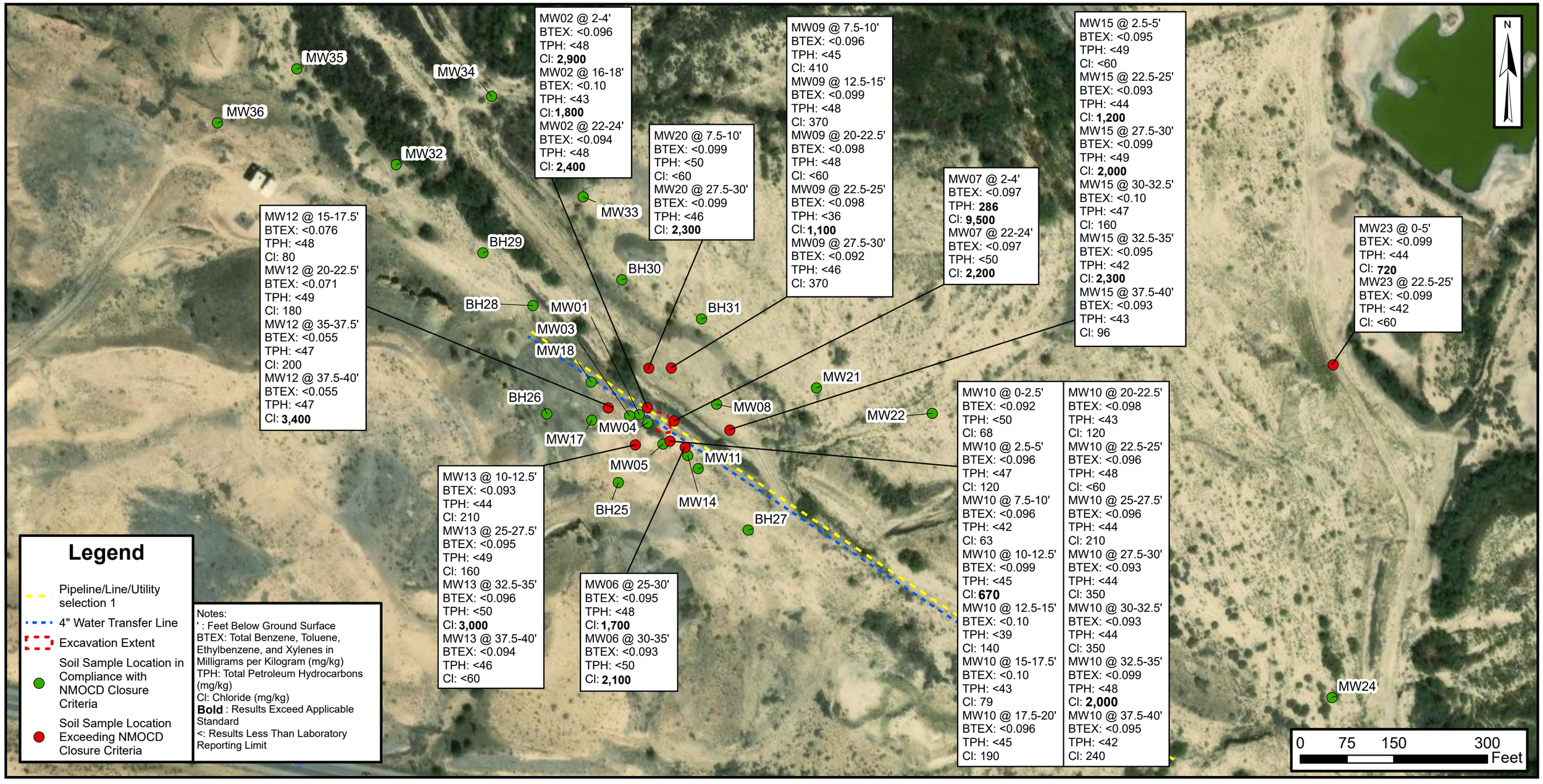
Site Location Map

Salty Dog Water Gathering System
Hilcorp Energy Company

NMOCD Incident No: nCS1916853082
SEC 18-T29N-R13W
San Juan County, New Mexico

FIGURE

1



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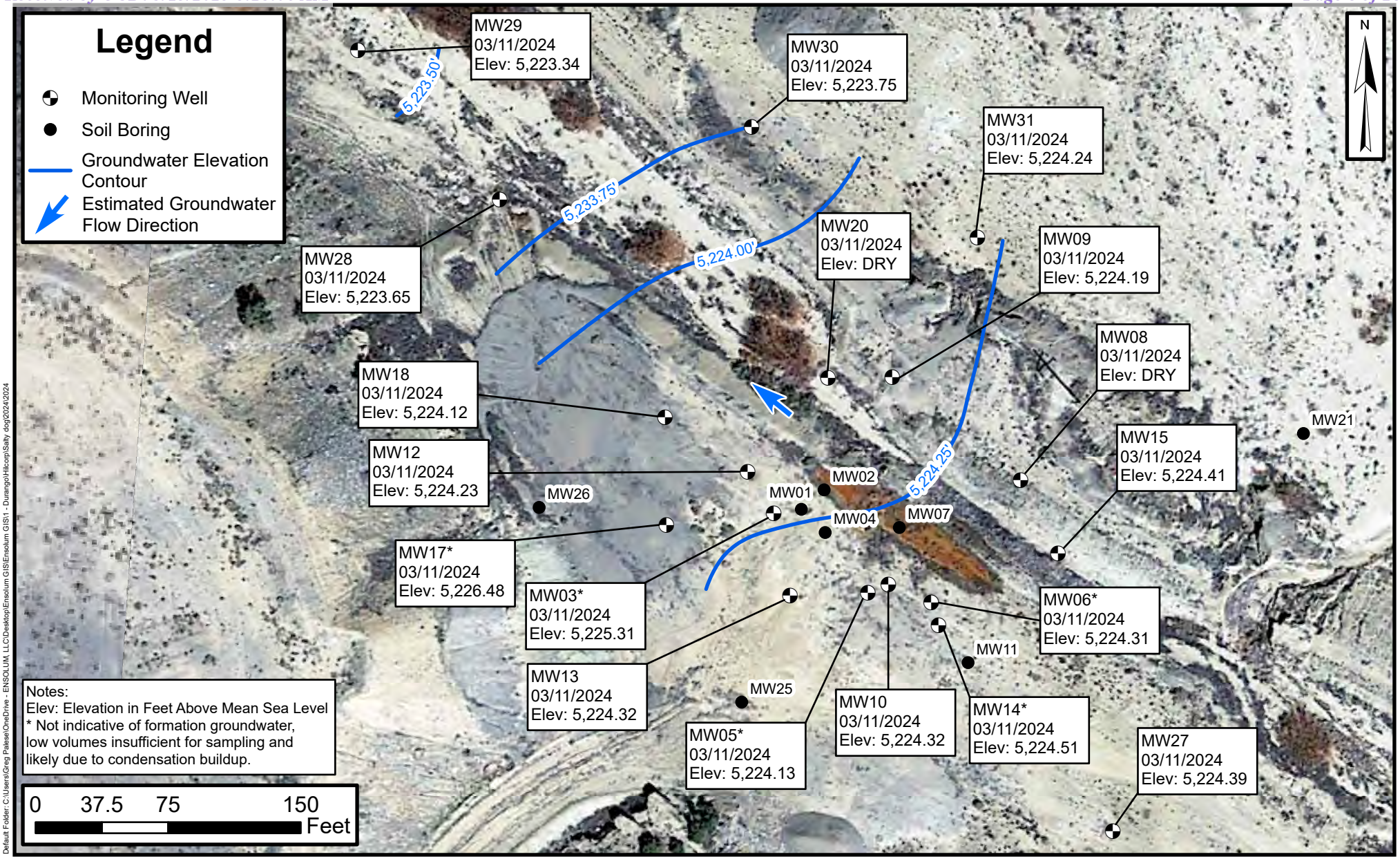
Soil Analytical Results

Salty Dog Water Gathering System
Hilcorp Energy Company

NMOCD Incident No: nCS1916853082
SEC 18-T29N-R13W
San Juan County, New Mexico

FIGURE
2

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



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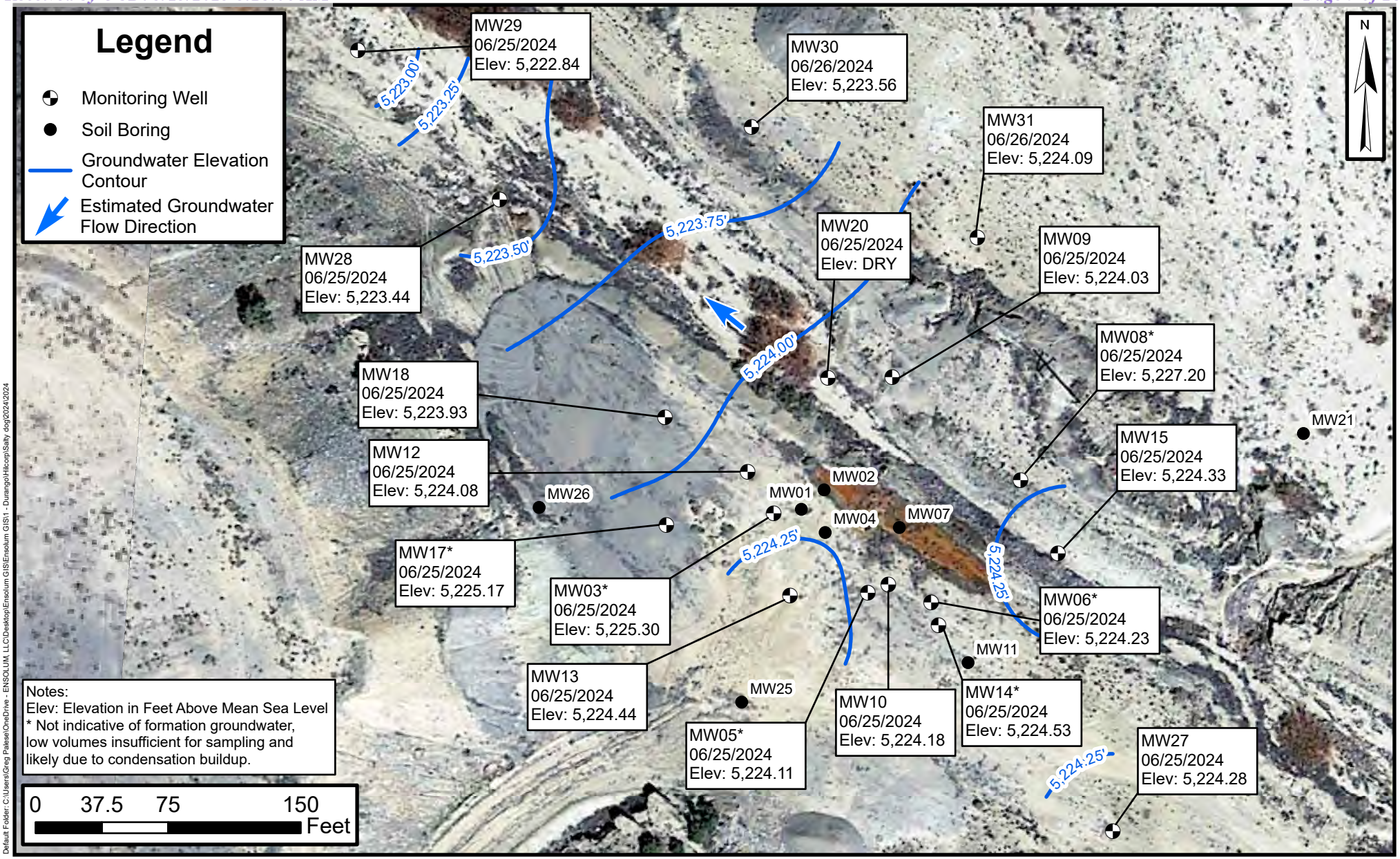
Groundwater Elevation Contours - Q1 2024

Salty Dog Water Gathering system
Hilcorp Energy Company
NMOCD Incident No: nCS1916853082
SEC 18-T29N-R13W
San Juan County, New Mexico

FIGURE
3

Sources: Google Earth



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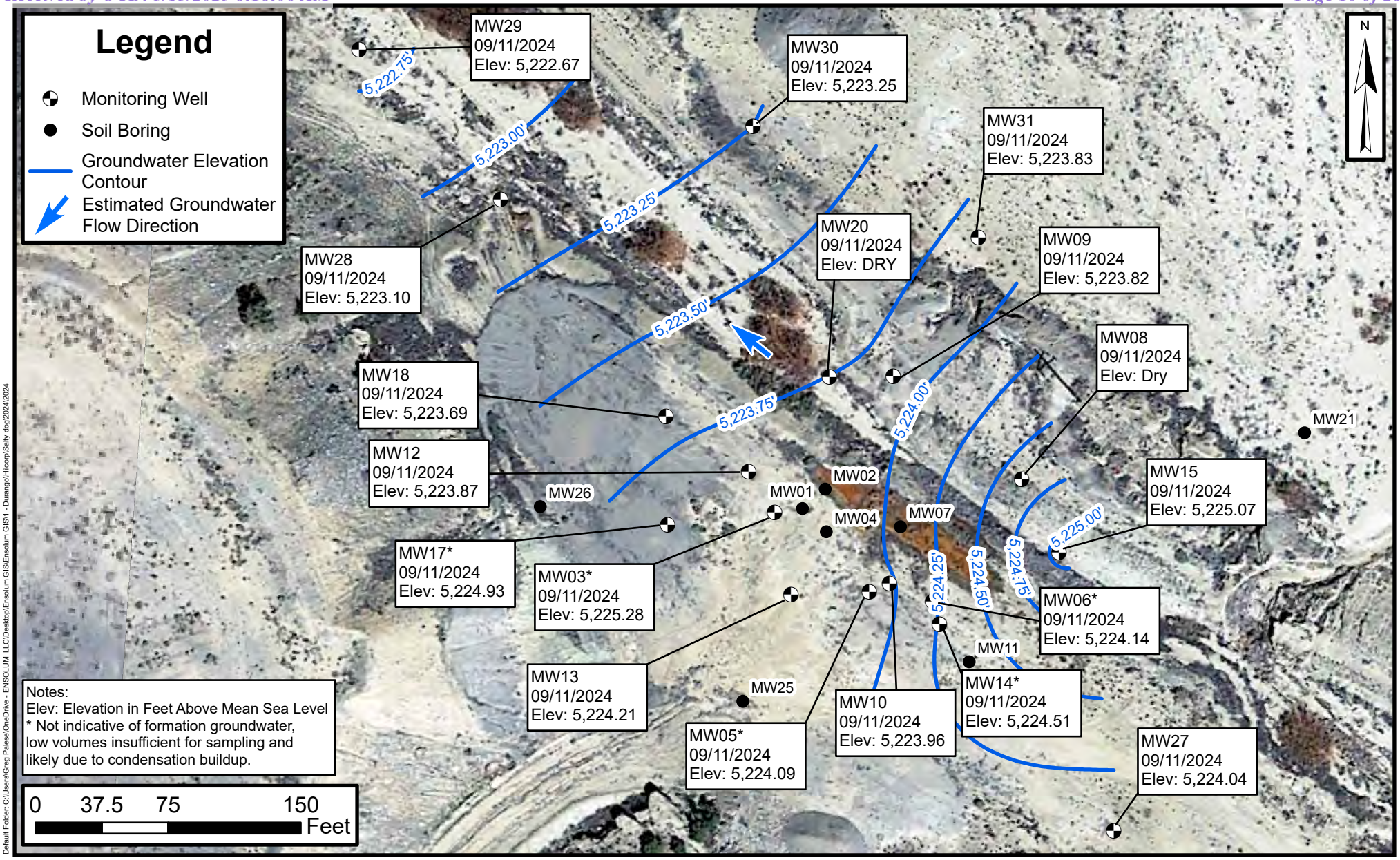
Groundwater Elevation Contours - Q2 2024

Salty Dog Water Gathering system
Hilcorp Energy Company
NMOCD Incident No: nCS1916853082
SEC 18-T29N-R13W
San Juan County, New Mexico

FIGURE
4

Sources: Google Earth



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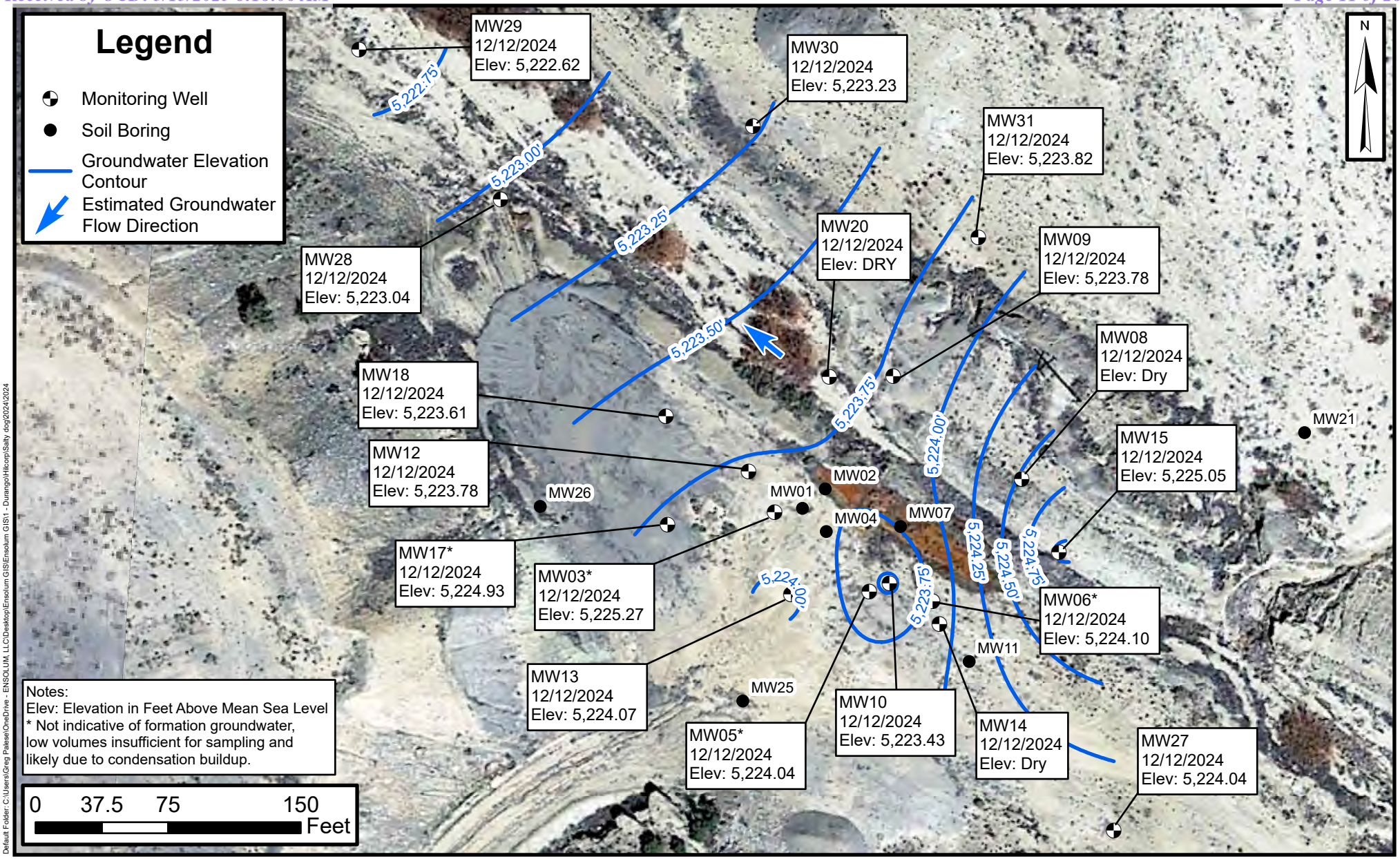
Groundwater Elevation Contours - Q3 2024

Salty Dog Water Gathering system
Hilcorp Energy Company
NMOCD Incident No: nCS1916853082
SEC 18-T29N-R13W
San Juan County, New Mexico

FIGURE
5

Sources: Google Earth



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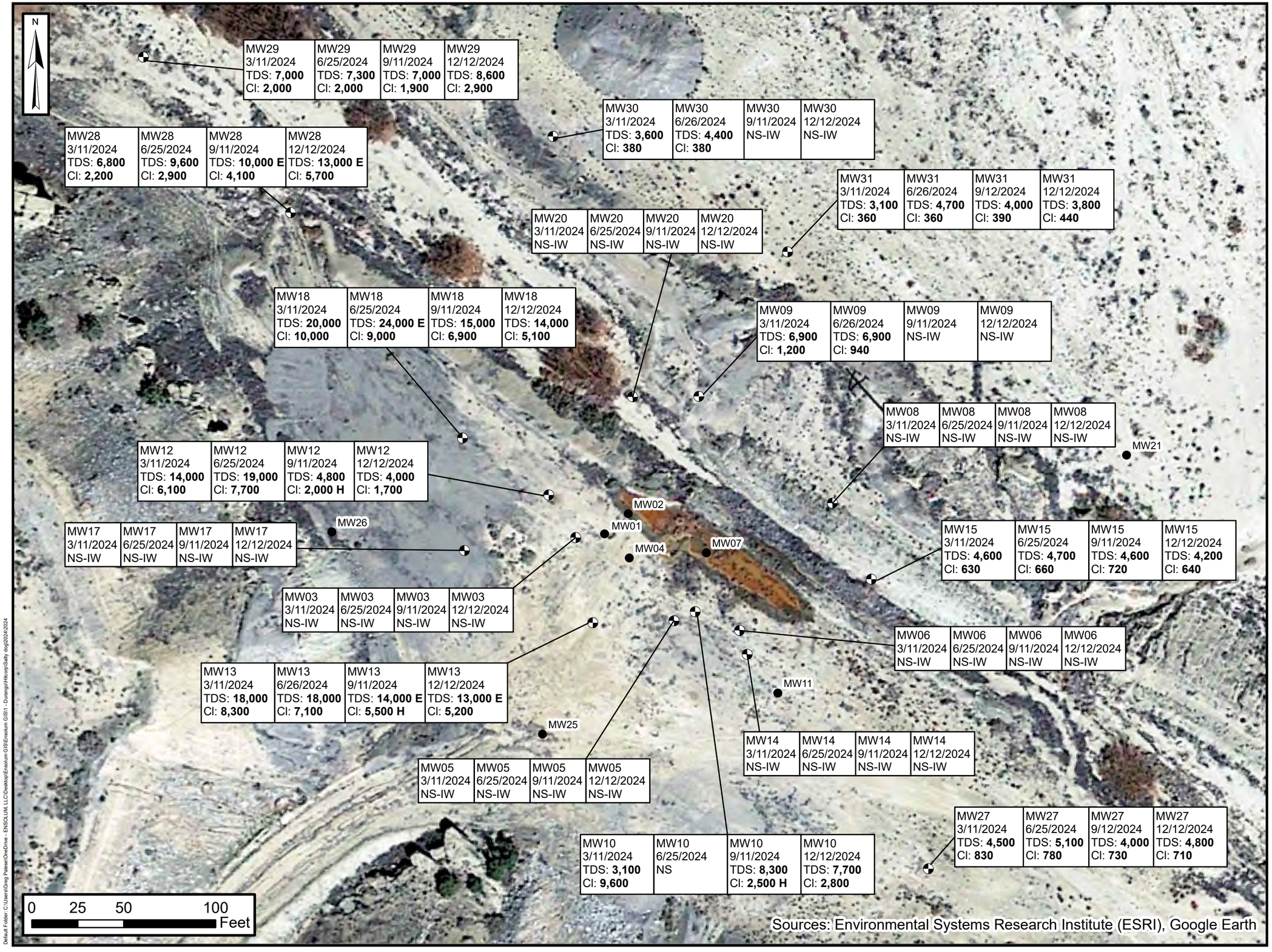
Groundwater Elevation Contours - Q4 2024

Salty Dog Water Gathering system
Hilcorp Energy Company
NMOCD Incident No: nCS1916853082
SEC 18-T29N-R13W
San Juan County, New Mexico

FIGURE
6

Sources: Google Earth



Legend

- Soil Boring
- Monitoring Well

Notes:
TDS: Total Dissolved Solids
Cl: Chloride in Milligrams per Liter (mg/L)
Bold: Indicates Result Exceeds NMWQCC Standard
NMWQCC: New Mexico Water Quality Conservation Commission
E: Results Exceed Calibration Range
H: Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time
NS: Not Sampled
NS-IW: Not Sampled due to Insufficient Water Volume

2024 Groundwater Analytical Results

Salty Dog Water Gathering System
Hilcorp Energy Company

NMOCD Incident No: nCS1916853082
SEC 18-T29N-R13W
San Juan County, New Mexico

Figure 7

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TABLES

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TABLE 1
SOIL ANALYTICAL RESULTS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Soil Sample Identification	Sample Date	Field Headspace (ppm)	Field Chloride (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria				10	50	100	600
MW01 @ 0' - 2'	8/30/2019	1.9	--	<0.023	<0.093	<46	<60
MW01 @ 8' - 10'	8/30/2019	1.0	--	<0.023	<0.094	<47	75
MW01 @ 10' - 12'	8/30/2019	1.0	--	<0.024	<0.096	<49	84
MW02 @ 2' - 4'	8/29/2019	9.1	--	<0.024	<0.096	<48	**2,900**
MW02 @ 16' - 18'	8/29/2019	4.8	--	<0.025	<0.10	<43	**1,800**
MW02 @ 22' - 24'	8/29/2019	1.9	--	<0.023	<0.094	<48	**2,400**
MW03 @ 14' - 16'	8/29/2019	7.6	--	<0.025	<0.099	<44	190
MW03 @ 26' - 28'	8/29/2019	2.7	--	<0.025	<0.10	<44	<61
MW04 @ 2' - 4'	8/30/2019	0.4	--	<0.025	<0.098	<48	390
MW04 @ 16' - 18'	8/30/2019	1.1	--	<0.023	<0.093	<49	160
MW04 @ 18' - 20'	8/30/2019	1.2	--	<0.025	<0.099	<49	110
MW05 @ 25' - 30'	8/28/2019	5.0	--	<0.024	<0.094	<49	390
MW05 @ 30' - 35'	8/28/2019	1.9	--	<0.025	<0.099	<48	110
MW06 @ 25' - 30'	8/28/2019	1.9	--	<0.024	<0.095	<48	**1,700**
MW06 @ 30' - 35'	8/28/2019	0.8	--	<0.023	<0.093	<50	**2,100**
MW07 @ 2'- 4'	8/29/2019	5.0	--	<0.024	<0.097	**286**	**9,500**
MW07 @ 22' - 24'	8/29/2019	5.0	--	<0.024	<0.097	<50	**2,200**
MW08 @ 2.5 - 5'	10/20/2019	0.2	<128	<0.024	<0.095	<41	<60
MW08 @ 20 - 22.5'	10/20/2019	0.4	<128	<0.025	<0.10	<46	<60
MW08 @ 22.5 - 25'	10/20/2019	0.3	<128	<0.025	<0.10	<42	69
MW08 @ 27.5 - 30'	10/20/2019	0.4	<128	<0.023	<0.093	<44	<60
MW09 @ 7.5 - 10'	10/20/2019	0.2	244	<0.024	<0.096	<45	410
MW09 @ 12.5 - 15'	10/20/2019	0.2	356	<0.025	<0.099	<48	370
MW09 @ 20 - 22.5'	10/23/2019	0.2	<128	<0.025	<0.10	<48	<60
MW09 @ 22.5 - 25'	10/20/2019	0.2	1,148	<0.024	<0.098	<36	**1,100**
MW09 @ 27.5 - 30'	10/20/2019	0.2	212	<0.023	<0.092	<46	370
MW10 @ 0 - 2.5'	10/21/2019	0.2	<128	<0.023	<0.092	<50	68
MW10 @ 2.5 - 5'	10/21/2019	0.3	<128	<0.024	<0.096	<47	120
MW10 @ 7.5 - 10'	10/21/2019	0.1	<128	<0.024	<0.096	<42	63
MW10 @ 10 - 12.5'	10/21/2019	0.9	776	<0.025	<0.099	<45	**670**
MW10 @ 12.5 - 15'	10/21/2019	0.6	<128	<0.025	<0.10	<39	140
MW10 @ 15 - 17.5'	10/21/2019	0.6	<128	<0.025	<0.10	<43	79
MW10 @ 17.5 - 20'	10/21/2019	0.4	184	<0.024	<0.096	<45	190
MW10 @ 20 - 22.5'	10/21/2019	0.4	184	<0.024	<0.098	<43	120
MW10 @ 22.5 - 25'	10/21/2019	0.2	<128	<0.024	<0.096	<48	<60
MW10 @ 25 - 27.5'	10/21/2019	0.4	184	<0.024	<0.096	<44	210
MW10 @ 27.5 - 30'	10/21/2019	0.7	988	<0.023	<0.093	<44	350
MW10 @ 30 - 32.5'	10/21/2019	0.2	656	<0.023	<0.093	<44	350
MW10 @ 32.5 - 35'	10/21/2019	0.2	1,148	<0.025	<0.099	<48	**2,000**
MW10 @ 37.5 - 40'	10/21/2019	0.6	<128	<0.024	<0.095	<42	240

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TABLE 1
SOIL ANALYTICAL RESULTS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Soil Sample Identification	Sample Date	Field Headspace (ppm)	Field Chloride (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
MW11 @ 32.5 - 35'	10/21/2019	1.6	<128	<0.020	<0.079	<46	130
MW11 @ 37.5 - 40'	10/21/2019	0.7	<128	<0.019	<0.076	<47	97
MW12 @ 15 - 17.5'	10/21/2019	0.5	280	<0.019	<0.076	<48	80
MW12 @ 20 - 22.5'	10/21/2019	0.3	356	<0.018	<0.071	<49	180
MW12 @ 35 - 37.5'	10/21/2019	0.3	280	<0.014	<0.055	<47	200
MW12 @ 37.5 - 40'	10/21/2019	0.3	5,420	<0.014	<0.055	<47	**3,400**
MW13 @ 10 - 12.5'	10/21/2019	0.3	212	<0.023	<0.093	<44	210
MW13 @ 25 - 27.5'	10/21/2019	1.0	156	<0.024	<0.095	<49	160
MW13 @ 32.5 - 35'	10/21/2019	0.4	2,472	<0.024	<0.096	<50	**3,000**
MW13 @ 37.5 - 40'	10/21/2019	0.3	<128	<0.023	<0.094	<46	<60
MW14 @ 5 - 7.5'	10/22/2019	0.8	<128	<0.024	<0.094	<46	<60
MW14 @ 20 - 22.5'	10/22/2019	1.0	212	<0.024	<0.094	<49	270
MW14 @ 25 - 27.5'	10/22/2019	2.5	184	<0.025	<0.099	<48	75
MW14 @ 27.5 - 30'	10/22/2019	2.2	<128	<0.024	<0.097	<47	<60
MW14 @ 30 - 32.5'	10/22/2019	2.1	128	<0.024	<0.097	<46	230
MW15 @ 2.5 - 5'	10/22/2019	0.0	<128	<0.024	<0.095	<49	<60
MW15 @ 22.5 - 25'	10/22/2019	0.0	400	<0.023	<0.093	<44	**1,200**
MW15 @ 27.5 - 30'	10/22/2019	0.0	988	<0.025	<0.099	<49	**2,000**
MW15 @ 30 - 32.5'	10/23/2019	0.1	212	<0.025	<0.10	<47	160
MW15 @ 32.5 - 35'	10/22/2019	0.0	2,472	<0.024	<0.095	<42	**2,300**
MW15 @ 37.5 - 40'	10/22/2019	0.0	<128	<0.023	<0.093	<43	96
MW17 @ 17.5 - 20'	2/6/2020	2.4	<124	<0.025	<0.10	<47	120
MW17 @ 37.5 - 40'	2/6/2020	0.9	<31	<0.025	<0.10	<48	<60
MW18 @ 20 - 22.5'	2/5/2020	4.1	132	<0.025	<0.099	<45	86
MW18 @ 37.5 - 40'	2/5/2020	0.9	<112	<0.024	<0.097	<50	91
MW20 @ 7.5 - 10'	2/7/2020	0.9	<112	<0.025	<0.099	<50	<60
MW20 @ 27.5 - 30'	2/7/2020	0.0	964	<0.025	<0.099	<46	**2,300**
MW21 @ 15 - 17.5'	2/6/2020	0.1	<124	<0.025	<0.10	<46	160
MW21 @ 17.5 - 20'	2/6/2020	1.0	<124	<0.025	<0.099	<48	99
MW22 @ 15 - 17.5'	2/6/2020	0.1	<124	<0.025	<0.098	<49	<60
MW22 @ 17.5 - 20'	2/6/2020	0.2	<124	<0.024	<0.098	<47	<60
MW23 @ 0 - 5'	2/7/2020	0.5	892	<0.025	<0.099	<44	**720**
MW23 @ 22.5 - 25'	2/7/2020	0.1	<28	<0.025	<0.099	<42	<60
MW24 @ 4.5 - 7'	2/7/2020	1.5	<112	<0.025	<0.099	<46	<60
MW24 @ 17.5 - 20'	2/7/2020	0.2	<112	<0.024	<0.097	<49	180
BH25 @ 15-20'	4/11/2023	0.4	<120	<0.024	<0.095	<49	<60
BH25 @ 38-41'	4/11/2023	--	--	<0.025	<0.099	<50	<60
BH26 @ 30-35'	4/12/2023	0.2	--	<0.025	<0.098	<48	<60
BH26 @ 35-40'	4/12/2023	0.0	--	<0.025	<0.099	<49	<60
BH27 @ 30-34'	4/13/2023	0.4	<120	<0.023	<0.093	<47	<60
BH27 @ 35-40'	4/13/2023	0.4	<120	<0.024	<0.097	<50	<60

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TABLE 1
SOIL ANALYTICAL RESULTS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Soil Sample Identification	Sample Date	Field Headspace (ppm)	Field Chloride (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
BH28 @ 25-30'	4/13/2023	1.2	<120	<0.024	<0.095	<47	210
BH28 @ 30-35'	4/13/2023	0.4	<120	<0.024	<0.095	<50	<60
BH29 @ 20-25'	4/14/2023	1.2	<120	<0.024	<0.095	<50	190
BH29 @ 25-30'	4/14/2023	3.0	356	<0.024	<0.097	<42	360
BH29 @ 30-32'	4/14/2023	0.6	<120	<0.024	<0.096	<50	<60
BH30 @ 20-25'	4/14/2023	1.2	<120	<0.024	<0.097	<43	110
BH30 @ 25-27'	4/14/2023	2.0	180	<0.025	<0.099	<43	190
BH31 @ 15-20'	4/14/2023	0.8	<120	<0.025	<0.10	<44	<60
BH31 @ 25-30'	4/14/2023	1.2	<120	<0.024	<0.097	<44	150
MW-32@15'	12/12/2024	0.0	308	<0.023	<0.094	<48	310
MW-32@20'	12/12/2024	0.0	397	<0.024	<0.094	<49	350
MW-32@27.5'	12/12/2024	0.3	269	<0.024	<0.098	<48	170
MW-33 @ 20'	12/10/2024	0.0	<168	<0.024	<0.097	<50	100
MW-33 @ 25'	12/10/2024	0.0	<168	<0.023	<0.094	<49	140
MW-33 @ 30'	12/10/2024	0.0	<168	<0.025	<0.10	<48	230
MW-34 @ 20'	12/11/2024	5.2	229.6	<0.025	<0.098	<47	160
MW-34 @ 25'	12/11/2024	7.1	229.6	<0.025	<0.099	<45	530
MW-34 @ 28'	12/11/2024	8.0	229.6	<0.024	<0.096	<47	170
MW-35 @ 10'	12/12/2024	0.0	<156	<0.024	<0.094	<48	<60
MW-35 @ 15'	12/12/2024	0.0	<156	<0.024	<0.097	<49	<60
MW-35 @ 28'	12/12/2024	0.0	<156	<0.024	<0.096	<46	<60
MW-36 @ 30'	12/13/2024	0.7	<156	<0.024	<0.096	<48	<61
MW-36 @ 47.5'	12/13/2024	0.0	<156	<0.023	<0.093	<49	<60
MW-36 @ 55'	12/13/2024	0.0	<156	<0.025	<0.098	<46	<60

Notes:

--: not measured

BTEX: benzene, toluene, ethylbenzene, total xylenes

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

ppm: parts per million

TPH: total petroleum hydrocarbons

<: indicates result is less than the stated laboratory reporting limit

*Concentrations in **bold** and shaded exceed the NMOCD Closure Criteria, 19.15.29 of the New Mexico Administrative Code*

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TABLE 2
GROUNDWATER ELEVATIONS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW03	5,262.40	9/12/2019	33.62	5,228.78
		10/22/2019	33.92	5,228.48
		10/24/2019	33.98	5,228.42
		2/11/2020	33.66	5,228.74
		3/12/2020	33.52	5,228.88
		6/22/2020	33.83	5,228.57
		9/10/2020	34.60	5,227.80
		12/1/2020	35.22	5,227.18
		2/22/2021	35.43	5,226.97
		6/24/2021	35.60	5,226.80
		9/28/2021*	36.23	5,226.17
		12/7/2021*	37.12	5,225.28
		3/15/2022*	36.65	5,225.75
		6/27/2022*	36.90	5,225.50
		9/23/2022*	37.04	5,225.36
		12/31/2022*	37.07	5,225.33
		3/30/2023*	37.06	5,225.34
		6/21/2023*	37.32	5,225.08
		8/16/2023	DRY	DRY
		12/13/2023*	37.09	5,225.31
		3/11/2024*	37.09	5,225.31
		6/25/2024*	37.10	5,225.30
		9/11/2024*	37.12	5,225.28
		12/12/2024*	37.13	5,225.27
MW05	5,262.11	9/12/2019	33.36	5,228.75
		10/22/2019	33.70	5,228.41
		10/24/2019	33.70	5,228.41
		2/11/2020	33.48	5,228.63
		3/12/2020	33.35	5,228.76
		6/22/2020	33.65	5,228.46
		9/10/2020	34.43	5,227.68
		11/30/2020	35.10	5,227.01
		2/19/2021	35.32	5,226.79
		6/24/2021	35.48	5,226.63
		9/28/2021	36.09	5,226.02
		12/7/2021	36.42	5,225.69
		3/15/2022	36.54	5,225.57
		6/27/2022	36.92	5,225.19
		9/23/2022*	37.12	5,224.99
		12/31/2022*	37.53	5,224.58
		3/30/2023*	37.49	5,224.62
		6/21/2023*	37.28	5,224.83
		8/16/2023	DRY	DRY
		12/13/2023*	37.99	5,224.12
		3/11/2024*	37.98	5,224.13
		6/25/2024*	38.00	5,224.11
		9/11/2024*	38.02	5,224.09
		12/12/2024*	38.07	5,224.04

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TABLE 2
GROUNDWATER ELEVATIONS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW06	5,261.78	9/12/2019	32.74	5,229.04
		10/22/2019	33.05	5,228.73
		10/24/2019	33.08	5,228.70
		2/11/2020	32.87	5,228.91
		3/12/2020	32.76	5,229.02
		6/22/2020	33.00	5,228.78
		9/9/2020	33.73	5,228.05
		11/30/2020	34.42	5,227.36
		2/18/2021	34.64	5,227.14
		6/24/2021	34.81	5,226.97
		9/27/2021	35.47	5,226.31
		12/7/2021	35.79	5,225.99
		3/16/2022	35.88	5,225.90
		6/27/2022	35.97	5,225.81
		9/23/2022*	36.53	5,225.25
		12/31/2022*	36.93	5,224.85
		3/30/2023*	36.82	5,224.96
		6/21/2023*	36.70	5,225.08
		8/16/2023	DRY	DRY
		12/13/2023*	37.51	5,224.27
		3/11/2024*	37.47	5,224.31
		6/25/2024*	37.55	5,224.23
		9/11/2024*	37.64	5,224.14
		12/12/2024*	37.68	5,224.10
MW08	5,252.50	10/22/2019	23.80	5,228.70
		10/24/2019	23.81	5,228.69
		2/11/200	23.98	5,228.52
		3/12/2020	23.50	5,229.00
		6/23/2020	23.76	5,228.74
		9/14/2020	24.50	5,228.00
		12/2/2020	25.03	5,227.47
		2/23/2021	25.18	5,227.32
		6/24/2021	25.21	5,227.29
		9/27/2021	25.21	5,227.29
		12/7/2021	DRY	DRY
		3/16/2022	DRY	DRY
		6/27/2022	DRY	DRY
		9/23/2022	DRY	DRY
		12/31/2022	DRY	DRY
		3/30/2023	DRY	DRY
		6/21/2023*	25.10	5,227.40
		8/16/2023	DRY	DRY
		12/13/2023	DRY	DRY
		3/11/2024	DRY	DRY
		6/25/2024*	25.30	5,227.20
		9/11/2024	DRY	DRY
		12/12/2024	DRY	DRY

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TABLE 2
GROUNDWATER ELEVATIONS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW09	5,252.38	10/22/2019	23.94	5,228.44
		10/24/2019	23.93	5,228.45
		2/11/2020	23.70	5,228.68
		3/12/2020	23.53	5,228.85
		6/23/2020	23.86	5,228.52
		9/15/2020	24.62	5,227.76
		12/2/2020	25.21	5,227.17
		2/23/2021	25.39	5,226.99
		6/24/2021	25.60	5,226.78
		9/28/2021	26.22	5,226.16
		12/7/2021	36.58	5,215.80
		3/16/2022	26.66	5,225.72
		6/27/2022	26.77	5,225.61
		9/23/2022	27.28	5,225.10
		12/31/2022	27.68	5,224.70
		3/30/2023	27.58	5,224.80
		6/21/2023	27.49	5,224.89
		8/16/2023	27.87	5,224.51
		12/13/2023	28.24	5,224.14
		3/11/2024	28.19	5,224.19
		6/25/2024	28.35	5,224.03
		9/11/2024	28.56	5,223.82
		12/12/2024	28.60	5,223.78
MW10	5,259.28	10/22/2019	30.59	5,228.69
		10/24/2019	30.60	5,228.68
		2/11/2020	30.35	5,228.93
		3/12/2020	30.25	5,229.03
		6/22/2020	30.52	5,228.76
		9/9/2020	31.26	5,228.02
		11/30/2020	31.93	5,227.35
		2/18/2021	32.16	5,227.12
		6/24/2021	32.32	5,226.96
		9/27/2021	33.00	5,226.28
		12/7/2021	33.34	5,225.94
		3/15/2022	33.43	5,225.85
		6/27/2022	34.53	5,224.75
		9/23/2022	34.06	5,225.22
		12/31/2022	34.45	5,224.83
		3/30/2023	34.35	5,224.93
		6/21/2023	34.21	5,225.07
		8/17/2023	34.62	5,224.66
		12/12/2023	35.00	5,224.28
		3/11/2024	34.96	5,224.32
		6/25/2024	35.10	5,224.18
		9/11/2024	35.32	5,223.96
		12/12/2024	35.85	5,223.43

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TABLE 2
GROUNDWATER ELEVATIONS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW12	5,259.25	10/22/2019	30.85	5,228.40
		10/24/2019	30.83	5,228.42
		2/11/2020	30.55	5,228.70
		3/12/2020	30.41	5,228.84
		6/23/2020	30.72	5,228.53
		9/11/2020	31.49	5,227.76
		12/1/2020	32.11	5,227.14
		2/22/2021	32.33	5,226.92
		6/24/2021	32.57	5,226.68
		9/28/2021	32.12	5,227.13
		12/7/2021	33.45	5,225.80
		3/15/2022	33.54	5,225.71
		6/27/2022	33.65	5,225.60
		9/23/2022	34.15	5,225.10
		12/31/2022	34.96	5,224.29
		3/30/2023	34.42	5,224.83
		6/21/2023	34.35	5,224.90
		8/17/2023	34.70	5,224.55
		12/12/2023	34.98	5,224.27
		3/11/2024	35.02	5,224.23
		6/25/2024	35.17	5,224.08
		9/11/2024	35.38	5,223.87
		12/12/2024	35.47	5,223.78
MW13	5,260.32	10/22/2019	31.81	5,228.51
		10/24/2019	31.83	5,228.49
		2/11/2020	31.55	5,228.77
		3/12/2020	31.43	5,228.89
		6/22/2020	31.73	5,228.59
		9/10/2020	32.51	5,227.81
		12/1/2020	33.16	5,227.16
		2/19/2021	33.37	5,226.95
		6/24/2021	33.75	5,226.57
		9/28/2021	34.14	5,226.18
		12/7/2021	34.46	5,225.86
		3/15/2022	34.53	5,225.79
		6/27/2022	34.63	5,225.69
		9/23/2022	35.11	5,225.21
		12/31/2022	35.53	5,224.79
		3/30/2023	35.53	5,224.79
		6/21/2023	NM	NM
		8/17/2023	37.45	5,222.87
		12/13/2023	35.80	5,224.52
		3/11/2024	36.00	5,224.32
		6/25/2024	35.88	5,224.44
		9/11/2024	36.11	5,224.21
		12/12/2024	36.25	5,224.07

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TABLE 2
GROUNDWATER ELEVATIONS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW14	5,259.67	10/22/2019	30.92	5,228.75
		10/24/2019	30.92	5,228.75
		2/11/2020	30.74	5,228.93
		3/12/2020	30.63	5,229.04
		6/23/2020	30.91	5,228.76
		9/9/2020	31.62	5,228.05
		11/30/2020	32.30	5,227.37
		2/18/2021	32.52	5,227.15
		6/24/2021	32.70	5,226.97
		9/27/2021	33.34	5,226.33
		12/7/2021	33.68	5,225.99
		3/15/2022	33.74	5,225.93
		6/27/2022	33.87	5,225.80
		9/23/2022*	34.40	5,225.27
		12/31/2022*	34.82	5,224.85
		3/30/2023*	34.70	5,224.97
		6/21/2023*	34.60	5,225.07
		8/17/2023	DRY	DRY
		12/13/2023*	35.13	5,224.54
		3/11/2024*	35.16	5,224.51
		6/25/2024*	35.14	5,224.53
		9/11/2024*	35.16	5,224.51
		12/12/2024	DRY	DRY
MW15	5,256.00	10/22/2019	27.20	5,228.80
		10/24/2019	27.15	5,228.85
		2/11/2020	26.96	5,229.04
		3/12/2020	26.84	5,229.16
		6/23/2020	27.12	5,228.88
		9/14/2020	27.91	5,228.09
		12/2/2020	28.55	5,227.45
		2/23/2021	28.76	5,227.24
		6/24/2021	28.92	5,227.08
		9/27/2021	29.59	5,226.41
		12/7/2021	29.92	5,226.08
		3/16/2022	29.97	5,226.03
		6/27/2022	30.12	5,225.88
		9/23/2022	30.63	5,225.37
		12/31/2022	31.05	5,224.95
		3/30/2023	30.93	5,225.07
		6/21/2023	30.84	5,225.16
		8/16/2023	31.21	5,224.79
		12/12/2023	31.66	5,224.34
		3/11/2024	31.59	5,224.41
		6/25/2024	31.67	5,224.33
		9/11/2024	30.93	5,225.07
		12/12/2024	30.95	5,225.05

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TABLE 2
GROUNDWATER ELEVATIONS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW17	5,260.27	2/11/2020	31.60	5,228.67
		3/12/2020	31.47	5,228.80
		6/22/2020	31.87	5,228.40
		9/11/2020	32.69	5,227.58
		12/2/2020	33.32	5,226.95
		2/22/2021	33.54	5,226.73
		6/24/2021	--	--
		9/28/2021*	34.32	5,225.95
		12/6/2021*	34.61	5,225.66
		3/16/2022*	34.66	5,225.61
		6/27/2022*	35.18	5,225.09
		9/23/2022*	35.09	5,225.18
		12/31/2022	DRY	DRY
		3/30/2023	DRY	DRY
		6/21/2023*	35.25	5,225.02
		8/17/2023	DRY	DRY
		12/12/2023*	33.73	5,226.54
		3/11/2024*	33.79	5,226.48
		6/25/2024*	35.10	5,225.17
		9/11/2024*	35.34	5,224.93
		12/12/2024*	35.34	5,224.93
MW18	5,259.64	2/11/2020	31.07	5,228.57
		3/12/2020	30.92	5,228.72
		6/22/2020	31.33	5,228.31
		9/11/2020	32.08	5,227.56
		12/1/2020	32.67	5,226.97
		2/22/2021	32.86	5,226.78
		6/24/2021	38.09	5,221.55
		9/28/2021	38.74	5,220.90
		12/6/2021	34.06	5,225.58
		3/14/2022	34.11	5,225.53
		6/27/2022	34.24	5,225.40
		9/23/2022	34.76	5,224.88
		12/31/2022	35.12	5,224.52
		3/30/2023	34.97	5,224.67
		6/21/2023	34.90	5,224.74
		8/17/2023	35.31	5,224.33
		12/12/2023	35.54	5,224.10
		3/11/2024	35.52	5,224.12
		6/25/2024	35.71	5,223.93
		9/11/2024	35.95	5,223.69
		12/12/2024	36.03	5,223.61

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TABLE 2
GROUNDWATER ELEVATIONS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW20	5,252.11	2/11/2020	23.41	5,228.70
		3/12/2020	23.24	5,228.87
		6/23/2020	23.58	5,228.53
		9/15/2020	24.36	5,227.75
		12/2/2020	24.94	5,227.17
		2/23/2021	25.11	5,227.00
		6/24/2021	25.32	5,226.79
		9/28/2021	DRY	DRY
		12/7/2021	26.26	5,225.85
		3/16/2022	26.33	5,225.78
		6/27/2022	DRY	DRY
		9/23/2022	DRY	DRY
		12/31/2022	DRY	DRY
		3/30/2023	DRY	DRY
		6/21/2023	DRY	DRY
		8/17/2023	DRY	DRY
		12/12/2023	DRY	DRY
		3/11/2024	DRY	DRY
		6/25/2024	DRY	DRY
		9/11/2024	DRY	DRY
		12/12/2024	DRY	DRY
MW27	5,262.41	6/21/2023	DRY	DRY
		8/17/2023	DRY	DRY
		12/12/2023	38.09	5,224.32
		3/11/2024	38.02	5,224.39
		6/25/2024	38.13	5,224.28
		9/11/2024	38.37	5,224.04
		12/12/2024	38.37	5,224.04
MW28	5,252.68	6/21/2023	28.60	5,224.08
		8/17/2023	29.06	5,223.62
		12/12/2023	29.17	5,223.51
		3/11/2024	29.03	5,223.65
		6/25/2024	29.24	5,223.44
		9/11/2024	29.58	5,223.10
		12/12/2024	29.64	5,223.04
MW29	5,251.76	6/21/2023	28.09	5,223.67
		8/17/2023	28.65	5,223.11
		12/12/2023	28.60	5,223.16
		3/11/2024	28.42	5,223.34
		6/25/2024	28.92	5,222.84
		9/11/2024	29.09	5,222.67
		12/12/2024	29.14	5,222.62

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TABLE 2
GROUNDWATER ELEVATIONS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW30	5,243.58	6/21/2023	19.32	5,224.26
		8/17/2023	20.45	5,223.13
		12/13/2023	19.94	5,223.64
		3/11/2024	19.83	5,223.75
		6/26/2024	20.02	5,223.56
		9/11/2024	20.33	5,223.25
		12/12/2024	20.35	5,223.23
MW31	5,244.32	6/21/2023	19.39	5,224.93
		8/17/2023	19.78	5,224.54
		12/13/2023	20.17	5,224.15
		3/11/2024	20.08	5,224.24
		6/26/2024	20.23	5,224.09
		9/11/2024	20.49	5,223.83
		12/12/2024	20.50	5,223.82
MW32	5,249.34	NM	NM	NM
MW33	5,242.32	NM	NM	NM
MW34	5,240.95	NM	NM	NM
MW35	5,248.08	NM	NM	NM
MW37	5,272.84	NM	NM	NM

Notes:

**: not indicative of formation groundwater, low volumes insufficient for sampling and likely due to condensation buildup*

AMSL: above mean sea level

BTOC: below top of casing

NM: Not Measured

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Acetone (µg/L)	2-butanone	Other VOCs (1)
NMWQCC Standard		**5**	**1,000**	**700**	**620**	NE	NE	NA
MW03	9/12/2019	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/22/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	12/1/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	2/22/2021	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	6/24/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/28/2021	Insufficient Water Volumes to Collect Sample						
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/16/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/27/2022	Insufficient Water Volumes to Collect Sample						
	9/23/2022	Insufficient Water Volumes to Collect Sample						
	12/31/2022	Insufficient Water Volumes to Collect Sample						
	3/30/2023	Insufficient Water Volumes to Collect Sample						
	6/21/2023	Insufficient Water Volumes to Collect Sample						
	8/16/2023	Insufficient Water Volumes to Collect Sample						
	12/12/2023	Insufficient Water Volumes to Collect Sample						
	3/11/2024	Insufficient Water Volumes to Collect Sample						
	6/25/2024	Insufficient Water Volumes to Collect Sample						
	9/11/2024	Insufficient Water Volumes to Collect Sample						
	12/12/2024	Insufficient Water Volumes to Collect Sample						
MW05	9/12/2019	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/22/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	11/30/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	2/22/2021	Insufficient Water Volumes to Collect Sample						
	6/24/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/28/2021	Insufficient Water Volumes to Collect Sample						
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/17/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/27/2022	Insufficient Water Volumes to Collect Sample						
	9/23/2022	Insufficient Water Volumes to Collect Sample						
	12/31/2022	Insufficient Water Volumes to Collect Sample						
	3/30/2023	Insufficient Water Volumes to Collect Sample						
	6/21/2023	Insufficient Water Volumes to Collect Sample						
	8/16/2023	Insufficient Water Volumes to Collect Sample						
	12/12/2023	Insufficient Water Volumes to Collect Sample						
	3/11/2024	Insufficient Water Volumes to Collect Sample						
	6/25/2024	Insufficient Water Volumes to Collect Sample						
	9/11/2024	Insufficient Water Volumes to Collect Sample						
	12/12/2024	Insufficient Water Volumes to Collect Sample						
MW06	9/12/2019	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/22/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	11/30/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Acetone (µg/L)	2-butanone	Other VOCs (1)
NMWQCC Standard		**5**	**1,000**	**700**	**620**	NE	NE	NA
MW06	2/22/2021	Insufficient Water Volumes to Collect Sample						
	6/24/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/28/2021	Insufficient Water Volumes to Collect Sample						
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/16/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/28/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/23/2022	Insufficient Water Volumes to Collect Sample						
	12/31/2022	Insufficient Water Volumes to Collect Sample						
	3/30/2023	Insufficient Water Volumes to Collect Sample						
	6/21/2023	Insufficient Water Volumes to Collect Sample						
	8/16/2023	Insufficient Water Volumes to Collect Sample						
	12/12/2023	Insufficient Water Volumes to Collect Sample						
	3/11/2024	Insufficient Water Volumes to Collect Sample						
	6/25/2024	Insufficient Water Volumes to Collect Sample						
	9/11/2024	Insufficient Water Volumes to Collect Sample						
	12/12/2024	Insufficient Water Volumes to Collect Sample						
MW08	10/24/2019	<1.0	<1.0	<1.0	<1.5	11	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	11	<10	ND
	6/23/2020	<1.0	<1.0	<1.0	<1.5	11	<10	ND
	9/9/2020	Insufficient Water Volumes to Collect Sample						
	11/30/2020	Insufficient Water Volumes to Collect Sample						
	2/22/2021	Insufficient Water Volumes to Collect Sample						
	6/24/2021	Insufficient Water Volumes to Collect Sample						
	9/28/2021	Insufficient Water Volumes to Collect Sample						
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/16/2022	Insufficient Water Volumes to Collect Sample						
	6/28/2022	Insufficient Water Volumes to Collect Sample						
	9/23/2022	Insufficient Water Volumes to Collect Sample						
	12/31/2022	Insufficient Water Volumes to Collect Sample						
	3/30/2023	Insufficient Water Volumes to Collect Sample						
	6/21/2023	Insufficient Water Volumes to Collect Sample						
	8/16/2023	Insufficient Water Volumes to Collect Sample						
	12/12/2023	Insufficient Water Volumes to Collect Sample						
	3/11/2024	Insufficient Water Volumes to Collect Sample						
	6/25/2024	Insufficient Water Volumes to Collect Sample						
	9/11/2024	Insufficient Water Volumes to Collect Sample						
	12/12/2024	Insufficient Water Volumes to Collect Sample						
MW09	10/24/2019	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/13/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/23/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	12/2/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	2/22/2021	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	6/24/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/27/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/16/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Acetone (µg/L)	2-butanone	Other VOCs (1)
NMWQCC Standard		**5**	**1,000**	**700**	**620**	NE	NE	NA
MW09	6/28/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/23/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/31/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/30/2023	<2.0	<2.0	<2.0	<3.0	<20	<10	ND
	6/21/2023	<1.0	<1.0	<1.0	<1.5	<20	<10	ND
	8/16/2023	<1.0	<1.0	<1.0	<1.5	<20	<10	ND
	12/13/2023	<1.0	<1.0	<1.0	<1.0	<20	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/25/2024	<2.0	<2.0	<2.0	<3.0	<20	<20	ND
	9/11/2024	Insufficient Water Volumes to Collect Sample						
	12/12/2024	Insufficient Water Volumes to Collect Sample						
MW10	10/24/2019	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/22/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	11/30/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	2/22/2021	Insufficient Water Volumes to Collect Sample						
	6/24/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/27/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/15/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/27/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/23/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/31/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/30/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/21/2023	<2.0	<2.0	<2.0	<3.0	<10	<10	ND
	8/17/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2023	<1.0	<1.0	<1.0	<1.0	<10	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/25/2024	Insufficient Water Volumes to Collect Sample						
	9/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
MW12	10/24/2019	**26**	12	2.6	22	<10	<10	ND
	3/12/2020	2.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/23/2020	<1.0	<1.0	<1.0	1.9	<10	<10	ND
	9/9/2020	2.32	<1.0	<1.0	4.14	<5.0	<10	ND
	12/1/2020	1.77	<1.0	<1.0	4.52	<5.0	<10	ND
	2/22/2021	1.20	<1.0	<1.0	4.42	<5.0	<10	ND
	6/28/2021	<2.0	<2.0	<2.0	<3.0	--	--	ND
	9/28/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/15/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/27/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/23/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/31/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/30/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/21/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	8/17/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2023	<1.0	<1.0	<1.0	<1.0	<10	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/25/2024	<2.0 F1	<2.0 F1	<2.0	<3.0	<20	<20	ND
	9/11/2024	<1.0	<1.0	<1.0	<1.5	130	18	ND
	12/12/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Acetone (µg/L)	2-butanone	Other VOCs (1)
NMWQCC Standard		**5**	**1,000**	**700**	**620**	NE	NE	NA
MW13	10/24/2019	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/22/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	12/1/2020	<1.0	<1.0	<1.0	<3.0	<5.0	<10	ND
	2/22/2021	Insufficient Water Volumes to Collect Sample						
	6/24/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/28/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/15/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/27/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/23/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/31/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/30/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/21/2023	Insufficient Water Volumes to Collect Sample						
	8/17/2023	<1.0	<1.0	<1.0	<1.5			ND
	12/13/2023	<1.0	<1.0	<1.0	<1.0			ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/26/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
MW14	10/24/2019	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/23/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	11/30/2020	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	2/22/2021	Insufficient Water Volumes to Collect Sample						
	6/24/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/28/2021	Insufficient Water Volumes to Collect Sample						
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/17/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/28/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/23/2022	Insufficient Water Volumes to Collect Sample						
	12/31/2022	Insufficient Water Volumes to Collect Sample						
	3/30/2023	Insufficient Water Volumes to Collect Sample						
	6/21/2023	Insufficient Water Volumes to Collect Sample						
	8/17/2023	Insufficient Water Volumes to Collect Sample						
	12/13/2023	Insufficient Water Volumes to Collect Sample						
	3/11/2024	Insufficient Water Volumes to Collect Sample						
	6/25/2024	Insufficient Water Volumes to Collect Sample						
	9/11/2024	Insufficient Water Volumes to Collect Sample						
	12/12/2024	Insufficient Water Volumes to Collect Sample						
MW15	10/24/2019	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/23/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	12/2/2020	<1.0	<1.0	<1.0	<3.0	<50	<10	ND

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Acetone (µg/L)	2-butanone	Other VOCs (1)
NMWQCC Standard		**5**	**1,000**	**700**	**620**	NE	NE	NA
MW15	2/22/2021	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	6/24/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/27/2021	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/16/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/28/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/23/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/31/2022	<2.0	<2.0	<2.0	<3.0	<10	<10	ND
	3/30/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/21/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	8/16/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2023	<1.0	<1.0	<1.0	<1.0	<10	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/25/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
MW17	2/11/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/22/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	12/1/2020	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	2/22/2021	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	6/24/2021	Insufficient Water Volumes to Collect Sample						
	9/27/2021	Insufficient Water Volumes to Collect Sample						
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/14/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/28/2022	Insufficient Water Volumes to Collect Sample						
	9/23/2022	Insufficient Water Volumes to Collect Sample						
	12/31/2022	Insufficient Water Volumes to Collect Sample						
	3/30/2023	Insufficient Water Volumes to Collect Sample						
	6/21/2023	Insufficient Water Volumes to Collect Sample						
	8/17/2023	Insufficient Water Volumes to Collect Sample						
	12/12/2023	Insufficient Water Volumes to Collect Sample						
	3/11/2024	Insufficient Water Volumes to Collect Sample						
	6/25/2024	Insufficient Water Volumes to Collect Sample						
	9/11/2024	Insufficient Water Volumes to Collect Sample						
	12/12/2024	Insufficient Water Volumes to Collect Sample						
MW18	2/11/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/12/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/22/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	12/1/2020	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	2/22/2021	<1.0	<1.0	<1.0	<3.0	<50	<10	ND
	6/28/2021	<2.0	<2.0	<2.0	--	--	--	ND
	9/27/2021	<1.0	<1.0	<1.0	<1.5	<4.0	<10	ND
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/14/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND

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TABLE 3
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Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Acetone (µg/L)	2-butanone	Other VOCs (1)
NMWQCC Standard		**5**	**1,000**	**700**	**620**	NE	NE	NA
MW18	6/27/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/23/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/31/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/30/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/21/2023	<2.0	<2.0	<2.0	<3.0	<10	<10	ND
	8/17/2023	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2023	<1.0	<1.0	<1.0	<1.0	<10	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/25/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
MW20	2/11/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	3/13/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/23/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/9/2020	<1.0	<1.0	<1.0	<3.0	<50	<10.0	ND
	12/2/2020	<1.0	<1.0	<1.0	<3.0	<50	<10.0	ND
	2/22/2021	<1.0	<1.0	<1.0	<3.0	<50	<10.0	ND
	6/24/2021	Insufficient Water Volumes to Collect Sample						
	9/27/2021	Insufficient Water Volumes to Collect Sample						
	12/7/2021	Insufficient Water Volumes to Collect Sample						
	3/16/2022	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/27/2022	Insufficient Water Volumes to Collect Sample						
	9/23/2022	Insufficient Water Volumes to Collect Sample						
	12/31/2022	Insufficient Water Volumes to Collect Sample						
	3/30/2023	Insufficient Water Volumes to Collect Sample						
	6/21/2023	Insufficient Water Volumes to Collect Sample						
	8/17/2023	Insufficient Water Volumes to Collect Sample						
	12/12/2023	Insufficient Water Volumes to Collect Sample						
	3/11/2024	Insufficient Water Volumes to Collect Sample						
	6/25/2024	Insufficient Water Volumes to Collect Sample						
	9/11/2024	Insufficient Water Volumes to Collect Sample						
	12/12/2024	Insufficient Water Volumes to Collect Sample						
MW21 (2)	2/6/2020	<5.0	<5.0	<5.0	<7.5	<50	<50	ND
MW22 (2)	2/7/2020	<1.0	<1.0	<1.0	<1.5	11	<10	ND
MW23 (2)	2/7/2020	<5.0	<5.0	<5.0	<7.5	<50	<50	ND
MW24 (2)	2/15/2020	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
MW27	6/21/2023	Insufficient Water Volumes to Collect Sample						
	8/17/2023	Insufficient Water Volumes to Collect Sample						
	12/12/2023	<1.0	<1.0	<1.0	<1.0	<10	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/25/2024	<2.0	<2.0	<2.0	<3.0	<20	<20	ND
	9/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
MW28	6/22/2023	<2.0	<2.0	<2.0	<3.0	<3.0		ND
	8/17/2023	<1.0	<1.0	<1.0	<1.5	11	<10	ND
	12/12/2023	<1.0	<1.0	<1.0	<1.0	11	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/25/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Acetone (µg/L)	2-butanone	Other VOCs (1)
NMWQCC Standard		**5**	**1,000**	**700**	**620**	NE	NE	NA
MW29	6/22/2023	<2.0	<2.0	<2.0	<3.0	<3.0		ND
	8/17/2023	<1.0	<1.0	<1.0	<1.5	11	<10	ND
	12/12/2023	<0.500	<0.500	<0.500	<0.500	11	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/25/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
MW30	6/22/2023	<2.0	<2.0	<2.0	<3.0	<3.0		ND
	8/16/2023	<1.0	<1.0	<1.0	<1.5	11	<10	ND
	12/13/2023	<1.0	<1.0	<1.0	<1.0	11	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/26/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/11/2024	Insufficient Water Volumes to Collect Sample						
	12/12/2024	Insufficient Water Volumes to Collect Sample						
MW31	6/22/2023	<2.0	<2.0	<2.0	<3.0	<3.0		ND
	8/16/2023	<1.0	<1.0	<1.0	<1.5	11	<10	ND
	12/13/2023	<1.0	<1.0	<1.0	<1.0	11	<10	ND
	3/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	6/26/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	9/11/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND
	12/12/2024	<1.0	<1.0	<1.0	<1.5	<10	<10	ND

Notes:

(1): Volatile organic compounds (VOCs) not detected above laboratory reporting limits were not included in this table. See Laboratory Analyitcal Reports for complete results.

(2): Groundwater samples collected from a temporary well screen placed in the open boring.

µg/L: micrograms per liter

NMWQCC: New Mexico Water Quality Control Commission

ND: not detected above laboratory reporting limit

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

*Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code*

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TABLE 4
GROUNDWATER ANALYTICAL RESULTS - INORGANICS AND GENERAL CHEMISTRY
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	USEPA Method 300.0: Anions								USEPA Method 200.7: Dissolved Metals				Standard Method 2320B: Alkalinity			General Chemistry		
		Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)	Nitrogen, Nitrite as N (mg/L)	Nitrogen, Nitrate as N (mg/L)	Nitrate + Nitrite as N (mg/L)	Phosphorus, Orthophosphate (As P, mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Bicarbonate (As CaCO3) (mg/L)	Carbonate (As CaCO3) (mg/L)	Total Alkalinity (mg/L)	Conductivity (µmhos/cm)	Total Dissolved Solids	pH
NMWQCC Standard		NE	250	600	1.6	1.0	10.0	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1,000	6-9
MW03	9/12/2019	13	13,000	1,600	<10	19	<10	--	<50	2,500	390	27	6,600	137.8	<2.000	137.8	45,000	30,000	7.41
	3/12/2020	19	15,000	1,700	<1.0	<10	<10	--	<5.0	2,500	410	25	6,500	--	--	--	--	26,700	7.38
	6/22/2020	16	12,000	1,800	<1.0	<10	<10	--	<5.0	1,900	350	25	5,500	131.1	<2.000	131.1	46,000	22,000	7.48
	9/9/2020	<500	14,900	2,830	<1.50	--	--	0.152	--	--	--	--	--	--	--	--	--	32,600	7.36
	12/1/2020	15.6	11,300	1,770	<1.50	--	--	0.233	--	--	--	--	--	--	--	--	--	25,700	7.31
	2/22/2021	<100	12,200	1,930	<1.50	--	--	0.359	--	--	--	--	--	--	--	--	--	29,200	7.25
	6/24/2021	15	11,000	1,900	<1.0	--	--	<10	<5.0	2,000	310	28	5,900	--	--	--	--	23,600	--
	9/28/2021	Insufficient Water Volumes to Collect Sample																	
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/16/2022	Insufficient Water Volumes to Collect Sample																	
	6/27/2022	Insufficient Water Volumes to Collect Sample																	
	9/23/2022	Insufficient Water Volumes to Collect Sample																	
	12/31/2022	Insufficient Water Volumes to Collect Sample																	
	3/30/2023	Insufficient Water Volumes to Collect Sample																	
	6/21/2023	Insufficient Water Volumes to Collect Sample																	
	8/16/2023	Insufficient Water Volumes to Collect Sample																	
	12/12/2023	Insufficient Water Volumes to Collect Sample																	
	3/11/2024	Insufficient Water Volumes to Collect Sample																	
	6/25/2024	Insufficient Water Volumes to Collect Sample																	
	9/11/2024	Insufficient Water Volumes to Collect Sample																	
	12/12/2024	Insufficient Water Volumes to Collect Sample																	
MW05	9/12/2019	15	15,000	2,300	<1.0	20	21	--	<5.0	2,100	750	25	7,800	153.9	<2.000	153.9	54,000	34,000	7.25
	3/12/2020	4.3	3,400	2,600	<1.0	<4.0	<4.0	--	<5.0	760	110	12	2,300	--	--	--	--	8,420	7.57
	6/22/2020	5.8	4,500	2,100	<1.0	<4.0	<4.0	--	<5.0	1,000	150	16	2,500	199.6	<2.000	199.6	19,000	12,000	7.66
	9/9/2020	<100	1,780	3,000	0.761	--	--	1.83	--	--	--	--	--	--	--	--	--	6,720	7.46
	11/30/2020	<100	1,660	2,510	0.751	--	--	0.294	--	--	--	--	--	--	--	--	--	6,600	7.52
	2/22/2021	Insufficient Water Volumes to Collect Sample																	
	6/24/2021	2.5	1,900	2,300	<1.0	--	--	<1.0	<5.0	540	80	10	1300	--	--	--	--	6,420	--
	9/28/2021	Insufficient Water Volumes to Collect Sample																	
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/17/2022	4.9	3,300	4,700	<1.0	--	--	<2.0	<5.0	820	98	13	1,500	271.4	<2.000	271.4	22,000	13,100	7.68
	6/27/2022	Insufficient Water Volumes to Collect Sample																	
	9/23/2022	Insufficient Water Volumes to Collect Sample																	
	12/31/2022	Insufficient Water Volumes to Collect Sample																	
	3/30/2023	Insufficient Water Volumes to Collect Sample																	
	6/21/2023	Insufficient Water Volumes to Collect Sample																	
	8/16/2023	Insufficient Water Volumes to Collect Sample																	
	12/12/2023	Insufficient Water Volumes to Collect Sample																	
	3/11/2024	Insufficient Water Volumes to Collect Sample																	
	6/25/2024	Insufficient Water Volumes to Collect Sample																	
	9/11/2024	Insufficient Water Volumes to Collect Sample																	
	12/12/2024	Insufficient Water Volumes to Collect Sample																	
MW06	9/12/2019	5.5	5,300	2,300	<1.0	<10	1.0	--	<5.0	1,100	170	16	3,500	200.8	<2.000	200.8	22,000	13,600	7.49
	3/12/2020	12	9,600	3,900	<1.0	<10	18	--	<5.0	1,100	450	18	5,400	--	--	--	--	19,800	7.50
	6/22/2020	9.8	7,200	3,800	<1.0	<10	13	--	<5.0	870	350	17	4,800	226.3	<2.000	226.3	31,000	18,200	7.69
	9/9/2020	<100	8,610	4,330	<1.50	--	--	13.4	--	--	--	--	--	--	--	--	--	18,400	7.35
	11/30/2020	13.5	9,100	3,700	<1.50	--	--	15.3	--	--	--	--	--	--	--	--	--	19,600	7.53
	2/22/2021	Insufficient Water Volumes to Collect Sample																	
	6/24/2021	7.3	4,900	4,700	1.2	--	--	9.6	<5.0	730	290	15	4,800	--	--	--	--	15,200	--
	9/28/2021	Insufficient Water Volumes to Collect Sample																	
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/16/2022	5	3,400	4,700	<1.0	--	--	5.0	<5.0	610	230	17	3,500	269.8	<2.000	269.8	23,000	13,300	7.73
	6/28/2022	3.9	2,300	4,000	0.86	--	--	2.3	<2.5	560	220	18	3,300	276.0	<2.000	276.0	20,000	11,800	--
	9/23/2022	Insufficient Water Volumes to Collect Sample																	
	12/31/2022	Insufficient Water Volumes to Collect Sample																	
	3/30/2023	Insufficient Water Volumes to Collect Sample																	
	6/21/2023	Insufficient Water Volumes to Collect Sample																	
	8/16/2023	Insufficient Water Volumes to Collect Sample																	
	12/12/2023	Insufficient Water Volumes to Collect Sample																	
	3/11/2024	Insufficient Water Volumes to Collect Sample																	
	6/25/2024	Insufficient Water Volumes to Collect Sample																	
	9/11/2024	Insufficient Water Volumes to Collect Sample																	
	12/12/2024	Insufficient Water Volumes to Collect Sample																	
MW08	10/24/2019	2.4	1,500	3,100	2.8	<0.50	3.0	--	<10	580	200	9.0	1,800	--	--	--	--	7,700	7.76
	3/12/2020	1.4	670	4,400	2.8	<2.0	<2.0	--	<5.0	470	180	6.1	1,700	--	--	--	--	6,950	7.63
	6/23/2020	1.4	550	4,700	2.6	<1.0	<1.0	--	<5.0	450	190	6.2	1,800	232.2	<2.000	232.2	9,100	8,050	7.60
	9/9/2020	Insufficient Water Volumes to Collect Sample																	
	11/30/2020	Insufficient Water Volumes to Collect Sample																	
	2/22/2021	Insufficient Water Volumes to Collect Sample																	
	6/24/2021	Insufficient Water Volumes to Collect Sample																	
	9/28/2021	Insufficient Water Volumes to Collect Sample																	
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/16/2022	Insufficient Water Volumes to Collect Sample																	
	6/28/2022	Insufficient Water Volumes to Collect Sample																	
	9/23/2022	Insufficient Water Volumes to Collect Sample																	

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TABLE 4
GROUNDWATER ANALYTICAL RESULTS - INORGANICS AND GENERAL CHEMISTRY
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	USEPA Method 300.0: Anions								USEPA Method 200.7: Dissolved Metals				Standard Method 2320B: Alkalinity			General Chemistry		
		Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)	Nitrogen, Nitrite as N (mg/L)	Nitrogen, Nitrate as N (mg/L)	Nitrate + Nitrite as N (mg/L)	Phosphorus, Orthophosphate (As P, mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Bicarbonate (As CaCO3) (mg/L)	Carbonate (As CaCO3) (mg/L)	Total Alkalinity (mg/L)	Conductivity (µmhos/cm)	Total Dissolved Solids	pH
NMWQCC Standard		NE	**250**	**600**	**1.6**	1.0	10.0	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	**1,000**	**6-9**
MW08	12/31/2022	Insufficient Water Volumes to Collect Sample																	
	3/30/2023	Insufficient Water Volumes to Collect Sample																	
	6/21/2023	Insufficient Water Volumes to Collect Sample																	
	8/16/2023	Insufficient Water Volumes to Collect Sample																	
	12/12/2023	Insufficient Water Volumes to Collect Sample																	
	3/11/2024	Insufficient Water Volumes to Collect Sample																	
	6/25/2024	Insufficient Water Volumes to Collect Sample																	
	9/11/2024	Insufficient Water Volumes to Collect Sample																	
	12/12/2024	Insufficient Water Volumes to Collect Sample																	
MW09	10/24/2019	3.9	**3,300**	**1,900**	<0.50	<2.0	3.1	--	<2.5	1,100	190	14	1,600	--	--	--	--	**8,410**	7.35
	3/13/2020	4.5	**3,400**	**2,200**	<1.0	<2.0	3.5	--	<5.0	1,000	180	11	1,700	--	--	--	--	**8,980**	7.24
	6/23/2020	4.3	**3,200**	**2,300**	<1.0	<1.0	3.0	--	<5.0	870	170	11	1,900	236.1	<2.000	236.1	15,000	**10,400**	7.58
	9/9/2020	<100	**1,720**	**2,870**	<1.50	--	--	2.34	--	--	--	--	--	--	--	--	--	**6,400**	7.18
	12/2/2020	<10.0	**1,410**	**2,380**	<1.50	--	--	2.38	--	--	--	--	--	--	--	--	--	**6,100**	7.21
	2/22/2021	<100	**1,240**	**2,580**	<1.50	--	--	2.14	--	--	--	--	--	--	--	--	--	**4,980**	7.27
	6/24/2021	1.5	**740**	**2,500**	<1.0	--	--	<1.0	<5.0	530	94	12	860	--	--	--	--	**5,100**	--
	9/27/2021	2	**1,200**	**2,600**	<1.0	<1.0	1.1	--	<5.0	690	120	14	1,000	236.8	<2.000	236.8	7,300	**5,560**	7.19
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/16/2022	2.5	**1,700**	**2,300**	<1.0	--	--	<1.0	<5.0	710	130	15	1,200	229.8	<2.000	229.8	8,900	**6,560**	7.31
	6/28/2022	1.8	**970**	**2,200**	1.0	--	--	<1.0	<2.5	990	190	52	1,100	242.5	<2.000	242.5	7,200	**5,370**	--
	9/23/2022	4.5	**3,500**	**2,200**	0.62	--	--	<2.0	<2.5	1200	220	21	1,900	263.2	<2.000	263.2	15,000	**8,750**	7.36
	12/31/2022	2.0	**1,300**	**2,400**	<1.0	--	--	<1.0	<5.0	620	110	12	1,200	--	--	--	--	**6,110**	7.38
	3/30/2023	<0.50	**540**	**2,100**	<0.50	<0.50	<0.50	<0.50	<2.5	510	83	8.1	890	244.3	<2.000	244.3	6,000	**4,620**	7.22
	6/21/2023	1.6	**720**	**2,800**	<1.0	<1.0	<1.0	<1.0	<5.0	660	110	8.7	1,000	305.0	<2.000	305.0	7,200	**5,660**	7.42
	8/16/2023	2.3	**1,100**	**3,600**	0.94	<0.50	<0.50	--	<10	740	160	6.4	1,600	462.7	<2.000	462.7	9,600	**6,600**	7.72
	12/13/2023	1.4	**780**	**2,600**	0.69	<0.50	<0.50	--	<2.5	620	130	12	980	313.3	<2.000	313.3	7,000	**5,920**	7.56
	3/11/2024	2.1	**1,200**	**2,200**	<1.0	<1.0	<1.0	<1.0	<5.0	600	120	8.9	910	--	--	260.0	7,200	**6,900**	--
	6/26/2024	1.8	**940**	**2,700**	0.98	<2.0	<0.50	<2.0	<2.5	690	150	9	1,300	--	--	350.0	8,000	**6,900**	8.0 HF
	9/11/2024	Insufficient Water Volumes to Collect Sample																	
	12/12/2024	Insufficient Water Volumes to Collect Sample																	
MW10	10/24/2019	3.4	**2,700**	**2,200**	<0.50	<2.0	3.5	--	<10	600	82	9.1	2,300	--	--	--	--	**8,040**	7.24
	3/12/2020	2.9	**2,200**	**2,200**	<1.0	<2.0	2.2	--	<5.0	640	85	8.7	1,600	--	--	--	--	**6,660**	7.36
	6/22/2020	3.1	**2,100**	**2,000**	<1.0	<2.0	<2.0	--	<5.0	710	94	8.8	1,500	218.7	<2.000	218.7	9,900	**7,200**	7.65
	9/9/2020	<100	**1,540**	**2,640**	<1.50	--	--	1.78	--	--	--	--	--	--	--	--	--	**5,370**	7.45
	11/30/2020	<10.0	**1,210**	**2,160**	<1.50	--	--	1.67	--	--	--	--	--	--	--	--	--	**5,950**	7.42
	2/22/2021	Insufficient Water Volumes to Collect Sample																	
	6/24/2021	1.8	**1,200**	**2,200**	<1.0	--	--	<1.0	<5.0	510	77	9.5	1,200	--	--	--	--	**5,690**	--
	9/27/2021	5.3	**3,600**	**1,900**	<1.0	--	--	<4.0	<5.0	1,300	180	26	1,800	185.4	<2.000	185.4	16,000	**9,510**	7.34
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/15/2022	3.9	**2,900**	**2,000**	<1.0	--	--	<2.0	<5.0	1,100	120	18	1,700	198.5	<2.000	198.5	14,000	**7,340**	7.70
	6/27/2022	5.2	**3,500**	**1,600**	<0.50	--	--	<4.0	<2.5	1,500	200	39	2,000	170.8	<2.000	<170.8	18,000	**10,100**	--
	9/23/2022	4.5	**3,300**	**1,600**	0.71	--	--	<4.0	<2.5	920	120	18	1,800	180.7	<2.000	180.7	15,000	**9,200**	7.51
	12/31/2022	3.8	**3,100**	**2,100**	<1.0	--	--	<2.0	<5.0	910	120	16	1,800	--	--	--	--	**7,670**	7.66
	3/30/2023	2.5	**2,700**	**1,800**	<0.50	<2.0	<2.0	<2.0	<2.5	860	98	9.2	1,800	173.2	<2.000	173.2	13,000	**8,260**	7.62
	6/21/2023	<10	**2,700**	**1,900**	<10	<10	<10	<10	<50	880	98	11	1,800	194.2	<2.000	194.2	15,000	**7,980**	7.51
	8/17/2023	3.3	**2,600**	**2,000**	<0.50	<2.0	0.52	--	<10	830	87	10	1,700	207.9	<2.000	207.9	13,000	**85,500***	7.73
	12/12/2023	3.6	**3,100**	**2,100**	<0.50	<0.50	<0.50	--	<2.5	1,000	120	16	1,700	178.8	<2.000	178.8	15,000	**8,480**	7.88
	3/11/2024	3.6	**3,100**	**2,000**	<1.0	<1.0	<1.0	<1.0	<5.0	790	90	9.7	1,600	--	--	190	14,000	**9,600**	--
	6/25/2024	Not Sampled																	
	9/11/2024	2.8	**2,500 H**	**2,100**	<1.0	--	--	<2.0	--	730	85	13	1,700	--	--	200	13,000	**8,300**	--
	12/12/2024	3.5	**2,800**	**2,100**	**2.1**	--	--	<1.0	<5.0	1,200	160	16	3,100	--	--	180	15,000	**7,700**	7.5 HF
MW12	10/24/2019	35	**27,000**	**2,400**	<0.50	<20	<20	--	<2.5	2,800	400	75	18,000	--	--	--	--	**57,000**	7.34
	3/12/2020	33	**28,000**	**2,400**	<1.0	<20	<20	--	<5.0	2,400	370	67	13,000	--	--	--	--	**42,900**	7.20
	6/23/2020	32	**25,000**	**2,400**	<1.0	<10	2.5	--	<5.0	2,300	370	73	15,000	256.2	<2.000	256.2	91,000	**52,000**	7.45
	9/9/2020	<500	**21,900**	**3,230**	<1.5	--	--	2.24	--	--	--	--	--	--	--	--	--	**41,600**	7.07
	12/1/2020	22.4	**18,600**	<2500	<1.50	--	--	3.45	--	--	--	--	--	--	--	--	--	**31,100**	7.17
	2/22/2021	<100	**14,400**	**2,860**	<1.50	--	--	3.90	--	--	--	--	--	--	--	--	--	**27,100**	7.38
	6/28/2021	5.2	**3,400**	**1,800**	<1.0	--	--	<4.0	<5.0	1,100	150	12	1,800	--	--	--	--	**10,500**	--
	9/28/2021	11	**8,300**	**2,900**	<1.0	<1.0	4.9	4.90	<5.0	910	140	36	4,800	256.8	<2.000	256.6	36,000	**18,900**	7.39
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/15/2022	8.7	**6,500**	**2,700**	<1.0	--	--	6.90	<5.0	730	110	34	4,600	248.4	<2.000	248.6	30,000	**15,200**	7.48
	6/27/2022	7.7	**5,900**	**2,400**	<0.50	--	--	7.40	<2.5	670	110	27	4,100	245.6	<2.000	245.6	26,000	**13,900**	--
	9/23/2022	4.3	**3,700**	**2,600**	0.64	--	--	5.20	<2.5	490	73	20	3,200	226.6	<2.000	226.6	16,000	**8,900**	7.45
	12/31/2022	3.2	**2,700**	**2,800**	<1.0	--	--	5.50	<5.0	380	63	20	2,300	--	--	--	--	**7,940**	7.73
	3/30/2023	2.4	**2,500**	**2,400**	<0.50	<2.0	4.6	4.6	<2.5	360	55	15	2,600	254.6	<2.000	254.6	14,000	**8,540**	7.69
	6/21/2023	3.3	**2,300**	**1,900**	<2.0	<2.0	<2.0	<2.0	<10	260	42	14	2,000	252.0	<2.000	252.0	13,000	**6,690**	7.58
	8/17/2023	1.3	**910**	**760**	0.60	<0.50	<0.50	--	<2.5	120	23	17	780	171.5	<2.000	171.5	4,500	**28,500***	7.65
	12/12/2023	1.9	**1,500**	**3,300**	0.65	<0.50	4.1	--	<2.5	330	68	19	2,000	263.8	<2.000	263.8	13,000	**6,250**	7.93
	3/11/2024	7.5	**6,100**	**2,800**	<1.0	<10	2.1 H	2.1	<5.0	860	150	24	3,300	--	--	220.0	25,000	**14,000**	--
	6/25/2024	9.3	**7,700**	**1,100**	<0.50	<2.0	1.1 H	1.1	<2.5	1800	280	52	3,300	--	--	160.0	27,000	**19,000**	7.7 HF
	9/11/2024	3.0	**2,000 H**	**840**	<1.0	--	--	<2.0	--	440	77	25	1,200	--	--	4,800	8,100	**4,800**	--
	12/12/2024	2.2	**1,700**	**1,400**	<1.0	--	--	<1.0	<5.0	470	79	25	1,100	--	--	180	7,300	**4,000**	7.4 HF
MW13	10/24/2019	13000 E	**19,000**	**1,600**	**4.4**	<20	<20	--	<2.5	3,400	440	37	11,000	--	--	--	--	**40,400**	7.17
	3/12/2020	19	**16,000**	**2,200**	<1.0	<10	<10	--	<5.0	2,500	320	26	7,500	--	--	--	--	**30,000**	7.06
	6/22/2020	17	**14,000**	**1,800**	<1.0	<10	<10	--	<5.0	2,400	340	26	6,100	182.5	<2.000	182.5	47,000	**29,200**	7.36
	9/9/2020	<100	**7,380**	**3,160**	<1.50	--	--	4.76	--	--	--	--	--	--	--	--	--	**15,900**	7.25
	12/1/2020	12.3	**8,030**	**2,420**	<1.50	--	--	1.18	--	--	--	--	--	--	--	--	--	**21,000**	7.32
	2/22/2021	Insufficient Water Volumes to Collect Sample																	
	6/24/2021	9.8	**6,900**	**1,900**	<1.0	--	--	<10	<5.0	1,700	250	20	3,400	--	--	--	--	**16,900**	--
	9/28/2021	11	**8,600**	**2,000**	<1.0	<10	<1.0	--	<5.0	2,000	280	32	4,000	198.9	<2.000	198.9	33,000	**17,200**	7.29
	12/7/2021	Insufficient Water Volumes to Collect Sample																	

ENSOLUM

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - INORGANICS AND GENERAL CHEMISTRY
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	USEPA Method 300.0: Anions								USEPA Method 200.7: Dissolved Metals				Standard Method 2320B: Alkalinity			General Chemistry		
		Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)	Nitrogen, Nitrite as N (mg/L)	Nitrogen, Nitrate as N (mg/L)	Nitrate + Nitrite as N (mg/L)	Phosphorus, Orthophosphate (As P, mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Bicarbonate (As CaCO3) (mg/L)	Carbonate (As CaCO3) (mg/L)	Total Alkalinity (mg/L)	Conductivity (µmhos/cm)	Total Dissolved Solids	pH
NMWQCC Standard		NE	250	600	1.6	1.0	10.0	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1,000	6-9
MW13	3/15/2022	5.3	3,800	2,500	<1.0	--	--	<4.0	<5.0	780	100	16	2,800	249.3	<2.000	249.3	20,000	11,300	7.55
	6/27/2022	5.5	3,500	2,000	0.54	--	--	<2.0	<2.5	630	75	<10	2,600	231.1	<2.000	231.1	20,000	11,000	--
	9/23/2022	3.6	2,800	2,500	0.7	--	--	<2.0	<2.5	710	86	12	2,800	271.9	<2.000	271.9	16,000	8,950	7.55
	12/31/2022	3.8	3,300	2,600	<1.0	--	--	<2.0	<5.0	760	93	12	2,400	--	--	--	--	9,270	7.71
	3/30/2023	2.7	3,000	2,400	<0.50	<2.0	1.8	1.8	<2.5	780	96	11	2,600	240.6	<2.000	240.6	16,000	10,200	7.65
	6/21/2023	Not Sampled																	
	8/17/2023	3.7	3,000	2,600	<0.50	<2.0	2.1	--	<10	730	87	12	2,400	258.2	<2.000	258.2	16,000	8,950	7.72
	12/13/2023	4.0	3,500	2,500	<0.50	<0.50	1.3	--	<2.5	810	120	13	2,300	218.9	<2.000	218.9	17,000	9,140	7.74
	3/11/2024	10.0	8,300	1,700	<1.0	<10	3.0 H	3.0	<5.0	1,400	180	16	3,300	--	--	160	310,000	18,000	--
	6/26/2024	8.3	7,100	2,100	<2.0	<2.0	2.6	2.6	<2.5	1,600	190	17	3,500	--	--	160	27,000	18,000	7.8 HF
	9/11/2024	6.6	5,500 H	1,900	<1.0	--	--	2.5	--	1,300	180	33	3,200	--	--	180	23,000	14,000 E	--
	12/12/2024	<10	5,200	2,000	<10	--	--	<10	<50	850	96	10	1,800	--	--	170	25,000	13,000 E	7.4 HF
MW14	10/24/2019	3.9	2,900	1,900	<0.50	<2.0	5.8	--	<2.5	960	160	12	1,900	--	--	--	--	8,860	7.29
	3/12/2020	3.9	3,000	2,200	<1.0	<2.0	4.5	--	<5.0	930	140	9.2	1,600	--	--	--	--	7,600	7.29
	6/23/2020	4.5	3,400	2,000	<1.0	<1.0	5.1	--	<5.0	940	150	10	1,800	223.0	<2.000	223.00	15,000	8,450	7.56
	9/9/2020	<100	3,640	2,430	<1.50	--	--	6.66	--	--	--	--	--	--	--	--	--	9,050	7.21
	11/30/2020	<10.0	2,700	2,180	<1.50	--	--	4.25	--	--	--	--	--	--	--	--	--	7,860	7.36
	2/22/2021	Insufficient Water Volumes to Collect Sample																	
	6/24/2021	4.0	2,900	2,400	<1.0	--	--	<1.0	<5.0	910	130	14	2,200	--	--	--	--	7,810	--
	9/28/2021	Insufficient Water Volumes to Collect Sample																	
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/17/2022	2.8	1,900	2,800	<1.0	--	--	<2.0	<5.0	760	95	12	1,900	225.6	<2.000	225.6	13,000	7,580	7.83
	6/28/2022	3.1	2,200	2,300	0.78	--	--	<2.0	<2.5	810	99	12	2,000	216.5	<2.000	216.5	14,000	8,060	--
	9/23/2022	Insufficient Water Volumes to Collect Sample																	
	12/31/2022	Insufficient Water Volumes to Collect Sample																	
	3/30/2023	Insufficient Water Volumes to Collect Sample																	
	6/21/2023	Insufficient Water Volumes to Collect Sample																	
	8/17/2023	Insufficient Water Volumes to Collect Sample																	
	12/12/2023	Insufficient Water Volumes to Collect Sample																	
	3/11/2024	Insufficient Water Volumes to Collect Sample																	
	6/25/2024	Insufficient Water Volumes to Collect Sample																	
	9/11/2024	Insufficient Water Volumes to Collect Sample																	
	12/12/2024	Insufficient Water Volumes to Collect Sample																	
MW15	10/24/2019	2.7	1,600	1,700	<0.50	<0.50	2.1	--	<2.5	720	130	9.5	1,400	--	--	--	--	6,370	7.45
	3/12/2020	1.3	730	2,200	<1.0	<2.0	<2.0	--	<5.0	590	91	6.7	720	--	--	--	--	4,300	7.27
	6/23/2020	1.3	560	2,000	<1.0	<1.0	1.7	--	<5.0	520	89	6.7	670	232.8	<2.000	232.8	5,400	4,500	7.70
	9/9/2020	<100	650	2,750	0.810	--	--	1.72	--	--	--	--	--	--	--	--	--	3,790	7.14
	12/2/2020	<100	758	2,060	0.822	--	--	2.24	--	--	--	--	--	--	--	--	--	4,670	7.29
	2/22/2021	<100	630	2,390	<1.50	--	--	2.03	--	--	--	--	--	--	--	--	--	4,170	7.21
	6/24/2021	1.2	490	2,200	<1.0	--	--	1.1	<5.0	520	88	10.0	690	--	--	--	--	3,850	--
	9/27/2021	1.3	430	2,500	<1.0	--	--	1.8	<5.0	530	85	13.0	560	219.4	<2.000	219.4	4,900	3,990	7.29
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/16/2022	1.1	360	2,000	<1.0	--	--	1.2	<5.0	550	80	11.0	550	216.8	<2.000	216.8	5,000	4,180	7.63
	6/28/2022	0.98	430	2,200	1.2	--	--	<1.0	<2.5	570	83	13.0	580	215.0	<2.000	215.0	4,900	4,030	--
	9/23/2022	1.0	480	2,100	1.2	--	--	<1.0	<2.5	600	82	14.0	610	221.8	<2.000	221.8	5,000	3,820	7.43
	12/31/2022	<1.0	500	2,100	<1.0	--	--	<1.0	<5.0	590	80	12.0	630	--	--	--	--	4,050	7.49
	3/30/2023	0.84	540	2,100	<0.50	<0.50	0.69	0.69	<2.5	580	75	7.8	630	212.7	<2.000	212.7	5,200	3,740	7.50
	6/21/2023	1.2	530	2,000	<1.0	<1.0	<1.0	<1.0	<5.0	610	77	8.2	640	220.8	<2.000	220.8	5,400	4,150	7.28
	8/16/2023	1.1	570	2,000	<0.50	<0.50	<0.50	--	<10	600	77	7.7	650	222.4	<2.000	222.4	5,500	4,440	7.56
	12/12/2023	1.1	740	2,200	0.57	<0.50	0.63	--	<2.5	590	80	11	660	213.9	<2.000	213.9	5,600	4,300	7.65
	3/11/2024	1.3	630	2,000	<1.0	<1.0	<1.0	<1.0	<5.0	580	76	8.1	680	--	--	210	5,500	4,600	--
	6/25/2024	1.1	660	2,100	0.66	<2.0	0.80 H	0.8	<2.5	630	77	10	760	--	--	220	5,800	4,700	7.8 HF
	9/12/2024	1.2	720	2,200	<1.0	--	--	<2.0	--	630	80	9.2	760	--	--	230	5,900	4,600	--
	12/12/2024	1.3	640	2,100	1.1	--	--	<1.0	<5.0	630	75	9.1	780	--	--	210	5,600	4,200	7.3 HF
MW17	2/11/2020	2.5	1,900	2,300	<1.0	<1.0	2.7	--	<5.0	590	87	7.6	1,500	--	--	--	9,000	6,860	7.40
	3/12/2020	2.3	1,700	2,500	<1.0	<2.0	2.6	--	<5.0	590	87	6.7	1,400	--	--	--	--	6,570	7.41
	6/22/2020	2.2	1,500	2,400	<1.0	2.1	2.1	--	<5.0	550	82	7.0	1,300	242.0	<2.000	242.0	8,200	5,900	7.59
	9/9/2020	<100	2,650	3,170	0.862	--	--	1.93	--	--	--	--	--	--	--	--	--	7,650	7.41
	12/1/2020	<100	6,320	2,280	0.603	--	--	0.472	--	--	--	--	--	--	--	--	--	10,100	7.36
	2/22/2021	<100	7,210	2,130	<1.50	--	--	0.221	--	--	--	--	--	--	--	--	--	17,900	7.37
	6/24/2021	Insufficient Water Volumes to Collect Sample																	
	9/27/2021	Insufficient Water Volumes to Collect Sample																	
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/14/2022	Insufficient Water Volumes to Collect Sample																	
	6/28/2022	Insufficient Water Volumes to Collect Sample																	
	9/23/2022	Insufficient Water Volumes to Collect Sample																	
	12/31/2022	Insufficient Water Volumes to Collect Sample																	
	3/30/2023	Insufficient Water Volumes to Collect Sample																	
	6/21/2023	Insufficient Water Volumes to Collect Sample																	
	8/17/2023	Insufficient Water Volumes to Collect Sample																	
	12/12/2023	Insufficient Water Volumes to Collect Sample																	
	3/11/2024	Insufficient Water Volumes to Collect Sample																	
	6/25/2024	Insufficient Water Volumes to Collect Sample																	
	9/11/2024	Insufficient Water Volumes to Collect Sample																	
	12/12/2024	Insufficient Water Volumes to Collect Sample																	
MW18	2/11/2020	11	8,200	2,300	<1.0	<10	1.6	--	<5.0	1,400	230	25	5,000	--	--	--	32,000	18,600	7.45
	3/12/2020	22	18,000	2,200	<1.0	<20	<20	--	<5.0	2,200	320	33	9,200	--	--	--	--	7,600	7.29
	6/22/2020	16	10,000	2,300	<1.0	<10	<10	--	<5.0	1,600	260	29	6,700	229.6	<2.000	229.6	47,000	21,800	7.33
	9/9/2020	<100	8,400	2,670	<1.50	--	--	2.97	--	--	--	--	--	--	--	--	--	17,600	7.04
	12/1/2020	<10	5,730	2,360	<1.50	--	--	3.28	--	--	--	--	--	--	--	--	--	12,700	7.26
	2/22/2021	<100	5,300	2,640	<1.50	--	--	3.32	--	--	--	--	--	--	--	--	--	12,400	7.25

ENSOLUM

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - INORGANICS AND GENERAL CHEMISTRY
Salty Dog Water Gathering System
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	USEPA Method 300.0: Anions								USEPA Method 200.7: Dissolved Metals				Standard Method 2320B: Alkalinity			General Chemistry		
		Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)	Nitrogen, Nitrite as N (mg/L)	Nitrogen, Nitrate as N (mg/L)	Nitrate + Nitrite as N (mg/L)	Phosphorus, Orthophosphate (As P, mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Bicarbonate (As CaCO3) (mg/L)	Carbonate (As CaCO3) (mg/L)	Total Alkalinity (mg/L)	Conductivity (µmhos/cm)	Total Dissolved Solids	pH
NMWQCC Standard		NE	250	600	1.6	1.0	10.0	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1,000	6-9
MW18	6/28/2021	3	1,900	2,200	<1.0	--	--	2.50	<5.0	600	87	7	1,400	--	--	--	--	6,750	--
	9/27/2021	4.3	3,300	2,600	<1.0	<1.0	2.6	--	<5.0	920	150	21	2,000	216.6	<2.000	216.6	15,000	7,890	7.25
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/14/2022	6.2	4,700	2,500	<1.0	--	--	5.0	<5.0	870	130	21	3,200	235.7	<2.000	235.7	23,000	10,500	7.64
	6/27/2022	5.8	3,700	2,200	<0.50	--	--	4.9	<2.5	800	120	18	3,100	235.8	<2.000	235.8	20,000	11,000	--
	9/23/2022	4.3	3,100	2,000	0.88	--	--	3.3	<2.5	870	130	20	2,800	222.6	<2.000	222.6	16,000	8,630	7.34
	12/31/2022	4.2	3,400	2,200	<1.0	--	--	3.4	<5.0	860	130	14	2,000	--	--	--	--	8,760	7.57
	3/30/2023	2.9	2,900	2,100	<0.50	<2.0	3.3	3.3	<2.5	820	120	10	2,000	221.9	<2.000	221.9	15,000	9,060	7.52
	6/21/2023	<10	2,400	2,800	<10	<10	<10	<10	<50	680	88	12	2,400	255.3	<2.000	255.3	16,000	8,050	7.47
	8/17/2023	3.6	2,800	2,600	<0.50	<2.0	4.0	--	<10	630	85	11	2,400	249.7	<2.000	249.7	16,000	8,900	7.67
	12/12/2023	4.5	3,800	2,500	<0.50	<0.50	4.1	--	<2.5	770	140	22	2,700	205.9	<2.000	205.9	19,000	10,300	7.82
	3/11/2024	13	10,000	1,900	<1.0	<10	3.4	3.4	<5.0	1,900	300	22	4,100	--	--	180	35,000	20,000	--
	6/25/2024	11	9,000	1,900	<2.0	<2.0	5.2 H	5.2	<2.5	2,000	290	27	4,600	--	--	190	33,000	24,000 E	7.6 HF
	9/11/2024	7.4	6,900	2,100	<1.0	--	--	4.2	--	1,300	210	37	3,300	--	--	200	25,000	15,000	--
	12/12/2024	<10	5,100	2,400	<10	--	--	<10	<50	800	120	13	2,000	--	--	210	26,000	14,000	7.3 HF
MW20	2/11/2020	12	8,300	2,500	<1.0	<10	1.9	--	<5.0	970	190	23	5,800	--	--	--	32,000	19,300	7.26
	3/13/2020	9.2	7,300	2,500	<1.0	<10	<10	--	<5.0	880	180	17	4,600	--	--	--	--	13,800	7.30
	6/23/2020	4.9	3,400	2,300	<1.0	<10	2.0	--	<5.0	550	120	12	2,600	248.1	<2.000	248.1	16,000	10,200	7.69
	9/9/2020	<100	3,120	2,860	<1.50	--	--	1.61	--	--	--	--	--	--	--	--	--	8,650	7.30
	12/2/2020	<10.0	3,100	2,420	<1.50	--	--	1.76	--	--	--	--	--	--	--	--	--	8,480	7.35
	2/22/2021	<100	2,730	2,530	<1.50	--	--	1.67	--	--	--	--	--	--	--	--	--	8,020	7.24
	6/24/2021	2.8	1,700	2,300	<1.0	--	--	<1.0	<5.0	500	110	13.0	1600	--	--	--	--	7,010	--
	9/27/2021	Insufficient Water Volumes to Collect Sample																	
	12/7/2021	Insufficient Water Volumes to Collect Sample																	
	3/16/2022	1.7	920	2,100	<1.0	--	--	1.3	<5.0	500	93	14.0	980	228.8	<2.000	228.8	7,000	5,030	7.53
	6/27/2022	Insufficient Water Volumes to Collect Sample																	
	9/23/2022	Insufficient Water Volumes to Collect Sample																	
	12/31/2022	Insufficient Water Volumes to Collect Sample																	
	3/30/2023	Insufficient Water Volumes to Collect Sample																	
	6/21/2023	Insufficient Water Volumes to Collect Sample																	
	8/17/2023	Insufficient Water Volumes to Collect Sample																	
	12/12/2023	Insufficient Water Volumes to Collect Sample																	
	3/11/2024	Insufficient Water Volumes to Collect Sample																	
	6/25/2024	Insufficient Water Volumes to Collect Sample																	
	9/11/2024	Insufficient Water Volumes to Collect Sample																	
	12/12/2024	Insufficient Water Volumes to Collect Sample																	
MW21 (1)	2/6/2020	1.1	360	2,200	<1.0	<1.0	<1.0	--	<5.0	540	76	<10.0	650	--	--	--	5,100	4,150	7.15
MW22 (1)	2/7/2020	<1.0	310	2,100	<1.0	<1.0	<1.0	--	<5.0	650	94	23	540	--	--	--	4,900	4,490	7.62
MW23 (1)	2/7/2020	<1.0	410	1,900	<1.0	<1.0	<1.0	--	<5.0	680	110	19	460	--	--	--	5,000	5,200	6.85
MW24 (1)	2/15/2020	<1.0	240	2,100	<1.0	<1.0	<1.0	--	<5.0	510	66	<10.0	530	--	--	--	4,400	3,860	7.24
MW27	6/21/2023	Insufficient Water Volumes to Collect Sample																	
	8/17/2023	Insufficient Water Volumes to Collect Sample																	
	12/12/2023	1.1	790	2,200	0.53	<0.50	0.50	--	<2.5	620	91	17	690	224.6	<2.000	224.6	5,800	4,370	7.78
	3/11/2024	1.4	830	2,100	<1.0	<1.0	<1.0	<1.0	<5.0	590	75	9.7	710	--	--	220	5,800	4,500	--
	6/25/2024	1.3	780	2,100	0.66	<2.0	0.56 H	0.56	<2.5	740	91	20	800	--	--	220	6,100	5,100	7.8 HF
	9/12/2024	1.2	730	2,000	<1.0	--	--	<2.0	--	630	76	12	750	--	--	220	6,000	4,000	--
	12/12/2024	1.4	710	2,100	1.1	--	--	<1.0	<5.0	1,300	180	18	3,300	--	--	220	5,900	4,800	7.4 HF
MW28	6/22/2023	2.9	2,200	2,500	<1.0	<1.0	1.4	1.4	<5.0	670	95	13	1,800	242.7	<2.000	242.7	13,000	7,500	7.43
	8/17/2023	3.0	2,100	2,300	<0.50	<2.0	1.5	--	<10	620	87	13	1,900	251.5	<2.000	251.5	13,000	7,850	7.69
	12/12/2023	2.4	2,000	2,400	0.65	<0.50	1.4	--	<2.5	590	92	15	1,700	233.9	<2.000	233.9	12,000	6,510	7.84
	3/11/2024	2.9	2,200	2,400	<1.0	<1.0	1.4 H	1.4	<5.0	630	87	11	1,600	--	--	220	9,900	6,800	--
	6/25/2024	3.6 F1	2,900	2,400	0.59 F1	<2.0	2.2 H F1	2.2	<2.5	880	120	18	2,200	--	--	240	16,000	9,600	7.8 HF
	9/11/2024	5.1	4,100	2,300	<1.0	--	--	2.2	--	980	160	25	2,400	--	--	230	18,000	10,000 E	--
	12/12/2024	7.5	5,700	2,200	2.7	--	--	2.7	<5.0	570	79	7.8	590	--	--	200	25,000	13,000 E	7.3 HF
MW29	6/22/2023	2.6	1,800	2,200	<1.0	<1.0	<1.0	<1.0	<5.0	490	71	9.5	1,700	251.1	<2.000	251.1	9,300	6,470	7.25
	8/17/2023	2.8	1,900	2,200	0.55	<2.0	<0.50	--	<10	530	69	11	1,800	254.0	<2.000	254	12,000	6,350	7.70
	12/12/2023	2.8	2,400	2,500	0.71	<0.50	<0.50	--	<2.5	590	88	12	1,900	245.6	<2.000	245.6	14,000	7,780	7.76
	3/11/2024	2.9	2,000	2,400	<1.0	<1.0	<1.0	<1.0	<5.0	510	81	10	1,700	--	--	240	9,700	7,000	--
	6/25/2024	2.5	2,000	2,400	0.72	<2.0	<0.50	<2.0	<2.5	650	85	14	1,800	--	--	250	11,000	7,300	7.8 HF
	9/11/2024	2.3	1,900	2,300	<1.0	--	--	<2.0	--	590	84	16	1,500	--	--	240	12,000	7,000	--
	12/12/2024	3.9	2,900	2,500	2.0	--	--	<1.0	<5.0	600	76	8.5	720	--	--	230	16,000	8,600	7.3 HF
MW30	6/22/2023	1.1	480	2,000	<1.0	<1.0	<1.0	<1.0	<5.0	540	74	9.3	700	286.1	<2.000	286.1	5,400	4,610	7.61
	8/16/2023	1.0	360	2,100	<0.50	<0.50	<0.50	--	<10	600	84	10	720	277.5	<2.000	277.5	5,200	42,500*	7.81
	12/13/2023	0.93	400	2,400	0.66	<0.50	<0.50	--	<2.5	540	78	9.4	690	254.7	<2.000	254.7	5,100	3,770	7.83
	3/11/2024	1.10	380	2,100	<1.0	<1.0	<1.0	<1.0	<5.0	530	80	8.4	620	--	--	230	5,100	3,600	--
	6/26/2024	0.95	380	2,000	0.74	<0.50	<0.50	<0.50	<2.5	700	86	15	710	--	--	250	5,100 B	4,400	7.5 HF
	9/11/2024	Insufficient Water Volumes to Collect Sample																	
	12/12/2024	Insufficient Water Volumes to Collect Sample																	
MW31	6/22/2023	<1.0	320	2,000	<1.0	<1.0	<1.0	<1.0	<5.0	530	74	7.9	600	216.3	<2.000	216.3	4,900	4,110	7.42
	8/16/2023	0.99	370	2,100	0.69	<0.50	0.91	--	<10	570	82	8.5	670	217.6	<2.000	217.6	5,000	39,500*	7.79
	12/13/2023	0.89	390	2,300	0.59	<0.50	0.51	--	<2.5	570	85	15	580	205.5	<2.000	205.5	4,900	3,790	7.81
	3/11/2024	1.10	360	2,100	<1.0	<1.0	<1.0	<1.0	<5.0	510	71	6.8	540	--	--	220	4,700	3,100	--
	6/26/2024	0.94	360	1,900	0.60	<0.50	<0.50	<0.50	<2.5	610	80	9.9	640	--	--	220	5,000 B	4,700	7.5 HF
	9/12/2024	<1.0	390	2,000	<1.0	--	--	<2.0	--	570	82	9.4	580	--	--	230	4,900	4,000	--
	12/12/2024	1.10	440	2,100	1.1	--	--	<1.0	<5.0	1,100	180	17	3,300	--	--	220	5,000	3,800	7.5 HF

Notes:

(1): Groundwater samples collected from a temporary well screen placed in the open boring.

mg/L: milligrams per liter

µmhos/cm: micromhos per centimeter

NMWQCC: New Mexico Water Quality Control Commission

--: not analyzed

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

**: anomalous data*

*Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code*

ENSOLUM

APPENDIX A

Agency Correspondence

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 408589
Date: Wednesday, December 4, 2024 1:31:29 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#) nCS1916853082.

The sampling event is expected to take place:

When: 12/09/2024 @ 09:00
Where: N-18-29N-13W 0 FNL 0 FEL (36.721261,-108.247803)

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

Drilling and sampling work will take place between 12/9/2024 and 12/13/2024 beginning at 8:30 AM each day

Additional Instructions: Salty Dog Water Transfer, coordinates 36.721350, -108.247862

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

Laboratory Analytical Reports

APPENDIX B

2024 Drilling Boring Logs

ENSOLUM

Project No.: 07A1988013	Client: Hilcorp Energy Company
Drilling Company: Cascade	Project Name: Salty Dog Water Transfer
Driller: Manny	Project Location: San Juan Co. NM
Drilling Equip: TerraSonic	Project Manager: S. Hyde
Logged By: W. Weichert	Borehole Diameter: 8"
	Casing Diameter: 2" PVC
	Well Materials: 10/20 Sand | 0.010 Slot
	Surface Completion:
	Drilling Method: Sonic

BOREHOLE ID

MW-32 (Proposed MW-32)

Date: 12-11-2024 → 12-12-2024

Ground Surface Elevation:

Top of Casing Elevation:

Latitude:

Longitude:

Total Depth:

DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	Chloride (mg/kg)	PID (PPM)	MOISTURE	USCS	GEOLOGIC DESCRIPTION	WELL COMPLETION
0–5					Dry	SP	POORLY GRADED SAND- tan Medium w/ Some fine + Coarse, Moderate to Well Sorted, loose + Unconsolidated, few Clay lenses, Dry.	
5–10					Dry	SM	SILTY SAND- tan to light brown, Very fine to fine, Well Sorted, Unconsolidated, Dry.	
10–11					Dry			
11–14						GM	GRAVELLEY SILT- tan to light brown Silt + Very fine Sand w/ Well rounded Cobbles up to 3.5" loose, Unconsolidated Dry.	
14–15						SM	SILTY SAND- As Above	
15			308 Mg/Kg	0.0 PPM	Dry			
16–17						CL	CLAY - Brown, Caliche Veins	
17–18							SILTY SAND- Gray-tan, Very fine to fine, Well Sorted, loose, dry.	
18–19							* Head Tilt Cylinder Broke.	
20			397 Mg/Kg	0.0 PPM				

Page:

ENSOLUM

Client: Hilcorp
Project Name: Salty Dog Water Transfer
Project Location: San Juan Co. NM
Project Manager: S. Hyde

BOREHOLE ID: MW-32
Date: 12/12/24

DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	Chloride (mg/kg)	PID (PPM)	MOISTURE	USCS	GEOLOGIC DESCRIPTION	WELL COMPLETION
21								
22		10%		.	dry	SM	Silty sand - tan; silt + very fine - fine sand, well sorted, unconsolidated	
23								
24								
25			156					
26						GP		
27			[illegible]	0.3	wet	wet	Sand with silt and gravel - orange to tan, subrounded, fine to coarse sand, cobbles @ 27.5', unconsolidated	
28			208.8					
29			[illegible]	0.1	wet	GP wet	sandy gravel - brown to gray, rounded, gravel to cobble, unconsolidated	
30								
31							siltstone - dry grey, dense	
32								
33								
34								
35							TD	
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
50								

ENSOLUM

	Client: Hilcorp Energy Company	BOREHOLE ID	
	Project Name: Salty Dog Water Transfer	MW-33 (MW-34 Proposed)	
	Project Location: San Juan Co. NM		
	Project Manager: S. Hyde	Date: 12-2-24	
Project No.: 07A1988013	Borehole Diameter:	Ground Surface Elevation:	
Drilling Company: Cascade	Casing Diameter:	Top of Casing Elevation:	
Driller:	Well Materials:	Latitude:	
Drilling Equip:	Surface Completion:	Longitude:	
Logged By:	Drilling Method:	Total Depth:	

DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	Chloride (mg/kg)	PID (PPM)	MOISTURE	USCS	GEOLOGIC DESCRIPTION	WELL COMPLETION
0–5		100%			Slight Moist	SW/GW	WELL GRADED GRAVELLY SAND- light brown to tan, Fine to Coarse Sand w/ gravel + Cobbles up to 4", Poorly Sorted / Well graded, loose + Unconsolidated, Slightly Moist.	
5–10		100%			Dry	SP	POORLY GRADED SAND- tan to light brown, Medium, little Silt + Clay, well Sorted, Clay lens @ 9', loose & unconsolidated. Slightly Moist / Dry.	
10–13		100%				SC	SILTY / CLAYEY SAND- light brown, as above more Clay + fines	
14					▽			
15–20	1 SAMPLE		1168	0.0 PPM	Wet	CH	FAT CLAY - Brown, Soft, Consolidated & highly plastic Clay, Wet, Hydrocarbon Staining & Odor Observed @ 20' *Water Encountered @ 14'	

Page:

ENSOLUM

Client: Hilcorp
Project Name: Salty Dog Water Transfer
Project Location: San Juan Co. NM
Project Manager: S. Hyde

BOREHOLE ID

Date:

DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	Chloride (mg/kg)	PID (PPM)	MOISTURE	USCS	GEOLOGIC DESCRIPTION	WELL COMPLETION
25		SAMPLE		0.0 PPM	Wet		@ 22.5' - POORLY GRADED SAND. Brown, Medium, Well sorted / Poorly graded, Soft + Unconsolidated, Wet.	
26								
27								
28								
29								
30		SAMPLE					BED ROCK @ 24' SAND - Gray, Very Coarse, Well Sorted, rounded, moist to wet	
31				0.0 PPM	Dry			
32								
33								
34							Siltstone - gray, hard, Consolidated, Friable, Dry	
35				0.0 PPM			TD @ 35'	
36							Screen 9-24 ft	
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

ENSOLUM

Client: Hilcorp Energy Company	BOREHOLE ID: MW-34 (Proposed MW-36)
Project Name: Salty Dog Water Transfer	
Project Location: San Juan Co. NM	
Project Manager: S. Hyde	Date: 12-11-2024
Project No.: 07A1988013	Borehole Diameter: 8"
Drilling Company: Cascade	Casing Diameter: 2" PVC
Driller: Manny	Well Materials: 10/20 Sand / 0.010 slot
Drilling Equip: Terra Sonic	~~Surface~~ Completion: 10-25 ft.
Logged By: W. Weichert	Drilling Method: Sonic
	Ground Surface Elevation:
	Top of Casing Elevation:
	Latitude:
	Longitude:
	Total Depth: 28 ft

DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	Chloride (mg/kg)	PID (PPM)	MOISTURE	USCS	GEOLOGIC DESCRIPTION	WELL COMPLETION
0–5					Dry	SM	SILTY SAND – light tan – buff, Very fine, Well Sorted / Poorly graded, loose + Unconsolidated, Dry.	
5–8					Dry	SC	CLAYEY SAND – Brown to dark brown, Very fine, Well Sorted, Unconsolidated, Slightly moist to dry, as above darker w/ more clay	5 ft; 8 ft
8–10						SM	SILTY SAND – tan, very fine to fine, Well Sorted, Unconsolidated, slightly moist to dry.	10 ft
10–15					Dry	SC	CLAYEY SAND – As above, Dry. Brown, Very fine to fine, Well sorted, darker than above.	
15						XX	Becoming coarser w/ gray	
15–16	Sample		156.8 mg/kg	1.4 ppm	Dry			
16–18					Dry	SW/GW	~~POORLY~~ WELL GRADED SAND w/ GRAVEL – Gray to black, Coarse to Very Coarse w/ occasional rounded cobble, Mod – well Sort, decomposing organic odor "swampy" Very moist to Wet, large cobbles!	
18					▽			
19–20			229.6 mg/kg	5.2 ppm	WET			

Page:

ENSOLUM

Client: Hilcorp
Project Name: Salty Dog Water Transfer
Project Location: San Juan Co. NM
Project Manager: S. Hyde

BOREHOLE ID

Date:

DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	Chloride (mg/kg)	PID (PPM)	MOISTURE	USCS	GEOLOGIC DESCRIPTION	WELL COMPLETION
20				7.1 ppm		GW/SW	WELL GRADED GRAVEL + SAND - Medium to dark gray / blackish, Coarse w/ larger Well rounded Cobbles up to 6", Poorly sorted, becoming clay rich matrix @ 22.5 ft. Swampy odor. Wet,	25 ft
24								
26			229.6 Mg/kg	8.0 ppm	WET		* Bedrock Contact @ 26'	26 ft
28					DRY	ML	SILTSTONE - light gray, hard but friable, fissle, non-plastic, Very Dry.	
30							TD @ ~~28~~ 28 ft * Driller Corrected	28 ft. ~~30 ft~~
32								
34								
36								
38								
40								
42								
44								
46								

Page:

ENSOLUM

Client: Hilcorp Energy Company
Project Name: Salty Dog Water Transfer
Project Location: San Juan Co. NM
Project Manager: S. Hyde

BORING LOG NUMBER: MW 35
Project No.:

Date Sampled: 12/12/24
Drilled By: Cascade - Terrasonic Rig
Driller: Manny
Logged By: S. Mahanay

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

Borehole Diameter: 8"
Casing Diameter: 2" PVC
Well Materials: 10/20 sand, 0.010 slot screen
Surface Completion: stickup
Boring Method: Sonic

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0–5	0-2.5, 2.5-5			dry	SP	Poorly graded sand with silt - tan Medium with minor fine & coarse Moderately sorted, unconsolidated, dry	
5–10	5-6, 6-8, 8-10		150	dry	GM	Gravely silt with fine to very fine sand, rounded to subrounded cobbles & gravel. Well sorted unconsolidated, dry.	
10–12				dry		Interbedded siltstone with very fine sand & silt, tan, dry.	
12–15			156	moist		Same as above - color changes from tan to grey to blue grey. Moist	
15–17.5	0%						
17.5–20	15-17.5			wet	CL / SP	Interbedded massive clay, grey, dense with minor silt & fine sand, moist (6"-1') with medium to coarse grained sand subrounded, grey-black, wet. poorly graded, minor clay lenses with high plasticity. poorly consolidated	
20–22.5	20-22.5						
22.5–25	22.5-25						

ENSOLUM

Client:
Project Name:
Project Location:
Project Manager:

BORING LOG NUMBER: MW-35
Project No.:

Date Sampled:
Drilled By:
Driller:
Logged By:

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

Borehole Diameter:
Casing Diameter:
Well Materials:
Surface Completion:
Boring Method:

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25							
26				1/SP	wet	consolidated siltstone (25-26) followed by fine-coarse sand, poorly graded, grey, unconsolidated (26-27.5)	
27							
28			1/56		moist	grey consolidated siltstone dense, minor fine-medium sand, moist.	drilling hot.
29							
30							
31						same as above- siltstone dry grey	
32							
33							
34							
35					TD		
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

Notes: Potentially water bearing zones within the sand & siltstone (~16' bgs - 27' bgs). The coarse sand units were located @ 26'-27' bgs, 22'-23' bgs, and 17'-18' bgs & ranged in thickness from 6"-8"

ENSOLUM

Client: Hilcorp Energy Company
Project Name: Salty Dog Water Transfer
Project Location: San Juan Co NM
Project Manager: S. Hyde

BORING LOG NUMBER MW-36

Project No.:

Date Sampled: 12/6/24
Drilled By: Cascade
Driller: Manny
Logged By: S. Mahoney

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

Borehole Diameter: 8"
Casing Diameter: 2" PVC
Well Materials: 10/20 sand; 0.010 slot
Surface Completion: stickup
Boring Method: Sonic

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0–10		dry			SP	well graded sand, fine-medium grained, tan, unconsolidated & loose, ~~poorly~~ moderately sorted, minor silt	
10–15		10% recovery			SP	same as above; increase in grain size fine-coarse	
15–17				<1.56 0.7			
17–25		dry		<1.56 0.0	GW	sandy gravel with silt, well ~~poorly~~ graded, medium sand with pebbles to cobbles tan, unconsolidated, rounded-subrounded.	

ENSOLUM

Client:		BORING LOG NUMBER MW-36
Project Name:		
Project Location:		Project No.:
Project Manager:		
Date Sampled:	Ground Surface Elevation:	Borehole Diameter:
Drilled By:	Top of Casing Elevation:	Casing Diameter:
Driller:	North Coordinate:	Well Materials:
Logged By:	West Coordinate:	Surface Completion:
		Boring Method:

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25–26		<1,56 0.0			GW	same as above	
26–27			dry				
27–28					—	~~sandy siltstone~~, sandstone moist (due to water added for drilling) medium grain with minor silt	
28–29							
29–30							
30–31		<1,56 0.7					
31–32			dry				
32–33					—	same sandstone, color change to grey/~~blue~~ grey/green.	
33–34							
34–35							
35–36							
36–37							
37–38							
38–39							
39–40							
40–41		<1,56 0.0					
41–42							
42–43							
43–44							
44–45							
45–46		<1,56 0.0					
46–47							
47–48							
48–49							
49–50		<1,56 0.0			—	Same as above	

ENSOLUM

Client: Hilcorp Energy Company
Project Name: Salty Dog Water Flood
Project Location: San Juan Co NM
Project Manager: S. Hyde

BORING LOG NUMBER MW-36
Project No.:

Date Sampled: 12/13/24
Drilled By: Cascade
Driller: Manny
Logged By: S. Mahanay

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

Borehole Diameter: 8"
Casing Diameter: 2" PVC
Well Materials: 10/20 Sand 0.010 Slot
Surface Completion: Stickup
Boring Method: Sonic

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
50							
51			Wet			Same as above, increased moisture	
52							
53							
54							
55		2156 0.0	Wet			Interbedded sandstone with clayey silt, moist, grey, low plasticity	
56							
57							
58						Note: Possible chlorite present with increased concentrations from 32'-55'. Attributes to greenish tint of sandstone	
59							
60						dry siltstone	
61						TD	
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							

ENSOLUM

APPENDIX C

Soil Sample Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/13/2025 12:09:33 PM Revision 1

JOB DESCRIPTION

Salty Dog Water Transfer

JOB NUMBER

885-17034-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

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
1/13/2025 12:09:33 PM
Revision 1

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

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Laboratory Job ID: 885-17034-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: Salty Dog Water Transfer

Job ID: 885-17034-1

Job ID: 885-17034-1 Eurofins Albuquerque

Job Narrative
885-17034-1

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

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

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

Receipt
The samples were received on 12/14/2024 7:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8°C and 2.8°C.

Client requested update. Lab sample ID's 13 through 15 (MW-37@30, MW-37@47.5, and MW-37@55) were mislabled during site work. Sample ID has been updated to the following:

- Lab 13: MW-36@30
- Lab 14: MW-36@47.5
- Lab 15: MW-36@55

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: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-33@20'
Date Collected: 12/10/24 15:00
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		12/16/24 14:32	12/19/24 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*12/16/24 14:32*	*12/19/24 12:56*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/16/24 14:32	12/19/24 01:08	1
Ethylbenzene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 01:08	1
Toluene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 01:08	1
Xylenes, Total	ND		0.097		mg/Kg		12/16/24 14:32	12/19/24 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*12/16/24 14:32*	*12/19/24 01:08*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		12/18/24 09:14	12/23/24 19:00	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/18/24 09:14	12/23/24 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*12/18/24 09:14*	*12/23/24 19:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		60		mg/Kg		12/16/24 15:58	12/17/24 11:40	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-33@25'
Date Collected: 12/10/24 15:15
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-2
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		12/16/24 14:32	12/19/24 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*12/16/24 14:32*	*12/19/24 13:18*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		12/16/24 14:32	12/19/24 01:30	1
Ethylbenzene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 01:30	1
Toluene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 01:30	1
Xylenes, Total	ND		0.094		mg/Kg		12/16/24 14:32	12/19/24 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*12/16/24 14:32*	*12/19/24 01:30*	*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		9.8		mg/Kg		12/18/24 09:14	12/23/24 19:10	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		12/18/24 09:14	12/23/24 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*112*		*62 - 134*	*12/18/24 09:14*	*12/23/24 19:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		59		mg/Kg		12/16/24 15:58	12/17/24 11:50	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-33@30'

Date Collected: 12/10/24 15:30
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-3

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		5.0		mg/Kg		12/16/24 14:32	12/19/24 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*12/16/24 14:32*	*12/19/24 13:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/16/24 14:32	12/19/24 01:52	1
Ethylbenzene	ND		0.050		mg/Kg		12/16/24 14:32	12/19/24 01:52	1
Toluene	ND		0.050		mg/Kg		12/16/24 14:32	12/19/24 01:52	1
Xylenes, Total	ND		0.10		mg/Kg		12/16/24 14:32	12/19/24 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*12/16/24 14:32*	*12/19/24 01:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		12/18/24 09:14	12/23/24 19:21	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/18/24 09:14	12/23/24 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*12/18/24 09:14*	*12/23/24 19:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		60		mg/Kg		12/16/24 15:58	12/17/24 12:21	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-34@25'
Date Collected: 12/11/24 11:00
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		12/16/24 14:32	12/19/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*35 - 166*	*12/16/24 14:32*	*12/19/24 14:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/16/24 14:32	12/19/24 02:13	1
Ethylbenzene	ND		0.050		mg/Kg		12/16/24 14:32	12/19/24 02:13	1
Toluene	ND		0.050		mg/Kg		12/16/24 14:32	12/19/24 02:13	1
Xylenes, Total	ND		0.099		mg/Kg		12/16/24 14:32	12/19/24 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*12/16/24 14:32*	*12/19/24 02:13*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		12/18/24 09:14	12/23/24 19:32	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		12/18/24 09:14	12/23/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*12/18/24 09:14*	*12/23/24 19:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**530**		60		mg/Kg		12/16/24 15:58	12/17/24 12:31	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-34@20'
Date Collected: 12/11/24 11:15
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-5
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		4.9		mg/Kg		12/16/24 14:32	12/19/24 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*35 - 166*	*12/16/24 14:32*	*12/19/24 14:23*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/16/24 14:32	12/19/24 02:35	1
Ethylbenzene	ND		0.049		mg/Kg		12/16/24 14:32	12/19/24 02:35	1
Toluene	ND		0.049		mg/Kg		12/16/24 14:32	12/19/24 02:35	1
Xylenes, Total	ND		0.098		mg/Kg		12/16/24 14:32	12/19/24 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*12/16/24 14:32*	*12/19/24 02:35*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		12/18/24 09:14	12/23/24 19:53	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/18/24 09:14	12/23/24 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*12/18/24 09:14*	*12/23/24 19:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		12/16/24 15:58	12/17/24 12:42	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-34@28'

Date Collected: 12/11/24 11:30
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		12/16/24 14:32	12/19/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*12/16/24 14:32*	*12/19/24 14:45*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/16/24 14:32	12/19/24 02:57	1
Ethylbenzene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 02:57	1
Toluene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 02:57	1
Xylenes, Total	ND		0.096		mg/Kg		12/16/24 14:32	12/19/24 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*12/16/24 14:32*	*12/19/24 02:57*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		12/18/24 09:14	12/23/24 20:04	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/18/24 09:14	12/23/24 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*12/18/24 09:14*	*12/23/24 20:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		12/16/24 15:58	12/17/24 12:52	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-32@15'
Date Collected: 12/12/24 17:30
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-7
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		12/16/24 14:32	12/19/24 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*12/16/24 14:32*	*12/19/24 15:07*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		12/16/24 14:32	12/19/24 03:40	1
Ethylbenzene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 03:40	1
Toluene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 03:40	1
Xylenes, Total	ND		0.094		mg/Kg		12/16/24 14:32	12/19/24 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*12/16/24 14:32*	*12/19/24 03:40*	*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		9.7		mg/Kg		12/18/24 09:14	12/23/24 20:14	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/18/24 09:14	12/23/24 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*12/18/24 09:14*	*12/23/24 20:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		59		mg/Kg		12/16/24 15:58	12/17/24 13:02	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-32@20'
Date Collected: 12/12/24 17:25
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-8
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		12/16/24 14:32	12/19/24 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*12/16/24 14:32*	*12/19/24 15:29*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/16/24 14:32	12/19/24 04:02	1
Ethylbenzene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 04:02	1
Toluene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 04:02	1
Xylenes, Total	ND		0.094		mg/Kg		12/16/24 14:32	12/19/24 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*12/16/24 14:32*	*12/19/24 04:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		12/18/24 09:14	12/23/24 20:25	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		12/18/24 09:14	12/23/24 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*12/18/24 09:14*	*12/23/24 20:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		60		mg/Kg		12/16/24 15:58	12/17/24 13:13	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-32@27.5'

Date Collected: 12/12/24 17:35
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-9

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		4.9		mg/Kg		12/16/24 14:32	12/19/24 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*12/16/24 14:32*	*12/19/24 15:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/16/24 14:32	12/19/24 04:24	1
Ethylbenzene	ND		0.049		mg/Kg		12/16/24 14:32	12/19/24 04:24	1
Toluene	ND		0.049		mg/Kg		12/16/24 14:32	12/19/24 04:24	1
Xylenes, Total	ND		0.098		mg/Kg		12/16/24 14:32	12/19/24 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*12/16/24 14:32*	*12/19/24 04:24*	*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		12/18/24 09:14	12/23/24 20:36	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/18/24 09:14	12/23/24 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*12/18/24 09:14*	*12/23/24 20:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		12/16/24 15:58	12/17/24 13:23	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-35@10'
Date Collected: 12/12/24 18:00
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-10
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		4.7		mg/Kg		12/16/24 14:32	12/19/24 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*12/16/24 14:32*	*12/19/24 16:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/16/24 14:32	12/19/24 04:45	1
Ethylbenzene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 04:45	1
Toluene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 04:45	1
Xylenes, Total	ND		0.094		mg/Kg		12/16/24 14:32	12/19/24 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*12/16/24 14:32*	*12/19/24 04:45*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		12/18/24 09:14	12/23/24 20:46	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/18/24 09:14	12/23/24 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*12/18/24 09:14*	*12/23/24 20:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/16/24 15:58	12/17/24 13:33	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-35@15'
Date Collected: 12/12/24 17:55
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		12/16/24 14:32	12/19/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*12/16/24 14:32*	*12/19/24 16:34*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/16/24 14:32	12/19/24 05:07	1
Ethylbenzene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 05:07	1
Toluene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 05:07	1
Xylenes, Total	ND		0.097		mg/Kg		12/16/24 14:32	12/19/24 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*12/16/24 14:32*	*12/19/24 05:07*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		12/18/24 09:14	12/23/24 20:57	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		12/18/24 09:14	12/23/24 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*132*		*62 - 134*	*12/18/24 09:14*	*12/23/24 20:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/16/24 15:58	12/17/24 13:44	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-35@28'
Date Collected: 12/12/24 17:50
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		12/16/24 14:32	12/19/24 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*12/16/24 14:32*	*12/19/24 16:56*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/16/24 14:32	12/19/24 05:29	1
Ethylbenzene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 05:29	1
Toluene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 05:29	1
Xylenes, Total	ND		0.096		mg/Kg		12/16/24 14:32	12/19/24 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*12/16/24 14:32*	*12/19/24 05:29*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		12/18/24 09:14	12/23/24 21:07	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/18/24 09:14	12/23/24 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*12/18/24 09:14*	*12/23/24 21:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/16/24 15:58	12/17/24 13:54	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-36@30'

Date Collected: 12/13/24 14:10
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		12/16/24 14:32	12/19/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*12/16/24 14:32*	*12/19/24 17:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/16/24 14:32	12/19/24 05:50	1
Ethylbenzene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 05:50	1
Toluene	ND		0.048		mg/Kg		12/16/24 14:32	12/19/24 05:50	1
Xylenes, Total	ND		0.096		mg/Kg		12/16/24 14:32	12/19/24 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*12/16/24 14:32*	*12/19/24 05:50*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		12/18/24 09:14	12/23/24 21:18	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/18/24 09:14	12/23/24 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*12/18/24 09:14*	*12/23/24 21:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		12/16/24 15:58	12/17/24 14:25	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-36@47.5'

Date Collected: 12/13/24 14:05
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-14

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		12/16/24 14:32	12/19/24 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*12/16/24 14:32*	*12/19/24 17:39*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		12/16/24 14:32	12/19/24 06:12	1
Ethylbenzene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 06:12	1
Toluene	ND		0.047		mg/Kg		12/16/24 14:32	12/19/24 06:12	1
Xylenes, Total	ND		0.093		mg/Kg		12/16/24 14:32	12/19/24 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*12/16/24 14:32*	*12/19/24 06:12*	*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		9.9		mg/Kg		12/18/24 09:14	12/23/24 21:39	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		12/18/24 09:14	12/23/24 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*12/18/24 09:14*	*12/23/24 21:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/16/24 15:58	12/17/24 14:35	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-36@55'

Date Collected: 12/13/24 14:00
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		12/16/24 14:32	12/19/24 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*12/16/24 14:32*	*12/19/24 18:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/16/24 14:32	12/19/24 06:34	1
Ethylbenzene	ND		0.049		mg/Kg		12/16/24 14:32	12/19/24 06:34	1
Toluene	ND		0.049		mg/Kg		12/16/24 14:32	12/19/24 06:34	1
Xylenes, Total	ND		0.098		mg/Kg		12/16/24 14:32	12/19/24 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*12/16/24 14:32*	*12/19/24 06:34*	*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		9.3		mg/Kg		12/18/24 09:14	12/23/24 21:50	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/18/24 09:14	12/23/24 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*12/18/24 09:14*	*12/23/24 21:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/16/24 15:58	12/17/24 14:46	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

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

Lab Sample ID: MB 885-17859/1-A
Matrix: Solid
Analysis Batch: 18085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17859

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		12/16/24 14:32	12/19/24 10:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*12/16/24 14:32*	*12/19/24 10:23*	*1*

Lab Sample ID: LCS 885-17859/2-A
Matrix: Solid
Analysis Batch: 18085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17859

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	23.2		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*187*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-17859/1-A
Matrix: Solid
Analysis Batch: 18095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17859

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/16/24 14:32	12/18/24 21:53	1
Ethylbenzene	ND		0.050		mg/Kg		12/16/24 14:32	12/18/24 21:53	1
Toluene	ND		0.050		mg/Kg		12/16/24 14:32	12/18/24 21:53	1
Xylenes, Total	ND		0.10		mg/Kg		12/16/24 14:32	12/18/24 21:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*12/16/24 14:32*	*12/18/24 21:53*	*1*

Lab Sample ID: LCS 885-17859/3-A
Matrix: Solid
Analysis Batch: 18095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17859

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.889		mg/Kg		89	70 - 130		
Ethylbenzene			1.00	0.920		mg/Kg		92	70 - 130		
m&p-Xylene			2.00	1.83		mg/Kg		91	70 - 130		
o-Xylene			1.00	0.919		mg/Kg		92	70 - 130		
Toluene			1.00	0.920		mg/Kg		92	70 - 130		
Xylenes, Total			3.00	2.75		mg/Kg		92	70 - 130		

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

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

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

Lab Sample ID: MB 885-18005/1-A
Matrix: Solid
Analysis Batch: 18344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18005

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/18/24 09:14	12/23/24 18:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/18/24 09:14	12/23/24 18:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*12/18/24 09:14*	*12/23/24 18:05*	*1*

Lab Sample ID: LCS 885-18005/2-A
Matrix: Solid
Analysis Batch: 18344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18005

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	60.5		mg/Kg		121	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-17873/1-A
Matrix: Solid
Analysis Batch: 17811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17873

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		12/16/24 15:58	12/16/24 16:27	1

Lab Sample ID: LCS 885-17873/2-A
Matrix: Solid
Analysis Batch: 17811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17873

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.9		mg/Kg		96	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

GC VOA

Prep Batch: 17859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17034-1	MW-33@20'	Total/NA	Solid	5030C	
885-17034-2	MW-33@25'	Total/NA	Solid	5030C	
885-17034-3	MW-33@30'	Total/NA	Solid	5030C	
885-17034-4	MW-34@25'	Total/NA	Solid	5030C	
885-17034-5	MW-34@20'	Total/NA	Solid	5030C	
885-17034-6	MW-34@28'	Total/NA	Solid	5030C	
885-17034-7	MW-32@15'	Total/NA	Solid	5030C	
885-17034-8	MW-32@20'	Total/NA	Solid	5030C	
885-17034-9	MW-32@27.5'	Total/NA	Solid	5030C	
885-17034-10	MW-35@10'	Total/NA	Solid	5030C	
885-17034-11	MW-35@15'	Total/NA	Solid	5030C	
885-17034-12	MW-35@28'	Total/NA	Solid	5030C	
885-17034-13	MW-36@30'	Total/NA	Solid	5030C	
885-17034-14	MW-36@47.5'	Total/NA	Solid	5030C	
885-17034-15	MW-36@55'	Total/NA	Solid	5030C	
MB 885-17859/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-17859/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-17859/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 18085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17034-1	MW-33@20'	Total/NA	Solid	8015M/D	17859
885-17034-2	MW-33@25'	Total/NA	Solid	8015M/D	17859
885-17034-3	MW-33@30'	Total/NA	Solid	8015M/D	17859
885-17034-4	MW-34@25'	Total/NA	Solid	8015M/D	17859
885-17034-5	MW-34@20'	Total/NA	Solid	8015M/D	17859
885-17034-6	MW-34@28'	Total/NA	Solid	8015M/D	17859
885-17034-7	MW-32@15'	Total/NA	Solid	8015M/D	17859
885-17034-8	MW-32@20'	Total/NA	Solid	8015M/D	17859
885-17034-9	MW-32@27.5'	Total/NA	Solid	8015M/D	17859
885-17034-10	MW-35@10'	Total/NA	Solid	8015M/D	17859
885-17034-11	MW-35@15'	Total/NA	Solid	8015M/D	17859
885-17034-12	MW-35@28'	Total/NA	Solid	8015M/D	17859
885-17034-13	MW-36@30'	Total/NA	Solid	8015M/D	17859
885-17034-14	MW-36@47.5'	Total/NA	Solid	8015M/D	17859
885-17034-15	MW-36@55'	Total/NA	Solid	8015M/D	17859
MB 885-17859/1-A	Method Blank	Total/NA	Solid	8015M/D	17859
LCS 885-17859/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	17859

Analysis Batch: 18095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17034-1	MW-33@20'	Total/NA	Solid	8021B	17859
885-17034-2	MW-33@25'	Total/NA	Solid	8021B	17859
885-17034-3	MW-33@30'	Total/NA	Solid	8021B	17859
885-17034-4	MW-34@25'	Total/NA	Solid	8021B	17859
885-17034-5	MW-34@20'	Total/NA	Solid	8021B	17859
885-17034-6	MW-34@28'	Total/NA	Solid	8021B	17859
885-17034-7	MW-32@15'	Total/NA	Solid	8021B	17859
885-17034-8	MW-32@20'	Total/NA	Solid	8021B	17859
885-17034-9	MW-32@27.5'	Total/NA	Solid	8021B	17859
885-17034-10	MW-35@10'	Total/NA	Solid	8021B	17859

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

GC VOA (Continued)

Analysis Batch: 18095 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17034-11	MW-35@15'	Total/NA	Solid	8021B	17859
885-17034-12	MW-35@28'	Total/NA	Solid	8021B	17859
885-17034-13	MW-36@30'	Total/NA	Solid	8021B	17859
885-17034-14	MW-36@47.5'	Total/NA	Solid	8021B	17859
885-17034-15	MW-36@55'	Total/NA	Solid	8021B	17859
MB 885-17859/1-A	Method Blank	Total/NA	Solid	8021B	17859
LCS 885-17859/3-A	Lab Control Sample	Total/NA	Solid	8021B	17859

GC Semi VOA

Prep Batch: 18005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17034-1	MW-33@20'	Total/NA	Solid	SHAKE	
885-17034-2	MW-33@25'	Total/NA	Solid	SHAKE	
885-17034-3	MW-33@30'	Total/NA	Solid	SHAKE	
885-17034-4	MW-34@25'	Total/NA	Solid	SHAKE	
885-17034-5	MW-34@20'	Total/NA	Solid	SHAKE	
885-17034-6	MW-34@28'	Total/NA	Solid	SHAKE	
885-17034-7	MW-32@15'	Total/NA	Solid	SHAKE	
885-17034-8	MW-32@20'	Total/NA	Solid	SHAKE	
885-17034-9	MW-32@27.5'	Total/NA	Solid	SHAKE	
885-17034-10	MW-35@10'	Total/NA	Solid	SHAKE	
885-17034-11	MW-35@15'	Total/NA	Solid	SHAKE	
885-17034-12	MW-35@28'	Total/NA	Solid	SHAKE	
885-17034-13	MW-36@30'	Total/NA	Solid	SHAKE	
885-17034-14	MW-36@47.5'	Total/NA	Solid	SHAKE	
885-17034-15	MW-36@55'	Total/NA	Solid	SHAKE	
MB 885-18005/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-18005/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 18344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17034-1	MW-33@20'	Total/NA	Solid	8015M/D	18005
885-17034-2	MW-33@25'	Total/NA	Solid	8015M/D	18005
885-17034-3	MW-33@30'	Total/NA	Solid	8015M/D	18005
885-17034-4	MW-34@25'	Total/NA	Solid	8015M/D	18005
885-17034-5	MW-34@20'	Total/NA	Solid	8015M/D	18005
885-17034-6	MW-34@28'	Total/NA	Solid	8015M/D	18005
885-17034-7	MW-32@15'	Total/NA	Solid	8015M/D	18005
885-17034-8	MW-32@20'	Total/NA	Solid	8015M/D	18005
885-17034-9	MW-32@27.5'	Total/NA	Solid	8015M/D	18005
885-17034-10	MW-35@10'	Total/NA	Solid	8015M/D	18005
885-17034-11	MW-35@15'	Total/NA	Solid	8015M/D	18005
885-17034-12	MW-35@28'	Total/NA	Solid	8015M/D	18005
885-17034-13	MW-36@30'	Total/NA	Solid	8015M/D	18005
885-17034-14	MW-36@47.5'	Total/NA	Solid	8015M/D	18005
885-17034-15	MW-36@55'	Total/NA	Solid	8015M/D	18005
MB 885-18005/1-A	Method Blank	Total/NA	Solid	8015M/D	18005
LCS 885-18005/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	18005

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

HPLC/IC

Analysis Batch: 17811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-17873/1-A	Method Blank	Total/NA	Solid	300.0	17873
LCS 885-17873/2-A	Lab Control Sample	Total/NA	Solid	300.0	17873

Prep Batch: 17873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17034-1	MW-33@20'	Total/NA	Solid	300_Prep	
885-17034-2	MW-33@25'	Total/NA	Solid	300_Prep	
885-17034-3	MW-33@30'	Total/NA	Solid	300_Prep	
885-17034-4	MW-34@25'	Total/NA	Solid	300_Prep	
885-17034-5	MW-34@20'	Total/NA	Solid	300_Prep	
885-17034-6	MW-34@28'	Total/NA	Solid	300_Prep	
885-17034-7	MW-32@15'	Total/NA	Solid	300_Prep	
885-17034-8	MW-32@20'	Total/NA	Solid	300_Prep	
885-17034-9	MW-32@27.5'	Total/NA	Solid	300_Prep	
885-17034-10	MW-35@10'	Total/NA	Solid	300_Prep	
885-17034-11	MW-35@15'	Total/NA	Solid	300_Prep	
885-17034-12	MW-35@28'	Total/NA	Solid	300_Prep	
885-17034-13	MW-36@30'	Total/NA	Solid	300_Prep	
885-17034-14	MW-36@47.5'	Total/NA	Solid	300_Prep	
885-17034-15	MW-36@55'	Total/NA	Solid	300_Prep	
MB 885-17873/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-17873/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 17905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17034-1	MW-33@20'	Total/NA	Solid	300.0	17873
885-17034-2	MW-33@25'	Total/NA	Solid	300.0	17873
885-17034-3	MW-33@30'	Total/NA	Solid	300.0	17873
885-17034-4	MW-34@25'	Total/NA	Solid	300.0	17873
885-17034-5	MW-34@20'	Total/NA	Solid	300.0	17873
885-17034-6	MW-34@28'	Total/NA	Solid	300.0	17873
885-17034-7	MW-32@15'	Total/NA	Solid	300.0	17873
885-17034-8	MW-32@20'	Total/NA	Solid	300.0	17873
885-17034-9	MW-32@27.5'	Total/NA	Solid	300.0	17873
885-17034-10	MW-35@10'	Total/NA	Solid	300.0	17873
885-17034-11	MW-35@15'	Total/NA	Solid	300.0	17873
885-17034-12	MW-35@28'	Total/NA	Solid	300.0	17873
885-17034-13	MW-36@30'	Total/NA	Solid	300.0	17873
885-17034-14	MW-36@47.5'	Total/NA	Solid	300.0	17873
885-17034-15	MW-36@55'	Total/NA	Solid	300.0	17873

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-33@20'
Lab Sample ID: 885-17034-1
Date Collected: 12/10/24 15:00
Matrix: Solid
Date Received: 12/14/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 12:56
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 01:08
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 19:00
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 11:40

Client Sample ID: MW-33@25'
Lab Sample ID: 885-17034-2
Date Collected: 12/10/24 15:15
Matrix: Solid
Date Received: 12/14/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 13:18
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 01:30
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 19:10
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 11:50

Client Sample ID: MW-33@30'
Lab Sample ID: 885-17034-3
Date Collected: 12/10/24 15:30
Matrix: Solid
Date Received: 12/14/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 13:40
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 01:52
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 19:21
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 12:21

Client Sample ID: MW-34@25'
Lab Sample ID: 885-17034-4
Date Collected: 12/11/24 11:00
Matrix: Solid
Date Received: 12/14/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 14:02

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-34@25'
Date Collected: 12/11/24 11:00
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 02:13
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 19:32
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 12:31

Client Sample ID: MW-34@20'
Date Collected: 12/11/24 11:15
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 14:23
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 02:35
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 19:53
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 12:42

Client Sample ID: MW-34@28'
Date Collected: 12/11/24 11:30
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 14:45
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 02:57
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 20:04
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 12:52

Client Sample ID: MW-32@15'
Date Collected: 12/12/24 17:30
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 15:07
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 03:40

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-32@15'
Date Collected: 12/12/24 17:30
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 20:14
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 13:02

Client Sample ID: MW-32@20'
Date Collected: 12/12/24 17:25
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 15:29
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 04:02
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 20:25
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 13:13

Client Sample ID: MW-32@27.5'
Date Collected: 12/12/24 17:35
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 15:51
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 04:24
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 20:36
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 13:23

Client Sample ID: MW-35@10'
Date Collected: 12/12/24 18:00
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 16:12
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 04:45
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 20:46

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-35@10'
Date Collected: 12/12/24 18:00
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 13:33

Client Sample ID: MW-35@15'
Date Collected: 12/12/24 17:55
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 16:34
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 05:07
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 20:57
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 13:44

Client Sample ID: MW-35@28'
Date Collected: 12/12/24 17:50
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 16:56
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 05:29
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 21:07
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 13:54

Client Sample ID: MW-36@30'
Date Collected: 12/13/24 14:10
Date Received: 12/14/24 07:30

Lab Sample ID: 885-17034-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 17:17
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 05:50
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 21:18
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 14:25

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Water Transfer

Job ID: 885-17034-1

Client Sample ID: MW-36@47.5'

Lab Sample ID: 885-17034-14
Matrix: Solid
Date Collected: 12/13/24 14:05
Date Received: 12/14/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 17:39
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 06:12
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 21:39
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 14:35

Client Sample ID: MW-36@55'

Lab Sample ID: 885-17034-15
Matrix: Solid
Date Collected: 12/13/24 14:00
Date Received: 12/14/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8015M/D		1	18085	AT	EET ALB	12/19/24 18:01
Total/NA	Prep	5030C			17859	AT	EET ALB	12/16/24 14:32
Total/NA	Analysis	8021B		1	18095	AT	EET ALB	12/19/24 06:34
Total/NA	Prep	SHAKE			18005	JM	EET ALB	12/18/24 09:14
Total/NA	Analysis	8015M/D		1	18344	DH	EET ALB	12/23/24 21:50
Total/NA	Prep	300_Prep			17873	JT	EET ALB	12/16/24 15:58
Total/NA	Analysis	300.0		20	17905	ES	EET ALB	12/17/24 14:46

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Job ID: 885-17034-1
Project/Site: Salty Dog Water Transfer

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 Energy Company

Mailing Address:

Phone #:

email or Fax#: SHyde@ensolum.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
5day
☑ Standard ☐ Rush

Project Name: Salty Dog Water Transfer

Project #: 07A1988013

Project Manager: Stuart Hyde

Sampler: W. Weichert

On Ice: ☑ Yes ☐ No mgp

# of Coolers: 2

Cooler Temp(including CF): 3.1 -0.3 = 2.8 (°C)
2.1 -0.3 = 1.8

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

885-17034 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)
12/10/24	15:00	Soil	MW-33@20'	4oz glass	None	1	X	X					X			
12.10.24	15:15		MW-33@25'			2										
12.10.24	15:30		MW-33@30'			3										
12.11.24	11:00		MW-34@25'			4										
↓	11:15		MW-34@20'			5										
↓	11:30	↓	MW-34@28'			6										
12/12/24	1730		MW-32@15'			7										
↓	1725		MW-32@20			8										
↓	1735		MW-32@27.5			9										
↓	1800		MW-35@10			10										
↓	1755		MW-35@15			11										
↓	1750	↓	MW-35@28	↓	↓	12										

Analysis Request

Remarks:

Date	Time	Relinquished by:	Received by	Via	Date	Time
12/13/24	1516				12/13/24	1516
12/13/24	1748			courier	12/14/24	7:30

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

Chain-of-Custody Record

Client: Hilcorp Energy Company

Mailing Address:

Phone #:

email or Fax#: shyde@ensolum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard 5day ☐ Rush

Project Name: Salty Dog Water Transfer

Project #: 07A1988013

Project Manager: Stuart Hyde

Sampler: S. Mahoney

On Ice: ☒ Yes ☐ No majo

# of Coolers: 2

Cooler Temp(Including CF): 3.1 - 0.3 = 2.8 (°C)

2.1 - 0.3 = 1.8 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/13/24	1610	Soil	MW-37 @ 30	4oz glass x1	None	13	X	X					X			
	1605		MW-37 @ 47.5			14										
	1600		MW-37 @ 55			15										

Note: MW-37 was mislabeled in the field and is identified here in as MW-36.

12/13

Date	Time	Relinquished by:	Received by	Via	Date	Time
12/13/24	1516				12/13/24	1516
12/13/24	1745			courier	12/14/24	7:30

Remarks:

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

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-17034-1

Login Number: 17034 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

ENSOLUM

APPENDIX D

Groundwater Sample Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brandon Sinclair
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 4/13/2024 5:26:39 PM

JOB DESCRIPTION

Salty Dog Pipeline

JOB NUMBER

885-1073-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
4/13/2024 5:26:39 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Laboratory Job ID: 885-1073-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: Salty Dog Pipeline

Job ID: 885-1073-1

Job ID: 885-1073-1 Eurofins Albuquerque

Job Narrative
885-1073-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt
The samples were received on 3/13/2024 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.4°C and 3.6°C.

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

HPLC/IC
Method 300_OF_48H_PREC: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-9 (885-1073-1), MW-10 (885-1073-2), MW-12 (885-1073-3), MW-15 (885-1073-4), MW-18 (885-1073-5), MW-27 (885-1073-6), MW-28 (885-1073-7), MW-29 (885-1073-8), MW-30 (885-1073-9), MW-31 (885-1073-10) and MW-13 (885-1073-11).

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

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

General Chemistry
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: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-9
Date Collected: 03/11/24 17:00
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 16:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 16:43	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 16:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 16:43	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 16:43	1
1,1-Dichloroethene	ND	F1	1.0		ug/L			03/20/24 16:43	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 16:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 16:43	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 16:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 16:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 16:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 16:43	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 16:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 16:43	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 16:43	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 16:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 16:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 16:43	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 16:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 16:43	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 16:43	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 16:43	1
2-Butanone	ND		10		ug/L			03/20/24 16:43	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 16:43	1
2-Hexanone	ND		10		ug/L			03/20/24 16:43	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 16:43	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 16:43	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 16:43	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 16:43	1
Acetone	ND		10		ug/L			03/20/24 16:43	1
Benzene	ND	F1	1.0		ug/L			03/20/24 16:43	1
Bromobenzene	ND		1.0		ug/L			03/20/24 16:43	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 16:43	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 16:43	1
Bromoform	ND		1.0		ug/L			03/20/24 16:43	1
Bromomethane	ND		3.0		ug/L			03/20/24 16:43	1
Carbon disulfide	ND		10		ug/L			03/20/24 16:43	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 16:43	1
Chlorobenzene	ND	F1	1.0		ug/L			03/20/24 16:43	1
Chloroethane	ND		2.0		ug/L			03/20/24 16:43	1
Chloroform	ND		1.0		ug/L			03/20/24 16:43	1
Chloromethane	ND		3.0		ug/L			03/20/24 16:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 16:43	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 16:43	1
Dibromomethane	ND		1.0		ug/L			03/20/24 16:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 16:43	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 16:43	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 16:43	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 16:43	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-9
Date Collected: 03/11/24 17:00
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 16:43	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 16:43	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 16:43	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 16:43	1
Naphthalene	ND		2.0		ug/L			03/20/24 16:43	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 16:43	1
Styrene	ND		1.0		ug/L			03/20/24 16:43	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 16:43	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 16:43	1
Toluene	ND	F1	1.0		ug/L			03/20/24 16:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 16:43	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 16:43	1
Trichloroethene (TCE)	ND	F1	1.0		ug/L			03/20/24 16:43	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 16:43	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 16:43	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*03/20/24 16:43*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/20/24 16:43*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/20/24 16:43*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/20/24 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**2.1**		1.0		mg/L			03/16/24 11:02	10
Nitrate as N	ND	H	1.0		mg/L			03/16/24 11:02	10
Chloride	**1200**		50		mg/L			03/16/24 11:15	100
Nitrite as N	ND	H	1.0		mg/L			03/16/24 11:02	10
Fluoride	ND		1.0		mg/L			03/16/24 11:02	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 11:02	10
Sulfate	**2200**		50		mg/L			03/16/24 11:15	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**600**		10		mg/L		03/15/24 12:01	03/27/24 09:39	10
Magnesium	**120**		5.0		mg/L		03/15/24 12:01	03/22/24 12:58	5
Potassium	**8.9**		1.0		mg/L		03/15/24 12:01	03/22/24 12:56	1
Sodium	**910**		10		mg/L		03/15/24 12:01	03/27/24 09:39	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**6900**		2500		mg/L			03/14/24 12:58	1
Total Alkalinity as CaCO3 (SM 2320B)	**260**		20		mg/L			03/19/24 13:25	1
Specific Conductance (SM 2510B)	**7200**		10		umhos/cm			03/19/24 13:25	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-10
Date Collected: 03/11/24 15:55
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 17:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 17:56	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 17:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 17:56	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 17:56	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 17:56	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 17:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 17:56	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 17:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 17:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 17:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 17:56	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 17:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 17:56	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 17:56	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 17:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 17:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 17:56	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 17:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 17:56	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 17:56	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 17:56	1
2-Butanone	ND		10		ug/L			03/20/24 17:56	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 17:56	1
2-Hexanone	ND		10		ug/L			03/20/24 17:56	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 17:56	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 17:56	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 17:56	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 17:56	1
Acetone	ND		10		ug/L			03/20/24 17:56	1
Benzene	ND		1.0		ug/L			03/20/24 17:56	1
Bromobenzene	ND		1.0		ug/L			03/20/24 17:56	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 17:56	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 17:56	1
Bromoform	ND		1.0		ug/L			03/20/24 17:56	1
Bromomethane	ND		3.0		ug/L			03/20/24 17:56	1
Carbon disulfide	ND		10		ug/L			03/20/24 17:56	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 17:56	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 17:56	1
Chloroethane	ND		2.0		ug/L			03/20/24 17:56	1
Chloroform	ND		1.0		ug/L			03/20/24 17:56	1
Chloromethane	ND		3.0		ug/L			03/20/24 17:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 17:56	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 17:56	1
Dibromomethane	ND		1.0		ug/L			03/20/24 17:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 17:56	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 17:56	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 17:56	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 17:56	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-10
Date Collected: 03/11/24 15:55
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 17:56	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 17:56	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 17:56	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 17:56	1
Naphthalene	ND		2.0		ug/L			03/20/24 17:56	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 17:56	1
Styrene	ND		1.0		ug/L			03/20/24 17:56	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 17:56	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 17:56	1
Toluene	ND		1.0		ug/L			03/20/24 17:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 17:56	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 17:56	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 17:56	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 17:56	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 17:56	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*03/20/24 17:56*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/20/24 17:56*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/20/24 17:56*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/20/24 17:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**3.6**		1.0		mg/L			03/16/24 11:53	10
Nitrate as N	ND	H	1.0		mg/L			03/16/24 11:53	10
Chloride	**3100**		100		mg/L			03/20/24 10:59	200
Nitrite as N	ND	H	1.0		mg/L			03/16/24 11:53	10
Fluoride	ND		1.0		mg/L			03/16/24 11:53	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 11:53	10
Sulfate	**2000**		50		mg/L			03/16/24 12:06	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**790**		20		mg/L		03/15/24 12:01	03/27/24 09:41	20
Magnesium	**90**		1.0		mg/L		03/15/24 12:01	03/22/24 13:00	1
Potassium	**9.7**		1.0		mg/L		03/15/24 12:01	03/22/24 13:00	1
Sodium	**1600**		20		mg/L		03/15/24 12:01	03/27/24 09:41	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**9600**		2500		mg/L			03/14/24 12:58	1
Total Alkalinity as CaCO3 (SM 2320B)	**190**		20		mg/L			03/19/24 13:40	1
Specific Conductance (SM 2510B)	**14000**		100		umhos/cm			03/20/24 12:05	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-12
Date Collected: 03/11/24 14:45
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 18:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 18:21	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 18:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 18:21	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 18:21	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 18:21	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 18:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 18:21	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 18:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 18:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 18:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 18:21	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 18:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 18:21	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 18:21	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 18:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 18:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 18:21	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 18:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 18:21	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 18:21	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 18:21	1
2-Butanone	ND		10		ug/L			03/20/24 18:21	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 18:21	1
2-Hexanone	ND		10		ug/L			03/20/24 18:21	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 18:21	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 18:21	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 18:21	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 18:21	1
Acetone	ND		10		ug/L			03/20/24 18:21	1
Benzene	ND		1.0		ug/L			03/20/24 18:21	1
Bromobenzene	ND		1.0		ug/L			03/20/24 18:21	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 18:21	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 18:21	1
Bromoform	ND		1.0		ug/L			03/20/24 18:21	1
Bromomethane	ND		3.0		ug/L			03/20/24 18:21	1
Carbon disulfide	ND		10		ug/L			03/20/24 18:21	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 18:21	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 18:21	1
Chloroethane	ND		2.0		ug/L			03/20/24 18:21	1
Chloroform	ND		1.0		ug/L			03/20/24 18:21	1
Chloromethane	ND		3.0		ug/L			03/20/24 18:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 18:21	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 18:21	1
Dibromomethane	ND		1.0		ug/L			03/20/24 18:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 18:21	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 18:21	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 18:21	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 18:21	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-12
Date Collected: 03/11/24 14:45
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 18:21	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 18:21	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 18:21	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 18:21	1
Naphthalene	ND		2.0		ug/L			03/20/24 18:21	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 18:21	1
Styrene	ND		1.0		ug/L			03/20/24 18:21	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 18:21	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 18:21	1
Toluene	ND		1.0		ug/L			03/20/24 18:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 18:21	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 18:21	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 18:21	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 18:21	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 18:21	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*03/20/24 18:21*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*03/20/24 18:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/20/24 18:21*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/20/24 18:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**7.5**		1.0		mg/L			03/16/24 12:19	10
Nitrate as N	**2.1**	**H**	1.0		mg/L			03/16/24 12:19	10
Chloride	**6100**		250		mg/L			03/20/24 11:11	500
Nitrite as N	ND	H	10		mg/L			03/16/24 12:32	100
Fluoride	ND		1.0		mg/L			03/16/24 12:19	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 12:19	10
Sulfate	**2800**		50		mg/L			03/16/24 12:32	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**860**		50		mg/L		03/15/24 12:01	03/27/24 09:42	50
Magnesium	**150**		5.0		mg/L		03/15/24 12:01	03/22/24 13:05	5
Potassium	**24**		5.0		mg/L		03/15/24 12:01	03/22/24 13:05	5
Sodium	**3300**		50		mg/L		03/15/24 12:01	03/27/24 09:42	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**14000**		2500		mg/L			03/14/24 12:58	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			03/19/24 13:51	1
Specific Conductance (SM 2510B)	**25000**		100		umhos/cm			03/20/24 12:08	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-15
Date Collected: 03/11/24 16:45
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 18:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 18:45	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 18:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 18:45	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 18:45	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 18:45	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 18:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 18:45	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 18:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 18:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 18:45	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 18:45	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 18:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 18:45	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 18:45	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 18:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 18:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 18:45	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 18:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 18:45	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 18:45	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 18:45	1
2-Butanone	ND		10		ug/L			03/20/24 18:45	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 18:45	1
2-Hexanone	ND		10		ug/L			03/20/24 18:45	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 18:45	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 18:45	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 18:45	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 18:45	1
Acetone	ND		10		ug/L			03/20/24 18:45	1
Benzene	ND		1.0		ug/L			03/20/24 18:45	1
Bromobenzene	ND		1.0		ug/L			03/20/24 18:45	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 18:45	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 18:45	1
Bromoform	ND		1.0		ug/L			03/20/24 18:45	1
Bromomethane	ND		3.0		ug/L			03/20/24 18:45	1
Carbon disulfide	ND		10		ug/L			03/20/24 18:45	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 18:45	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 18:45	1
Chloroethane	ND		2.0		ug/L			03/20/24 18:45	1
Chloroform	ND		1.0		ug/L			03/20/24 18:45	1
Chloromethane	ND		3.0		ug/L			03/20/24 18:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 18:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 18:45	1
Dibromomethane	ND		1.0		ug/L			03/20/24 18:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 18:45	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 18:45	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 18:45	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 18:45	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-15
Date Collected: 03/11/24 16:45
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 18:45	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 18:45	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 18:45	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 18:45	1
Naphthalene	ND		2.0		ug/L			03/20/24 18:45	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 18:45	1
Styrene	ND		1.0		ug/L			03/20/24 18:45	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 18:45	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 18:45	1
Toluene	ND		1.0		ug/L			03/20/24 18:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 18:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 18:45	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 18:45	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 18:45	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 18:45	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*03/20/24 18:45*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/20/24 18:45*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*03/20/24 18:45*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/20/24 18:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.3**		1.0		mg/L			03/16/24 12:45	10
Nitrate as N	ND	H	1.0		mg/L			03/16/24 12:45	10
Chloride	**630**		50		mg/L			03/16/24 12:57	100
Nitrite as N	ND	H	1.0		mg/L			03/16/24 12:45	10
Fluoride	ND		1.0		mg/L			03/16/24 12:45	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 12:45	10
Sulfate	**2000**		50		mg/L			03/16/24 12:57	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**580**		10		mg/L		03/15/24 12:01	03/27/24 09:44	10
Magnesium	**76**		1.0		mg/L		03/15/24 12:01	03/22/24 13:12	1
Potassium	**8.1**		1.0		mg/L		03/15/24 12:01	03/22/24 13:12	1
Sodium	**680**		10		mg/L		03/15/24 12:01	03/27/24 09:44	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4600**		2500		mg/L			03/14/24 12:58	1
Total Alkalinity as CaCO3 (SM 2320B)	**210**		20		mg/L			03/19/24 14:04	1
Specific Conductance (SM 2510B)	**5500**		10		umhos/cm			03/19/24 14:04	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-18
Date Collected: 03/11/24 14:20
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 19:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 19:09	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 19:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 19:09	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 19:09	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 19:09	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 19:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 19:09	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 19:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 19:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 19:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 19:09	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 19:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 19:09	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 19:09	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 19:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 19:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 19:09	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 19:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 19:09	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 19:09	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 19:09	1
2-Butanone	ND		10		ug/L			03/20/24 19:09	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 19:09	1
2-Hexanone	ND		10		ug/L			03/20/24 19:09	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 19:09	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 19:09	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 19:09	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 19:09	1
Acetone	ND		10		ug/L			03/20/24 19:09	1
Benzene	ND		1.0		ug/L			03/20/24 19:09	1
Bromobenzene	ND		1.0		ug/L			03/20/24 19:09	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 19:09	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 19:09	1
Bromoform	ND		1.0		ug/L			03/20/24 19:09	1
Bromomethane	ND		3.0		ug/L			03/20/24 19:09	1
Carbon disulfide	ND		10		ug/L			03/20/24 19:09	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 19:09	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 19:09	1
Chloroethane	ND		2.0		ug/L			03/20/24 19:09	1
Chloroform	ND		1.0		ug/L			03/20/24 19:09	1
Chloromethane	ND		3.0		ug/L			03/20/24 19:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 19:09	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 19:09	1
Dibromomethane	ND		1.0		ug/L			03/20/24 19:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 19:09	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 19:09	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 19:09	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 19:09	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-18
Date Collected: 03/11/24 14:20
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 19:09	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 19:09	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 19:09	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 19:09	1
Naphthalene	ND		2.0		ug/L			03/20/24 19:09	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 19:09	1
Styrene	ND		1.0		ug/L			03/20/24 19:09	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 19:09	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 19:09	1
Toluene	ND		1.0		ug/L			03/20/24 19:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 19:09	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 19:09	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 19:09	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 19:09	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 19:09	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*03/20/24 19:09*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/20/24 19:09*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*03/20/24 19:09*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/20/24 19:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**13**		1.0		mg/L			03/16/24 13:10	10
Nitrate as N	**3.4**	**H**	1.0		mg/L			03/16/24 13:10	10
Chloride	**10000**		500		mg/L			03/20/24 11:23	1000
Nitrite as N	ND	H	10		mg/L			03/16/24 13:23	100
Fluoride	ND		1.0		mg/L			03/16/24 13:10	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 13:10	10
Sulfate	**1900**		50		mg/L			03/16/24 13:23	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1900**		50		mg/L		03/15/24 12:01	03/27/24 09:50	50
Magnesium	**300**		5.0		mg/L		03/15/24 12:01	03/22/24 13:23	5
Potassium	**22**		5.0		mg/L		03/15/24 12:01	03/22/24 13:23	5
Sodium	**4100**		50		mg/L		03/15/24 12:01	03/27/24 09:50	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**20000**		1000		mg/L			03/15/24 10:40	1
Total Alkalinity as CaCO3 (SM 2320B)	**180**		20		mg/L			03/19/24 14:16	1
Specific Conductance (SM 2510B)	**35000**		100		umhos/cm			03/20/24 12:17	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-27
Date Collected: 03/11/24 16:20
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 19:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 19:34	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 19:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 19:34	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 19:34	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 19:34	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 19:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 19:34	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 19:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 19:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 19:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 19:34	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 19:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 19:34	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 19:34	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 19:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 19:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 19:34	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 19:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 19:34	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 19:34	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 19:34	1
2-Butanone	ND		10		ug/L			03/20/24 19:34	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 19:34	1
2-Hexanone	ND		10		ug/L			03/20/24 19:34	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 19:34	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 19:34	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 19:34	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 19:34	1
Acetone	ND		10		ug/L			03/20/24 19:34	1
Benzene	ND		1.0		ug/L			03/20/24 19:34	1
Bromobenzene	ND		1.0		ug/L			03/20/24 19:34	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 19:34	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 19:34	1
Bromoform	ND		1.0		ug/L			03/20/24 19:34	1
Bromomethane	ND		3.0		ug/L			03/20/24 19:34	1
Carbon disulfide	ND		10		ug/L			03/20/24 19:34	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 19:34	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 19:34	1
Chloroethane	ND		2.0		ug/L			03/20/24 19:34	1
Chloroform	ND		1.0		ug/L			03/20/24 19:34	1
Chloromethane	ND		3.0		ug/L			03/20/24 19:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 19:34	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 19:34	1
Dibromomethane	ND		1.0		ug/L			03/20/24 19:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 19:34	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 19:34	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 19:34	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 19:34	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-27
Date Collected: 03/11/24 16:20
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 19:34	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 19:34	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 19:34	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 19:34	1
Naphthalene	ND		2.0		ug/L			03/20/24 19:34	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 19:34	1
Styrene	ND		1.0		ug/L			03/20/24 19:34	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 19:34	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 19:34	1
Toluene	ND		1.0		ug/L			03/20/24 19:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 19:34	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 19:34	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 19:34	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 19:34	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 19:34	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*03/20/24 19:34*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/20/24 19:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/20/24 19:34*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/20/24 19:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.4**		1.0		mg/L			03/16/24 13:36	10
Nitrate as N	ND	H	1.0		mg/L			03/16/24 13:36	10
Chloride	**830**		50		mg/L			03/16/24 13:49	100
Nitrite as N	ND	H	1.0		mg/L			03/16/24 13:36	10
Fluoride	ND		1.0		mg/L			03/16/24 13:36	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 13:36	10
Sulfate	**2100**		50		mg/L			03/16/24 13:49	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**590**		10		mg/L		03/15/24 12:01	03/27/24 09:51	10
Magnesium	**75**		1.0		mg/L		03/15/24 12:01	03/22/24 13:25	1
Potassium	**9.7**		1.0		mg/L		03/15/24 12:01	03/22/24 13:25	1
Sodium	**710**		10		mg/L		03/15/24 12:01	03/27/24 09:51	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4500**		1000		mg/L			03/15/24 10:40	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			03/19/24 14:28	1
Specific Conductance (SM 2510B)	**5800**		10		umhos/cm			03/19/24 14:28	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-28
Date Collected: 03/11/24 13:55
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 19:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 19:58	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 19:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 19:58	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 19:58	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 19:58	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 19:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 19:58	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 19:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 19:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 19:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 19:58	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 19:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 19:58	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 19:58	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 19:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 19:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 19:58	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 19:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 19:58	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 19:58	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 19:58	1
2-Butanone	ND		10		ug/L			03/20/24 19:58	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 19:58	1
2-Hexanone	ND		10		ug/L			03/20/24 19:58	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 19:58	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 19:58	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 19:58	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 19:58	1
Acetone	ND		10		ug/L			03/20/24 19:58	1
Benzene	ND		1.0		ug/L			03/20/24 19:58	1
Bromobenzene	ND		1.0		ug/L			03/20/24 19:58	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 19:58	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 19:58	1
Bromoform	ND		1.0		ug/L			03/20/24 19:58	1
Bromomethane	ND		3.0		ug/L			03/20/24 19:58	1
Carbon disulfide	ND		10		ug/L			03/20/24 19:58	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 19:58	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 19:58	1
Chloroethane	ND		2.0		ug/L			03/20/24 19:58	1
Chloroform	ND		1.0		ug/L			03/20/24 19:58	1
Chloromethane	ND		3.0		ug/L			03/20/24 19:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 19:58	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 19:58	1
Dibromomethane	ND		1.0		ug/L			03/20/24 19:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 19:58	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 19:58	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 19:58	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 19:58	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-28
Date Collected: 03/11/24 13:55
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 19:58	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 19:58	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 19:58	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 19:58	1
Naphthalene	ND		2.0		ug/L			03/20/24 19:58	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 19:58	1
Styrene	ND		1.0		ug/L			03/20/24 19:58	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 19:58	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 19:58	1
Toluene	ND		1.0		ug/L			03/20/24 19:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 19:58	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 19:58	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 19:58	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 19:58	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 19:58	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*03/20/24 19:58*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/20/24 19:58*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*03/20/24 19:58*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/20/24 19:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**2.9**		1.0		mg/L			03/16/24 14:28	10
Nitrate as N	**1.4**	**H**	1.0		mg/L			03/16/24 14:28	10
Chloride	**2200**		100		mg/L			03/20/24 11:36	200
Nitrite as N	ND	H	1.0		mg/L			03/16/24 14:28	10
Fluoride	ND		1.0		mg/L			03/16/24 14:28	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 14:28	10
Sulfate	**2400**		50		mg/L			03/16/24 14:40	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**630**		20		mg/L		03/15/24 12:01	03/27/24 09:53	20
Magnesium	**87**		1.0		mg/L		03/15/24 12:01	03/22/24 13:29	1
Potassium	**11**		1.0		mg/L		03/15/24 12:01	03/22/24 13:29	1
Sodium	**1600**		20		mg/L		03/15/24 12:01	03/27/24 09:53	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**6800**		1000		mg/L			03/15/24 10:40	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			03/19/24 14:45	1
Specific Conductance (SM 2510B)	**9900**		10		umhos/cm			03/19/24 14:45	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-29
Date Collected: 03/11/24 13:10
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 20:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 20:22	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 20:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 20:22	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 20:22	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 20:22	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 20:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 20:22	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 20:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 20:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 20:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 20:22	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 20:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 20:22	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 20:22	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 20:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 20:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 20:22	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 20:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 20:22	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 20:22	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 20:22	1
2-Butanone	ND		10		ug/L			03/20/24 20:22	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 20:22	1
2-Hexanone	ND		10		ug/L			03/20/24 20:22	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 20:22	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 20:22	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 20:22	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 20:22	1
Acetone	ND		10		ug/L			03/20/24 20:22	1
Benzene	ND		1.0		ug/L			03/20/24 20:22	1
Bromobenzene	ND		1.0		ug/L			03/20/24 20:22	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 20:22	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 20:22	1
Bromoform	ND		1.0		ug/L			03/20/24 20:22	1
Bromomethane	ND		3.0		ug/L			03/20/24 20:22	1
Carbon disulfide	ND		10		ug/L			03/20/24 20:22	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 20:22	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 20:22	1
Chloroethane	ND		2.0		ug/L			03/20/24 20:22	1
Chloroform	ND		1.0		ug/L			03/20/24 20:22	1
Chloromethane	ND		3.0		ug/L			03/20/24 20:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 20:22	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 20:22	1
Dibromomethane	ND		1.0		ug/L			03/20/24 20:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 20:22	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 20:22	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 20:22	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 20:22	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-29
Date Collected: 03/11/24 13:10
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 20:22	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 20:22	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 20:22	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 20:22	1
Naphthalene	ND		2.0		ug/L			03/20/24 20:22	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 20:22	1
Styrene	ND		1.0		ug/L			03/20/24 20:22	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 20:22	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 20:22	1
Toluene	ND		1.0		ug/L			03/20/24 20:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 20:22	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 20:22	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 20:22	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 20:22	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 20:22	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*03/20/24 20:22*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*03/20/24 20:22*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*03/20/24 20:22*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*03/20/24 20:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**2.9**		1.0		mg/L			03/16/24 14:53	10
Nitrate as N	ND	H	1.0		mg/L			03/16/24 14:53	10
Chloride	**2000**		100		mg/L			03/20/24 12:13	200
Nitrite as N	ND	H	1.0		mg/L			03/16/24 14:53	10
Fluoride	ND		1.0		mg/L			03/16/24 14:53	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 14:53	10
Sulfate	**2400**		50		mg/L			03/16/24 15:06	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**510**		20		mg/L		03/15/24 12:01	03/27/24 09:54	20
Magnesium	**81**		1.0		mg/L		03/15/24 12:01	03/22/24 13:32	1
Potassium	**10**		1.0		mg/L		03/15/24 12:01	03/22/24 13:32	1
Sodium	**1700**		20		mg/L		03/15/24 12:01	03/27/24 09:54	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**7000**		1000		mg/L			03/15/24 10:40	1
Total Alkalinity as CaCO3 (SM 2320B)	**240**		20		mg/L			03/19/24 14:58	1
Specific Conductance (SM 2510B)	**9700**		10		umhos/cm			03/19/24 14:58	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-30
Date Collected: 03/11/24 17:40
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 20:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 20:47	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 20:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 20:47	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 20:47	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 20:47	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 20:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 20:47	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 20:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 20:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 20:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 20:47	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 20:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 20:47	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 20:47	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 20:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 20:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 20:47	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 20:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 20:47	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 20:47	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 20:47	1
2-Butanone	ND		10		ug/L			03/20/24 20:47	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 20:47	1
2-Hexanone	ND		10		ug/L			03/20/24 20:47	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 20:47	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 20:47	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 20:47	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 20:47	1
Acetone	ND		10		ug/L			03/20/24 20:47	1
Benzene	ND		1.0		ug/L			03/20/24 20:47	1
Bromobenzene	ND		1.0		ug/L			03/20/24 20:47	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 20:47	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 20:47	1
Bromoform	ND		1.0		ug/L			03/20/24 20:47	1
Bromomethane	ND		3.0		ug/L			03/20/24 20:47	1
Carbon disulfide	ND		10		ug/L			03/20/24 20:47	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 20:47	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 20:47	1
Chloroethane	ND		2.0		ug/L			03/20/24 20:47	1
Chloroform	ND		1.0		ug/L			03/20/24 20:47	1
Chloromethane	ND		3.0		ug/L			03/20/24 20:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 20:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 20:47	1
Dibromomethane	ND		1.0		ug/L			03/20/24 20:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 20:47	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 20:47	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 20:47	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 20:47	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-30
Date Collected: 03/11/24 17:40
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 20:47	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 20:47	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 20:47	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 20:47	1
Naphthalene	ND		2.0		ug/L			03/20/24 20:47	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 20:47	1
Styrene	ND		1.0		ug/L			03/20/24 20:47	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 20:47	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 20:47	1
Toluene	ND		1.0		ug/L			03/20/24 20:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 20:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 20:47	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 20:47	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 20:47	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 20:47	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*03/20/24 20:47*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*03/20/24 20:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*03/20/24 20:47*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/20/24 20:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.1**		1.0		mg/L			03/16/24 15:19	10
Nitrate as N	ND	H	1.0		mg/L			03/16/24 15:19	10
Chloride	**380**		50		mg/L			03/16/24 15:32	100
Nitrite as N	ND	H	1.0		mg/L			03/16/24 15:19	10
Fluoride	ND		1.0		mg/L			03/16/24 15:19	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 15:19	10
Sulfate	**2100**		50		mg/L			03/16/24 15:32	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**530**		10		mg/L		03/15/24 12:01	03/27/24 09:56	10
Magnesium	**80**		1.0		mg/L		03/15/24 12:01	03/22/24 17:54	1
Potassium	**8.4**		1.0		mg/L		03/15/24 12:01	03/22/24 17:54	1
Sodium	**620**		10		mg/L		03/15/24 12:01	03/27/24 09:56	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3600**		1000		mg/L			03/15/24 10:40	1
Total Alkalinity as CaCO3 (SM 2320B)	**230**		20		mg/L			03/19/24 15:16	1
Specific Conductance (SM 2510B)	**5100**		10		umhos/cm			03/19/24 15:16	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-31
Date Collected: 03/11/24 17:25
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 21:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 21:11	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 21:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 21:11	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 21:11	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 21:11	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 21:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 21:11	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 21:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 21:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 21:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 21:11	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 21:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 21:11	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 21:11	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 21:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 21:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 21:11	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 21:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 21:11	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 21:11	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 21:11	1
2-Butanone	ND		10		ug/L			03/20/24 21:11	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 21:11	1
2-Hexanone	ND		10		ug/L			03/20/24 21:11	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 21:11	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 21:11	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 21:11	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 21:11	1
Acetone	ND		10		ug/L			03/20/24 21:11	1
Benzene	ND		1.0		ug/L			03/20/24 21:11	1
Bromobenzene	ND		1.0		ug/L			03/20/24 21:11	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 21:11	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 21:11	1
Bromoform	ND		1.0		ug/L			03/20/24 21:11	1
Bromomethane	ND		3.0		ug/L			03/20/24 21:11	1
Carbon disulfide	ND		10		ug/L			03/20/24 21:11	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 21:11	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 21:11	1
Chloroethane	ND		2.0		ug/L			03/20/24 21:11	1
Chloroform	ND		1.0		ug/L			03/20/24 21:11	1
Chloromethane	ND		3.0		ug/L			03/20/24 21:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 21:11	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 21:11	1
Dibromomethane	ND		1.0		ug/L			03/20/24 21:11	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 21:11	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 21:11	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 21:11	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 21:11	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-31
Date Collected: 03/11/24 17:25
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 21:11	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 21:11	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 21:11	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 21:11	1
Naphthalene	ND		2.0		ug/L			03/20/24 21:11	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 21:11	1
Styrene	ND		1.0		ug/L			03/20/24 21:11	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 21:11	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 21:11	1
Toluene	ND		1.0		ug/L			03/20/24 21:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 21:11	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 21:11	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 21:11	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 21:11	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 21:11	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*03/20/24 21:11*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/20/24 21:11*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*03/20/24 21:11*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*03/20/24 21:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.1**		1.0		mg/L			03/16/24 15:45	10
Nitrate as N	ND	H	1.0		mg/L			03/16/24 15:45	10
Chloride	**360**		50		mg/L			03/16/24 15:58	100
Nitrite as N	ND	H	1.0		mg/L			03/16/24 15:45	10
Fluoride	ND		1.0		mg/L			03/16/24 15:45	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 15:45	10
Sulfate	**2100**		50		mg/L			03/16/24 15:58	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**510**		10		mg/L		03/15/24 12:01	03/27/24 09:57	10
Magnesium	**71**		5.0		mg/L		03/15/24 12:01	03/22/24 13:49	5
Potassium	**6.8**		5.0		mg/L		03/15/24 12:01	03/22/24 13:49	5
Sodium	**540**		10		mg/L		03/15/24 12:01	03/27/24 09:57	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3100**		1000		mg/L			03/15/24 10:40	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			03/19/24 15:29	1
Specific Conductance (SM 2510B)	**4700**		10		umhos/cm			03/19/24 15:29	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-13
Date Collected: 03/11/24 15:15
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-11
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 21:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 21:36	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 21:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 21:36	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 21:36	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 21:36	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 21:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 21:36	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 21:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 21:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 21:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 21:36	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 21:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 21:36	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 21:36	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 21:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 21:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 21:36	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 21:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 21:36	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 21:36	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 21:36	1
2-Butanone	ND		10		ug/L			03/20/24 21:36	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 21:36	1
2-Hexanone	ND		10		ug/L			03/20/24 21:36	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 21:36	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 21:36	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 21:36	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 21:36	1
Acetone	ND		10		ug/L			03/20/24 21:36	1
Benzene	ND		1.0		ug/L			03/20/24 21:36	1
Bromobenzene	ND		1.0		ug/L			03/20/24 21:36	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 21:36	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 21:36	1
Bromoform	ND		1.0		ug/L			03/20/24 21:36	1
Bromomethane	ND		3.0		ug/L			03/20/24 21:36	1
Carbon disulfide	ND		10		ug/L			03/20/24 21:36	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 21:36	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 21:36	1
Chloroethane	ND		2.0		ug/L			03/20/24 21:36	1
Chloroform	ND		1.0		ug/L			03/20/24 21:36	1
Chloromethane	ND		3.0		ug/L			03/20/24 21:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 21:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 21:36	1
Dibromomethane	ND		1.0		ug/L			03/20/24 21:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 21:36	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 21:36	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 21:36	1
Isopropylbenzene	ND		1.0		ug/L			03/20/24 21:36	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-13
Date Collected: 03/11/24 15:15
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-11
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 21:36	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 21:36	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 21:36	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 21:36	1
Naphthalene	ND		2.0		ug/L			03/20/24 21:36	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 21:36	1
Styrene	ND		1.0		ug/L			03/20/24 21:36	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 21:36	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 21:36	1
Toluene	ND		1.0		ug/L			03/20/24 21:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 21:36	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 21:36	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 21:36	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 21:36	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 21:36	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*03/20/24 21:36*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/20/24 21:36*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*03/20/24 21:36*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*03/20/24 21:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**10**		1.0		mg/L			03/16/24 16:10	10
Nitrate as N	**3.0**	**H**	1.0		mg/L			03/16/24 16:10	10
Chloride	**8300**		250		mg/L			03/20/24 12:25	500
Nitrite as N	ND	H	10		mg/L			03/16/24 16:23	100
Fluoride	ND		1.0		mg/L			03/16/24 16:10	10
Orthophosphate as P	ND	H	5.0		mg/L			03/16/24 16:10	10
Sulfate	**1700**		50		mg/L			03/16/24 16:23	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1400**		50		mg/L		03/15/24 12:01	03/27/24 09:59	50
Magnesium	**180**		5.0		mg/L		03/15/24 12:01	03/22/24 13:53	5
Potassium	**16**		1.0		mg/L		03/15/24 12:01	03/22/24 13:51	1
Sodium	**3300**		50		mg/L		03/15/24 12:01	03/27/24 09:59	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**18000**		1000		mg/L			03/15/24 10:40	1
Total Alkalinity as CaCO3 (SM 2320B)	**160**		20		mg/L			03/19/24 15:41	1
Specific Conductance (SM 2510B)	**310000**		1000		umhos/cm			03/20/24 12:20	100

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-2089/3
Matrix: Water
Analysis Batch: 2089

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/20/24 13:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			03/20/24 13:04	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/20/24 13:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/20/24 13:04	1
1,1-Dichloroethane	ND		1.0		ug/L			03/20/24 13:04	1
1,1-Dichloroethene	ND		1.0		ug/L			03/20/24 13:04	1
1,1-Dichloropropene	ND		1.0		ug/L			03/20/24 13:04	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/20/24 13:04	1
1,2,3-Trichloropropane	ND		2.0		ug/L			03/20/24 13:04	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/24 13:04	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/20/24 13:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/20/24 13:04	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			03/20/24 13:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/20/24 13:04	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			03/20/24 13:04	1
1,2-Dichloropropane	ND		1.0		ug/L			03/20/24 13:04	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/20/24 13:04	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/20/24 13:04	1
1,3-Dichloropropane	ND		1.0		ug/L			03/20/24 13:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			03/20/24 13:04	1
1-Methylnaphthalene	ND		4.0		ug/L			03/20/24 13:04	1
2,2-Dichloropropane	ND		2.0		ug/L			03/20/24 13:04	1
2-Butanone	ND		10		ug/L			03/20/24 13:04	1
2-Chlorotoluene	ND		1.0		ug/L			03/20/24 13:04	1
2-Hexanone	ND		10		ug/L			03/20/24 13:04	1
2-Methylnaphthalene	ND		4.0		ug/L			03/20/24 13:04	1
4-Chlorotoluene	ND		1.0		ug/L			03/20/24 13:04	1
4-Isopropyltoluene	ND		1.0		ug/L			03/20/24 13:04	1
4-Methyl-2-pentanone	ND		10		ug/L			03/20/24 13:04	1
Acetone	ND		10		ug/L			03/20/24 13:04	1
Benzene	ND		1.0		ug/L			03/20/24 13:04	1
Bromobenzene	ND		1.0		ug/L			03/20/24 13:04	1
Bromodichloromethane	ND		1.0		ug/L			03/20/24 13:04	1
Dibromochloromethane	ND		1.0		ug/L			03/20/24 13:04	1
Bromoform	ND		1.0		ug/L			03/20/24 13:04	1
Bromomethane	ND		3.0		ug/L			03/20/24 13:04	1
Carbon disulfide	ND		10		ug/L			03/20/24 13:04	1
Carbon tetrachloride	ND		1.0		ug/L			03/20/24 13:04	1
Chlorobenzene	ND		1.0		ug/L			03/20/24 13:04	1
Chloroethane	ND		2.0		ug/L			03/20/24 13:04	1
Chloroform	ND		1.0		ug/L			03/20/24 13:04	1
Chloromethane	ND		3.0		ug/L			03/20/24 13:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 13:04	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 13:04	1
Dibromomethane	ND		1.0		ug/L			03/20/24 13:04	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/20/24 13:04	1
Ethylbenzene	ND		1.0		ug/L			03/20/24 13:04	1
Hexachlorobutadiene	ND		1.0		ug/L			03/20/24 13:04	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-2089/3
Matrix: Water
Analysis Batch: 2089

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			03/20/24 13:04	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/20/24 13:04	1
Methylene Chloride	ND		3.0		ug/L			03/20/24 13:04	1
n-Butylbenzene	ND		3.0		ug/L			03/20/24 13:04	1
N-Propylbenzene	ND		1.0		ug/L			03/20/24 13:04	1
Naphthalene	ND		2.0		ug/L			03/20/24 13:04	1
sec-Butylbenzene	ND		1.0		ug/L			03/20/24 13:04	1
Styrene	ND		1.0		ug/L			03/20/24 13:04	1
tert-Butylbenzene	ND		1.0		ug/L			03/20/24 13:04	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/20/24 13:04	1
Toluene	ND		1.0		ug/L			03/20/24 13:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/20/24 13:04	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/20/24 13:04	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/20/24 13:04	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/24 13:04	1
Vinyl chloride	ND		1.0		ug/L			03/20/24 13:04	1
Xylenes, Total	ND		1.5		ug/L			03/20/24 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*03/20/24 13:04*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*03/20/24 13:04*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/20/24 13:04*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*03/20/24 13:04*	*1*

Lab Sample ID: LCS 885-2089/2
Matrix: Water
Analysis Batch: 2089

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	18.1		ug/L		90	70 - 130		
Benzene			20.1	19.7		ug/L		98	70 - 130		
Chlorobenzene			20.1	20.7		ug/L		103	70 - 130		
Toluene			20.2	19.5		ug/L		97	70 - 130		
Trichloroethene (TCE)			20.2	19.2		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Lab Sample ID: 885-1073-1 MSD
Matrix: Water
Analysis Batch: 2089

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND	F1	20.1	17.6		ug/L		88	70 - 130	10	20
Benzene	ND	F1	20.1	20.0		ug/L		100	70 - 130	5	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-1073-1 MSD — **Client Sample ID: MW-9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2089

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	ND	F1	20.1	20.4		ug/L		102	70 - 130	3	20
Toluene	ND	F1	20.2	19.7		ug/L		97	70 - 130	3	20
Trichloroethene (TCE)	ND	F1	20.2	18.7		ug/L		92	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: 885-1073-1 MS — **Client Sample ID: MW-9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	ND	F1	20.1	19.4		ug/L		96	70 - 130
Benzene	ND	F1	20.1	21.0		ug/L		105	70 - 130
Chlorobenzene	ND	F1	20.1	21.0		ug/L		105	70 - 130
Toluene	ND	F1	20.2	20.3		ug/L		101	70 - 130
Trichloroethene (TCE)	ND	F1	20.2	20.4		ug/L		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-1837/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 1837

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			03/16/24 09:45	1
Chloride	ND		0.50		mg/L			03/16/24 09:45	1
Fluoride	ND		0.10		mg/L			03/16/24 09:45	1
Sulfate	ND		0.50		mg/L			03/16/24 09:45	1

Lab Sample ID: LCS 885-1837/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 1837

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide			2.50	2.39		mg/L		96	90 - 110
Chloride			5.00	4.65		mg/L		93	90 - 110
Fluoride			0.500	0.501		mg/L		100	90 - 110
Sulfate			10.0	9.43		mg/L		94	90 - 110

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QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-1837/3
Matrix: Water
Analysis Batch: 1837

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.100	0.103		mg/L		103	50 - 150
Chloride	0.500	0.508		mg/L		102	50 - 150
Fluoride	0.100	0.111		mg/L		111	50 - 150
Sulfate	0.500	0.479	J	mg/L		96	50 - 150

Lab Sample ID: MB 885-1838/4
Matrix: Water
Analysis Batch: 1838

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10	mg/L			03/16/24 09:45	1
Nitrite as N	ND		0.10	mg/L			03/16/24 09:45	1
Orthophosphate as P	ND		0.50	mg/L			03/16/24 09:45	1

Lab Sample ID: LCS 885-1838/5
Matrix: Water
Analysis Batch: 1838

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.44		mg/L		98	90 - 110
Nitrite as N	1.00	1.00		mg/L		100	90 - 110
Orthophosphate as P	5.00	4.55		mg/L		91	90 - 110

Lab Sample ID: MRL 885-1838/3
Matrix: Water
Analysis Batch: 1838

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.0966	J	mg/L		97	50 - 150
Nitrite as N	0.0999	0.109		mg/L		109	50 - 150
Orthophosphate as P	0.500	0.468	J	mg/L		94	50 - 150

Lab Sample ID: MB 885-2064/5
Matrix: Water
Analysis Batch: 2064

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	mg/L			03/20/24 09:57	1
Chloride	ND		0.50	mg/L			03/20/24 09:57	1
Fluoride	ND		0.10	mg/L			03/20/24 09:57	1
Sulfate	ND		0.50	mg/L			03/20/24 09:57	1

Lab Sample ID: LCS 885-2064/6
Matrix: Water
Analysis Batch: 2064

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	2.50	2.53		mg/L		101	90 - 110
Chloride	5.00	4.92		mg/L		98	90 - 110
Fluoride	0.500	0.531		mg/L		106	90 - 110

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-2064/6
Matrix: Water
Analysis Batch: 2064

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: MRL 885-2064/4
Matrix: Water
Analysis Batch: 2064

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.100	0.102		mg/L		102	50 - 150
Chloride	0.500	0.539		mg/L		108	50 - 150
Fluoride	0.100	0.107		mg/L		107	50 - 150
Sulfate	0.500	0.528		mg/L		106	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MRL 885-2393/25
Matrix: Water
Analysis Batch: 2393

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.500	0.506	J	mg/L		101	50 - 150
Sodium	0.500	0.494	J	mg/L		99	50 - 150

Lab Sample ID: MB 885-1784/1-A
Matrix: Water
Analysis Batch: 2244

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 1784

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.0		mg/L		03/15/24 12:01	03/22/24 11:59	1
Magnesium	ND		1.0		mg/L		03/15/24 12:01	03/22/24 11:59	1
Potassium	ND		1.0		mg/L		03/15/24 12:01	03/22/24 11:59	1
Sodium	ND		1.0		mg/L		03/15/24 12:01	03/22/24 11:59	1

Lab Sample ID: LCS 885-1784/3-A
Matrix: Water
Analysis Batch: 2244

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 1784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50.0	48.4		mg/L		97	85 - 115
Magnesium	50.0	48.5		mg/L		97	85 - 115
Potassium	50.0	47.7		mg/L		95	85 - 115
Sodium	50.0	47.7		mg/L		95	85 - 115

Lab Sample ID: LLCS 885-1784/2-A
Matrix: Water
Analysis Batch: 2244

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 1784

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.500	0.492	J	mg/L		98	50 - 150
Magnesium	0.500	0.501	J	mg/L		100	50 - 150
Potassium	0.500	0.505	J	mg/L		101	50 - 150

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LLCS 885-1784/2-A
Matrix: Water
Analysis Batch: 2244

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 1784

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	0.500	0.648	J	mg/L		130	50 - 150

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-1711/1
Matrix: Water
Analysis Batch: 1711

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			03/14/24 12:58	1

Lab Sample ID: MB 885-1930/1
Matrix: Water
Analysis Batch: 1930

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			03/15/24 10:40	1

Lab Sample ID: LCS 885-1930/2
Matrix: Water
Analysis Batch: 1930

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 885-2053/2
Matrix: Water
Analysis Batch: 2053

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	ND		20	mg/L			03/19/24 12:50	1

Lab Sample ID: LCS 885-2053/3
Matrix: Water
Analysis Batch: 2053

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	84.8	77.6		mg/L		92	90 - 110

Lab Sample ID: MRL 885-2053/1
Matrix: Water
Analysis Batch: 2053

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	21.2	24.4		mg/L		115	50 - 150

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCS 885-2054/4
Matrix: Water
Analysis Batch: 2054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	101	104		umhos/cm		103	85 - 115

Lab Sample ID: MRL 885-2054/3
Matrix: Water
Analysis Batch: 2054

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	9.85	ND		umhos/cm		92	50 - 150

Lab Sample ID: LCS 885-2242/4
Matrix: Water
Analysis Batch: 2242

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	101	106		umhos/cm		106	85 - 115

Lab Sample ID: MRL 885-2242/3
Matrix: Water
Analysis Batch: 2242

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	9.85	ND		umhos/cm		97	50 - 150

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

GC/MS VOA

Analysis Batch: 2089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1	MW-9	Total/NA	Water	8260B	
885-1073-2	MW-10	Total/NA	Water	8260B	
885-1073-3	MW-12	Total/NA	Water	8260B	
885-1073-4	MW-15	Total/NA	Water	8260B	
885-1073-5	MW-18	Total/NA	Water	8260B	
885-1073-6	MW-27	Total/NA	Water	8260B	
885-1073-7	MW-28	Total/NA	Water	8260B	
885-1073-8	MW-29	Total/NA	Water	8260B	
885-1073-9	MW-30	Total/NA	Water	8260B	
885-1073-10	MW-31	Total/NA	Water	8260B	
885-1073-11	MW-13	Total/NA	Water	8260B	
MB 885-2089/3	Method Blank	Total/NA	Water	8260B	
LCS 885-2089/2	Lab Control Sample	Total/NA	Water	8260B	
885-1073-1 MSD	MW-9	Total/NA	Water	8260B	

Analysis Batch: 2150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1 MS	MW-9	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 1837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1	MW-9	Total/NA	Water	300.0	
885-1073-1	MW-9	Total/NA	Water	300.0	
885-1073-2	MW-10	Total/NA	Water	300.0	
885-1073-2	MW-10	Total/NA	Water	300.0	
885-1073-3	MW-12	Total/NA	Water	300.0	
885-1073-3	MW-12	Total/NA	Water	300.0	
885-1073-4	MW-15	Total/NA	Water	300.0	
885-1073-4	MW-15	Total/NA	Water	300.0	
885-1073-5	MW-18	Total/NA	Water	300.0	
885-1073-5	MW-18	Total/NA	Water	300.0	
885-1073-6	MW-27	Total/NA	Water	300.0	
885-1073-6	MW-27	Total/NA	Water	300.0	
885-1073-7	MW-28	Total/NA	Water	300.0	
885-1073-7	MW-28	Total/NA	Water	300.0	
885-1073-8	MW-29	Total/NA	Water	300.0	
885-1073-8	MW-29	Total/NA	Water	300.0	
885-1073-9	MW-30	Total/NA	Water	300.0	
885-1073-9	MW-30	Total/NA	Water	300.0	
885-1073-10	MW-31	Total/NA	Water	300.0	
885-1073-10	MW-31	Total/NA	Water	300.0	
885-1073-11	MW-13	Total/NA	Water	300.0	
885-1073-11	MW-13	Total/NA	Water	300.0	
MB 885-1837/4	Method Blank	Total/NA	Water	300.0	
LCS 885-1837/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-1837/3	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

HPLC/IC

Analysis Batch: 1838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1	MW-9	Total/NA	Water	300.0	
885-1073-2	MW-10	Total/NA	Water	300.0	
885-1073-3	MW-12	Total/NA	Water	300.0	
885-1073-3	MW-12	Total/NA	Water	300.0	
885-1073-4	MW-15	Total/NA	Water	300.0	
885-1073-5	MW-18	Total/NA	Water	300.0	
885-1073-5	MW-18	Total/NA	Water	300.0	
885-1073-6	MW-27	Total/NA	Water	300.0	
885-1073-7	MW-28	Total/NA	Water	300.0	
885-1073-8	MW-29	Total/NA	Water	300.0	
885-1073-9	MW-30	Total/NA	Water	300.0	
885-1073-10	MW-31	Total/NA	Water	300.0	
885-1073-11	MW-13	Total/NA	Water	300.0	
885-1073-11	MW-13	Total/NA	Water	300.0	
MB 885-1838/4	Method Blank	Total/NA	Water	300.0	
LCS 885-1838/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-1838/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 2064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-2	MW-10	Total/NA	Water	300.0	
885-1073-3	MW-12	Total/NA	Water	300.0	
885-1073-5	MW-18	Total/NA	Water	300.0	
885-1073-7	MW-28	Total/NA	Water	300.0	
885-1073-8	MW-29	Total/NA	Water	300.0	
885-1073-11	MW-13	Total/NA	Water	300.0	
MB 885-2064/5	Method Blank	Total/NA	Water	300.0	
LCS 885-2064/6	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-2064/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 1784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1	MW-9	Total Recoverable	Water	200.2	
885-1073-2	MW-10	Total Recoverable	Water	200.2	
885-1073-3	MW-12	Total Recoverable	Water	200.2	
885-1073-4	MW-15	Total Recoverable	Water	200.2	
885-1073-5	MW-18	Total Recoverable	Water	200.2	
885-1073-6	MW-27	Total Recoverable	Water	200.2	
885-1073-7	MW-28	Total Recoverable	Water	200.2	
885-1073-8	MW-29	Total Recoverable	Water	200.2	
885-1073-9	MW-30	Total Recoverable	Water	200.2	
885-1073-10	MW-31	Total Recoverable	Water	200.2	
885-1073-11	MW-13	Total Recoverable	Water	200.2	
MB 885-1784/1-A	Method Blank	Total Recoverable	Water	200.2	
LCS 885-1784/3-A	Lab Control Sample	Total Recoverable	Water	200.2	
LLCS 885-1784/2-A	Lab Control Sample	Total Recoverable	Water	200.2	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Metals

Analysis Batch: 2244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1	MW-9	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-1	MW-9	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-2	MW-10	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-3	MW-12	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-4	MW-15	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-5	MW-18	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-6	MW-27	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-7	MW-28	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-8	MW-29	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-9	MW-30	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-10	MW-31	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-11	MW-13	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-11	MW-13	Total Recoverable	Water	200.7 Rev 4.4	1784
MB 885-1784/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	1784
LCS 885-1784/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	1784
LLCS 885-1784/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	1784

Analysis Batch: 2393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1	MW-9	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-2	MW-10	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-3	MW-12	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-4	MW-15	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-5	MW-18	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-6	MW-27	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-7	MW-28	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-8	MW-29	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-9	MW-30	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-10	MW-31	Total Recoverable	Water	200.7 Rev 4.4	1784
885-1073-11	MW-13	Total Recoverable	Water	200.7 Rev 4.4	1784
MRL 885-2393/25	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

General Chemistry

Analysis Batch: 1711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1	MW-9	Total/NA	Water	2540C	
885-1073-2	MW-10	Total/NA	Water	2540C	
885-1073-3	MW-12	Total/NA	Water	2540C	
885-1073-4	MW-15	Total/NA	Water	2540C	
MB 885-1711/1	Method Blank	Total/NA	Water	2540C	
LCS 885-1711/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 1930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-5	MW-18	Total/NA	Water	2540C	
885-1073-6	MW-27	Total/NA	Water	2540C	
885-1073-7	MW-28	Total/NA	Water	2540C	
885-1073-8	MW-29	Total/NA	Water	2540C	
885-1073-9	MW-30	Total/NA	Water	2540C	
885-1073-10	MW-31	Total/NA	Water	2540C	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

General Chemistry (Continued)

Analysis Batch: 1930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-11	MW-13	Total/NA	Water	2540C	
MB 885-1930/1	Method Blank	Total/NA	Water	2540C	
LCS 885-1930/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 2053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1	MW-9	Total/NA	Water	SM 2320B	
885-1073-2	MW-10	Total/NA	Water	SM 2320B	
885-1073-3	MW-12	Total/NA	Water	SM 2320B	
885-1073-4	MW-15	Total/NA	Water	SM 2320B	
885-1073-5	MW-18	Total/NA	Water	SM 2320B	
885-1073-6	MW-27	Total/NA	Water	SM 2320B	
885-1073-7	MW-28	Total/NA	Water	SM 2320B	
885-1073-8	MW-29	Total/NA	Water	SM 2320B	
885-1073-9	MW-30	Total/NA	Water	SM 2320B	
885-1073-10	MW-31	Total/NA	Water	SM 2320B	
885-1073-11	MW-13	Total/NA	Water	SM 2320B	
MB 885-2053/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 885-2053/3	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 885-2053/1	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 2054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-1	MW-9	Total/NA	Water	SM 2510B	
885-1073-4	MW-15	Total/NA	Water	SM 2510B	
885-1073-6	MW-27	Total/NA	Water	SM 2510B	
885-1073-7	MW-28	Total/NA	Water	SM 2510B	
885-1073-8	MW-29	Total/NA	Water	SM 2510B	
885-1073-9	MW-30	Total/NA	Water	SM 2510B	
885-1073-10	MW-31	Total/NA	Water	SM 2510B	
LCS 885-2054/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-2054/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 2242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1073-2	MW-10	Total/NA	Water	SM 2510B	
885-1073-3	MW-12	Total/NA	Water	SM 2510B	
885-1073-5	MW-18	Total/NA	Water	SM 2510B	
885-1073-11	MW-13	Total/NA	Water	SM 2510B	
LCS 885-2242/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-2242/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-9

Lab Sample ID: 885-1073-1
Matrix: Water
Date Collected: 03/11/24 17:00
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 16:43
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 11:02
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 11:02
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 11:15
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	2244	JR	EET ALB	03/22/24 12:56
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		5	2244	JR	EET ALB	03/22/24 12:58
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		10	2393	JR	EET ALB	03/27/24 09:39
Total/NA	Analysis	2540C		1	1711	KB	EET ALB	03/14/24 12:58
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 13:25
Total/NA	Analysis	SM 2510B		1	2054	DL	EET ALB	03/19/24 13:25

Client Sample ID: MW-10

Lab Sample ID: 885-1073-2
Matrix: Water
Date Collected: 03/11/24 15:55
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 17:56
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 11:53
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 11:53
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 12:06
Total/NA	Analysis	300.0		200	2064	RC	EET ALB	03/20/24 10:59
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	2244	JR	EET ALB	03/22/24 13:00
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		20	2393	JR	EET ALB	03/27/24 09:41
Total/NA	Analysis	2540C		1	1711	KB	EET ALB	03/14/24 12:58
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 13:40
Total/NA	Analysis	SM 2510B		10	2242	DL	EET ALB	03/20/24 12:05

Client Sample ID: MW-12

Lab Sample ID: 885-1073-3
Matrix: Water
Date Collected: 03/11/24 14:45
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 18:21
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 12:19
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 12:19
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 12:32
Total/NA	Analysis	300.0		100	1838	RC	EET ALB	03/16/24 12:32
Total/NA	Analysis	300.0		500	2064	RC	EET ALB	03/20/24 11:11

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-12

Lab Sample ID: 885-1073-3
Matrix: Water
Date Collected: 03/11/24 14:45
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		5	2244	JR	EET ALB	03/22/24 13:05
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		50	2393	JR	EET ALB	03/27/24 09:42
Total/NA	Analysis	2540C		1	1711	KB	EET ALB	03/14/24 12:58
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 13:51
Total/NA	Analysis	SM 2510B		10	2242	DL	EET ALB	03/20/24 12:08

Client Sample ID: MW-15

Lab Sample ID: 885-1073-4
Matrix: Water
Date Collected: 03/11/24 16:45
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 18:45
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 12:45
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 12:45
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 12:57
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	2244	JR	EET ALB	03/22/24 13:12
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		10	2393	JR	EET ALB	03/27/24 09:44
Total/NA	Analysis	2540C		1	1711	KB	EET ALB	03/14/24 12:58
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 14:04
Total/NA	Analysis	SM 2510B		1	2054	DL	EET ALB	03/19/24 14:04

Client Sample ID: MW-18

Lab Sample ID: 885-1073-5
Matrix: Water
Date Collected: 03/11/24 14:20
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 19:09
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 13:10
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 13:10
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 13:23
Total/NA	Analysis	300.0		100	1838	RC	EET ALB	03/16/24 13:23
Total/NA	Analysis	300.0		1000	2064	RC	EET ALB	03/20/24 11:23
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		5	2244	JR	EET ALB	03/22/24 13:23
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		50	2393	JR	EET ALB	03/27/24 09:50
Total/NA	Analysis	2540C		1	1930	JU	EET ALB	03/15/24 10:40
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 14:16
Total/NA	Analysis	SM 2510B		10	2242	DL	EET ALB	03/20/24 12:17

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-27

Lab Sample ID: 885-1073-6
Matrix: Water
Date Collected: 03/11/24 16:20
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 19:34
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 13:36
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 13:36
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 13:49
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	2244	JR	EET ALB	03/22/24 13:25
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		10	2393	JR	EET ALB	03/27/24 09:51
Total/NA	Analysis	2540C		1	1930	JU	EET ALB	03/15/24 10:40
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 14:28
Total/NA	Analysis	SM 2510B		1	2054	DL	EET ALB	03/19/24 14:28

Client Sample ID: MW-28

Lab Sample ID: 885-1073-7
Matrix: Water
Date Collected: 03/11/24 13:55
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 19:58
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 14:28
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 14:28
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 14:40
Total/NA	Analysis	300.0		200	2064	RC	EET ALB	03/20/24 11:36
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	2244	JR	EET ALB	03/22/24 13:29
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		20	2393	JR	EET ALB	03/27/24 09:53
Total/NA	Analysis	2540C		1	1930	JU	EET ALB	03/15/24 10:40
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 14:45
Total/NA	Analysis	SM 2510B		1	2054	DL	EET ALB	03/19/24 14:45

Client Sample ID: MW-29

Lab Sample ID: 885-1073-8
Matrix: Water
Date Collected: 03/11/24 13:10
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 20:22
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 14:53
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 14:53
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 15:06
Total/NA	Analysis	300.0		200	2064	RC	EET ALB	03/20/24 12:13
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	2244	JR	EET ALB	03/22/24 13:32

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-29
Date Collected: 03/11/24 13:10
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		20	2393	JR	EET ALB	03/27/24 09:54
Total/NA	Analysis	2540C		1	1930	JU	EET ALB	03/15/24 10:40
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 14:58
Total/NA	Analysis	SM 2510B		1	2054	DL	EET ALB	03/19/24 14:58

Client Sample ID: MW-30
Date Collected: 03/11/24 17:40
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 20:47
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 15:19
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 15:19
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 15:32
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	2244	JR	EET ALB	03/22/24 17:54
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		10	2393	JR	EET ALB	03/27/24 09:56
Total/NA	Analysis	2540C		1	1930	JU	EET ALB	03/15/24 10:40
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 15:16
Total/NA	Analysis	SM 2510B		1	2054	DL	EET ALB	03/19/24 15:16

Client Sample ID: MW-31
Date Collected: 03/11/24 17:25
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 21:11
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 15:45
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 15:45
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 15:58
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		5	2244	JR	EET ALB	03/22/24 13:49
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		10	2393	JR	EET ALB	03/27/24 09:57
Total/NA	Analysis	2540C		1	1930	JU	EET ALB	03/15/24 10:40
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 15:29
Total/NA	Analysis	SM 2510B		1	2054	DL	EET ALB	03/19/24 15:29

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Client Sample ID: MW-13

Date Collected: 03/11/24 15:15
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1073-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2089	CM	EET ALB	03/20/24 21:36
Total/NA	Analysis	300.0		10	1837	RC	EET ALB	03/16/24 16:10
Total/NA	Analysis	300.0		10	1838	RC	EET ALB	03/16/24 16:10
Total/NA	Analysis	300.0		100	1837	RC	EET ALB	03/16/24 16:23
Total/NA	Analysis	300.0		100	1838	RC	EET ALB	03/16/24 16:23
Total/NA	Analysis	300.0		500	2064	RC	EET ALB	03/20/24 12:25
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	2244	JR	EET ALB	03/22/24 13:51
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		5	2244	JR	EET ALB	03/22/24 13:53
Total Recoverable	Prep	200.2			1784	JN	EET ALB	03/15/24 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		50	2393	JR	EET ALB	03/27/24 09:59
Total/NA	Analysis	2540C		1	1930	JU	EET ALB	03/15/24 10:40
Total/NA	Analysis	SM 2320B		1	2053	DL	EET ALB	03/19/24 15:41
Total/NA	Analysis	SM 2510B		100	2242	DL	EET ALB	03/20/24 12:20

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

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
200.7 Rev 4.4	200.2	Water	Calcium
200.7 Rev 4.4	200.2	Water	Magnesium
200.7 Rev 4.4	200.2	Water	Potassium
200.7 Rev 4.4	200.2	Water	Sodium
2540C		Water	Total Dissolved Solids
300.0		Water	Bromide
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate as N
300.0		Water	Nitrite as N
300.0		Water	Orthophosphate as P
300.0		Water	Sulfate
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-1073-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date

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

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total
SM 2320B		Water	Total Alkalinity as CaCO3
SM 2510B		Water	Specific Conductance

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Hilcorp Farmington NM

Mailing Address: 382 Road 3100 Aztec, NM 87410

Billing Address: PO Box 61529 Houston, TX 77208

Phone #: 505-486-9543

email or Fax#: Brandon.Sinclair@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:

X Standard ☐ Rush_____

Project Name:

Salty Dog Pipeline

Project #:

Project Manager:

Sampler: Brandon Sinclair

On Ice: ☐ Yes ☐ No

# of Coolers: 2 4oqi

Cooler Temp(including CF): 3.4+0.2=3.6 1.2+0.2=1.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type		Cations/Anions/TDS/pH/Alkalinity (1) Liter Plastic	Volatiles 8260 40ml VOA HCl
3-11	1700	Water	MW-9	Various	Various		X	X
	1555	Water	MW-10	Various	Various		X	X
	1445	Water	MW-12	Various	Various		X	X
	1645	Water	MW-15	Various	Various		X	X
	1420	Water	MW-18	Various	Various		X	X
	1620	Water	MW-27	Various	Various		X	X
	1355	Water	MW-28	Various	Various		X	X
	1310	Water	MW-29	Various	Various		X	X
	1740	Water	MW-30	Various	Various		X	X
	1725	Water	MW-31	Various	Various		X	X
		~~Water~~		~~Various~~	~~Various~~		X	X
		~~Water~~		~~Various~~	~~Various~~		X	X
		~~Water~~		~~Various~~	~~Various~~		X	X
* 3-11	1515		* MW-13				* X	* Y

885-1073 COC

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/12/24	1445		Amy Walker		3/12/24	1445
3/12/24	1740	Amy Walker		courier	3/13/24	7:35

Preserve the Cation/Anions in the lab. Cations: Calcium, Magnesium, Potassium and Sodium, Anions:Bromide, Chloride, Sulfate, Fluoride, Nitrate+Nitrite and Phosphorous.

* Cmc 3/13/24

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: 885-1073-1

Login Number: 1073 **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.	False	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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.	False	Refer to Job Narrative for details.
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/19/2024 9:59:15 AM

JOB DESCRIPTION

Salty Dog SWD

JOB NUMBER

885-7003-1

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
7/19/2024 9:59:15 AM

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

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Laboratory Job ID: 885-7003-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Job ID: 885-7003-1
Project/Site: Salty Dog SWD

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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: Salty Dog SWD

Job ID: 885-7003-1

Job ID: 885-7003-1 Eurofins Albuquerque

Job Narrative
885-7003-1

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 6/27/2024 7:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

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

HPLC/IC
Method 300_OF_28D_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 885-7604 were outside control limits for all analytes. See QC Sample Results for detail. Sample does not appear to have received LCS spike. associated laboratory control sample (LCS) recovery is within acceptance limits MS and MSD will not be re-run.

Method 300_OF_48H_PREC: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-28 (885-7003-4), MW-18 (885-7003-5), MW-27 (885-7003-6), MW-12 (885-7003-7) and MW-15 (885-7003-8).

Method 300_OF_48H_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 885-7605 were outside control limits for one or more analytes. See QC Sample Results for detail. Samples do not appear to have received LCS spike solution. Associated laboratory control sample (LCS) recovery is within acceptance limits, MS MSD injections will not be re-run.

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

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

General Chemistry
Method 2540C_SingleDry: The analysis volume selected for the following sample produced a base result greater than 200mg before calculation of the final result: MW-18 (885-7003-5). Visual inspection by the analyst identified no signs of trapped moisture in the beakers at their completed state. Based on this inspection, reanalysis was not performed. The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, these data have been qualified.

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: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-13
Date Collected: 06/26/24 11:00
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/09/24 03:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/09/24 03:17	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/09/24 03:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/09/24 03:17	1
1,1-Dichloroethane	ND		1.0		ug/L			07/09/24 03:17	1
1,1-Dichloroethene	ND		1.0		ug/L			07/09/24 03:17	1
1,1-Dichloropropene	ND		1.0		ug/L			07/09/24 03:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/09/24 03:17	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/09/24 03:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/09/24 03:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/09/24 03:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/09/24 03:17	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/09/24 03:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/09/24 03:17	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/09/24 03:17	1
1,2-Dichloropropane	ND		1.0		ug/L			07/09/24 03:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/09/24 03:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/09/24 03:17	1
1,3-Dichloropropane	ND		1.0		ug/L			07/09/24 03:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/09/24 03:17	1
1-Methylnaphthalene	ND		4.0		ug/L			07/09/24 03:17	1
2,2-Dichloropropane	ND		2.0		ug/L			07/09/24 03:17	1
2-Butanone	ND		10		ug/L			07/09/24 03:17	1
2-Chlorotoluene	ND		1.0		ug/L			07/09/24 03:17	1
2-Hexanone	ND		10		ug/L			07/09/24 03:17	1
2-Methylnaphthalene	ND		4.0		ug/L			07/09/24 03:17	1
4-Chlorotoluene	ND		1.0		ug/L			07/09/24 03:17	1
4-Isopropyltoluene	ND		1.0		ug/L			07/09/24 03:17	1
4-Methyl-2-pentanone	ND		10		ug/L			07/09/24 03:17	1
Acetone	ND		10		ug/L			07/09/24 03:17	1
Benzene	ND		1.0		ug/L			07/09/24 03:17	1
Bromobenzene	ND		1.0		ug/L			07/09/24 03:17	1
Bromodichloromethane	ND		1.0		ug/L			07/09/24 03:17	1
Dibromochloromethane	ND		1.0		ug/L			07/09/24 03:17	1
Bromoform	ND		1.0		ug/L			07/09/24 03:17	1
Bromomethane	ND		3.0		ug/L			07/09/24 03:17	1
Carbon disulfide	ND		10		ug/L			07/09/24 03:17	1
Carbon tetrachloride	ND		1.0		ug/L			07/09/24 03:17	1
Chlorobenzene	ND		1.0		ug/L			07/09/24 03:17	1
Chloroethane	ND		2.0		ug/L			07/09/24 03:17	1
Chloroform	ND		1.0		ug/L			07/09/24 03:17	1
Chloromethane	ND		3.0		ug/L			07/09/24 03:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 03:17	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 03:17	1
Dibromomethane	ND		1.0		ug/L			07/09/24 03:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/09/24 03:17	1
Ethylbenzene	ND		1.0		ug/L			07/09/24 03:17	1
Hexachlorobutadiene	ND		1.0		ug/L			07/09/24 03:17	1
Isopropylbenzene	ND		1.0		ug/L			07/09/24 03:17	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-13
Date Collected: 06/26/24 11:00
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/09/24 03:17	1
Methylene Chloride	ND		3.0		ug/L			07/09/24 03:17	1
n-Butylbenzene	ND		3.0		ug/L			07/09/24 03:17	1
N-Propylbenzene	ND		1.0		ug/L			07/09/24 03:17	1
Naphthalene	ND		2.0		ug/L			07/09/24 03:17	1
sec-Butylbenzene	ND		1.0		ug/L			07/09/24 03:17	1
Styrene	ND		1.0		ug/L			07/09/24 03:17	1
tert-Butylbenzene	ND		1.0		ug/L			07/09/24 03:17	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/09/24 03:17	1
Toluene	ND		1.0		ug/L			07/09/24 03:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 03:17	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 03:17	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/09/24 03:17	1
Trichlorofluoromethane	ND		1.0		ug/L			07/09/24 03:17	1
Vinyl chloride	ND		1.0		ug/L			07/09/24 03:17	1
Xylenes, Total	ND		1.5		ug/L			07/09/24 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*07/09/24 03:17*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/09/24 03:17*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*07/09/24 03:17*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*07/09/24 03:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**8.3**		2.0		mg/L			06/27/24 20:57	20
Nitrate as N	**2.6**		0.50		mg/L			06/27/24 20:45	5
Chloride	**7100**		500		mg/L			06/29/24 02:17	1000
Nitrite as N	ND		2.0		mg/L			06/27/24 20:57	20
Fluoride	ND		2.0		mg/L			06/27/24 20:57	20
Orthophosphate as P	ND		2.5		mg/L			06/27/24 20:45	5
Sulfate	**2100**		25		mg/L			06/29/24 02:04	50

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1600**		50		mg/L		06/28/24 10:07	07/08/24 11:00	50
Magnesium	**190**		5.0		mg/L		06/28/24 10:07	07/05/24 10:38	5
Potassium	**17**		5.0		mg/L		06/28/24 10:07	07/05/24 10:38	5
Sodium	**3500**		50		mg/L		06/28/24 10:07	07/08/24 11:00	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**18000**		500		mg/L			06/29/24 11:05	1
Total Alkalinity as CaCO3 (SM 2320B)	**160**		20		mg/L			07/01/24 20:17	1
Specific Conductance (SM 2510B)	**27000**		100		umhos/cm			07/08/24 14:18	10
pH (SM 4500 H+ B)	**7.8**	**HF**	0.1		SU			07/01/24 20:17	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-09
Date Collected: 06/26/24 10:30
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			07/09/24 03:45	2
1,1,1-Trichloroethane	ND		2.0		ug/L			07/09/24 03:45	2
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			07/09/24 03:45	2
1,1,2-Trichloroethane	ND		2.0		ug/L			07/09/24 03:45	2
1,1-Dichloroethane	ND		2.0		ug/L			07/09/24 03:45	2
1,1-Dichloroethene	ND		2.0		ug/L			07/09/24 03:45	2
1,1-Dichloropropene	ND		2.0		ug/L			07/09/24 03:45	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/09/24 03:45	2
1,2,3-Trichloropropane	ND		4.0		ug/L			07/09/24 03:45	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/09/24 03:45	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/09/24 03:45	2
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			07/09/24 03:45	2
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			07/09/24 03:45	2
1,2-Dichlorobenzene	ND		2.0		ug/L			07/09/24 03:45	2
1,2-Dichloroethane (EDC)	ND		2.0		ug/L			07/09/24 03:45	2
1,2-Dichloropropane	ND		2.0		ug/L			07/09/24 03:45	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/09/24 03:45	2
1,3-Dichlorobenzene	ND		2.0		ug/L			07/09/24 03:45	2
1,3-Dichloropropane	ND		2.0		ug/L			07/09/24 03:45	2
1,4-Dichlorobenzene	ND		2.0		ug/L			07/09/24 03:45	2
1-Methylnaphthalene	ND		8.0		ug/L			07/09/24 03:45	2
2,2-Dichloropropane	ND		4.0		ug/L			07/09/24 03:45	2
2-Butanone	ND		20		ug/L			07/09/24 03:45	2
2-Chlorotoluene	ND		2.0		ug/L			07/09/24 03:45	2
2-Hexanone	ND		20		ug/L			07/09/24 03:45	2
2-Methylnaphthalene	ND		8.0		ug/L			07/09/24 03:45	2
4-Chlorotoluene	ND		2.0		ug/L			07/09/24 03:45	2
4-Isopropyltoluene	ND		2.0		ug/L			07/09/24 03:45	2
4-Methyl-2-pentanone	ND		20		ug/L			07/09/24 03:45	2
Acetone	ND		20		ug/L			07/09/24 03:45	2
Benzene	ND		2.0		ug/L			07/09/24 03:45	2
Bromobenzene	ND		2.0		ug/L			07/09/24 03:45	2
Bromodichloromethane	ND		2.0		ug/L			07/09/24 03:45	2
Dibromochloromethane	ND		2.0		ug/L			07/09/24 03:45	2
Bromoform	ND		2.0		ug/L			07/09/24 03:45	2
Bromomethane	ND		6.0		ug/L			07/09/24 03:45	2
Carbon disulfide	ND		20		ug/L			07/09/24 03:45	2
Carbon tetrachloride	ND		2.0		ug/L			07/09/24 03:45	2
Chlorobenzene	ND		2.0		ug/L			07/09/24 03:45	2
Chloroethane	ND		4.0		ug/L			07/09/24 03:45	2
Chloroform	ND		2.0		ug/L			07/09/24 03:45	2
Chloromethane	ND		6.0		ug/L			07/09/24 03:45	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			07/09/24 03:45	2
cis-1,3-Dichloropropene	ND		2.0		ug/L			07/09/24 03:45	2
Dibromomethane	ND		2.0		ug/L			07/09/24 03:45	2
Dichlorodifluoromethane	ND		2.0		ug/L			07/09/24 03:45	2
Ethylbenzene	ND		2.0		ug/L			07/09/24 03:45	2
Hexachlorobutadiene	ND		2.0		ug/L			07/09/24 03:45	2
Isopropylbenzene	ND		2.0		ug/L			07/09/24 03:45	2

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-09

Date Collected: 06/26/24 10:30
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0		ug/L			07/09/24 03:45	2
Methylene Chloride	ND		6.0		ug/L			07/09/24 03:45	2
n-Butylbenzene	ND		6.0		ug/L			07/09/24 03:45	2
N-Propylbenzene	ND		2.0		ug/L			07/09/24 03:45	2
Naphthalene	ND		4.0		ug/L			07/09/24 03:45	2
sec-Butylbenzene	ND		2.0		ug/L			07/09/24 03:45	2
Styrene	ND		2.0		ug/L			07/09/24 03:45	2
tert-Butylbenzene	ND		2.0		ug/L			07/09/24 03:45	2
Tetrachloroethene (PCE)	ND		2.0		ug/L			07/09/24 03:45	2
Toluene	ND		2.0		ug/L			07/09/24 03:45	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			07/09/24 03:45	2
trans-1,3-Dichloropropene	ND		2.0		ug/L			07/09/24 03:45	2
Trichloroethene (TCE)	ND		2.0		ug/L			07/09/24 03:45	2
Trichlorofluoromethane	ND		2.0		ug/L			07/09/24 03:45	2
Vinyl chloride	ND		2.0		ug/L			07/09/24 03:45	2
Xylenes, Total	ND		3.0		ug/L			07/09/24 03:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/09/24 03:45*	*2*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/09/24 03:45*	*2*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/09/24 03:45*	*2*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*07/09/24 03:45*	*2*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.8**		0.50		mg/L			06/27/24 21:10	5
Nitrate as N	ND		0.50		mg/L			06/27/24 21:10	5
Chloride	**940**		250		mg/L			06/29/24 02:29	500
Nitrite as N	ND		2.0		mg/L			06/27/24 21:22	20
Fluoride	**0.98**		0.50		mg/L			06/27/24 21:10	5
Orthophosphate as P	ND		2.5		mg/L			06/27/24 21:10	5
Sulfate	**2700**		250		mg/L			06/29/24 02:29	500

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**690**		20		mg/L		06/28/24 10:07	07/08/24 11:02	20
Magnesium	**150**		5.0		mg/L		06/28/24 10:07	07/05/24 10:48	5
Potassium	**9.0**		1.0		mg/L		06/28/24 10:07	07/05/24 10:46	1
Sodium	**1300**		20		mg/L		06/28/24 10:07	07/08/24 11:02	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**6900**		500		mg/L			06/29/24 11:05	1
Total Alkalinity as CaCO3 (SM 2320B)	**350**		20		mg/L			07/01/24 20:27	1
Specific Conductance (SM 2510B)	**8000**		10		umhos/cm			07/08/24 14:04	1
pH (SM 4500 H+ B)	**8.0**	**HF**	0.1		SU			07/01/24 20:27	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-29
Date Collected: 06/25/24 08:46
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/09/24 04:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/09/24 04:14	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/09/24 04:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/09/24 04:14	1
1,1-Dichloroethane	ND		1.0		ug/L			07/09/24 04:14	1
1,1-Dichloroethene	ND		1.0		ug/L			07/09/24 04:14	1
1,1-Dichloropropene	ND		1.0		ug/L			07/09/24 04:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/09/24 04:14	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/09/24 04:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/09/24 04:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/09/24 04:14	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/09/24 04:14	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/09/24 04:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/09/24 04:14	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/09/24 04:14	1
1,2-Dichloropropane	ND		1.0		ug/L			07/09/24 04:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/09/24 04:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/09/24 04:14	1
1,3-Dichloropropane	ND		1.0		ug/L			07/09/24 04:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/09/24 04:14	1
1-Methylnaphthalene	ND		4.0		ug/L			07/09/24 04:14	1
2,2-Dichloropropane	ND		2.0		ug/L			07/09/24 04:14	1
2-Butanone	ND		10		ug/L			07/09/24 04:14	1
2-Chlorotoluene	ND		1.0		ug/L			07/09/24 04:14	1
2-Hexanone	ND		10		ug/L			07/09/24 04:14	1
2-Methylnaphthalene	ND		4.0		ug/L			07/09/24 04:14	1
4-Chlorotoluene	ND		1.0		ug/L			07/09/24 04:14	1
4-Isopropyltoluene	ND		1.0		ug/L			07/09/24 04:14	1
4-Methyl-2-pentanone	ND		10		ug/L			07/09/24 04:14	1
Acetone	ND		10		ug/L			07/09/24 04:14	1
Benzene	ND		1.0		ug/L			07/09/24 04:14	1
Bromobenzene	ND		1.0		ug/L			07/09/24 04:14	1
Bromodichloromethane	ND		1.0		ug/L			07/09/24 04:14	1
Dibromochloromethane	ND		1.0		ug/L			07/09/24 04:14	1
Bromoform	ND		1.0		ug/L			07/09/24 04:14	1
Bromomethane	ND		3.0		ug/L			07/09/24 04:14	1
Carbon disulfide	ND		10		ug/L			07/09/24 04:14	1
Carbon tetrachloride	ND		1.0		ug/L			07/09/24 04:14	1
Chlorobenzene	ND		1.0		ug/L			07/09/24 04:14	1
Chloroethane	ND		2.0		ug/L			07/09/24 04:14	1
Chloroform	ND		1.0		ug/L			07/09/24 04:14	1
Chloromethane	ND		3.0		ug/L			07/09/24 04:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 04:14	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 04:14	1
Dibromomethane	ND		1.0		ug/L			07/09/24 04:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/09/24 04:14	1
Ethylbenzene	ND		1.0		ug/L			07/09/24 04:14	1
Hexachlorobutadiene	ND		1.0		ug/L			07/09/24 04:14	1
Isopropylbenzene	ND		1.0		ug/L			07/09/24 04:14	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-29

Date Collected: 06/25/24 08:46
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/09/24 04:14	1
Methylene Chloride	ND		3.0		ug/L			07/09/24 04:14	1
n-Butylbenzene	ND		3.0		ug/L			07/09/24 04:14	1
N-Propylbenzene	ND		1.0		ug/L			07/09/24 04:14	1
Naphthalene	ND		2.0		ug/L			07/09/24 04:14	1
sec-Butylbenzene	ND		1.0		ug/L			07/09/24 04:14	1
Styrene	ND		1.0		ug/L			07/09/24 04:14	1
tert-Butylbenzene	ND		1.0		ug/L			07/09/24 04:14	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/09/24 04:14	1
Toluene	ND		1.0		ug/L			07/09/24 04:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 04:14	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 04:14	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/09/24 04:14	1
Trichlorofluoromethane	ND		1.0		ug/L			07/09/24 04:14	1
Vinyl chloride	ND		1.0		ug/L			07/09/24 04:14	1
Xylenes, Total	ND		1.5		ug/L			07/09/24 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/09/24 04:14*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/09/24 04:14*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/09/24 04:14*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*07/09/24 04:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**2.5**		0.50		mg/L			06/27/24 21:35	5
Nitrate as N	ND	H	0.50		mg/L			06/27/24 21:35	5
Chloride	**2000**		100		mg/L			06/29/24 02:42	200
Nitrite as N	ND	H	2.0		mg/L			06/27/24 21:47	20
Fluoride	**0.72**		0.50		mg/L			06/27/24 21:35	5
Orthophosphate as P	ND	H	2.5		mg/L			06/27/24 21:35	5
Sulfate	**2400**		100		mg/L			06/29/24 02:42	200

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**650**		20		mg/L		06/28/24 10:07	07/08/24 11:04	20
Magnesium	**85**		1.0		mg/L		06/28/24 10:07	07/05/24 10:50	1
Potassium	**14**		1.0		mg/L		06/28/24 10:07	07/05/24 10:50	1
Sodium	**1800**		20		mg/L		06/28/24 10:07	07/08/24 11:04	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**7300**		500		mg/L			06/27/24 14:07	1
Total Alkalinity as CaCO3 (SM 2320B)	**250**		20		mg/L			07/01/24 20:42	1
Specific Conductance (SM 2510B)	**11000**		100		umhos/cm			07/08/24 14:21	10
pH (SM 4500 H+ B)	**7.8**	**HF**	0.1		SU			07/01/24 20:42	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-28
Date Collected: 06/25/24 09:05
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/08/24 20:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/24 20:37	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/08/24 20:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/08/24 20:37	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/24 20:37	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/24 20:37	1
1,1-Dichloropropene	ND		1.0		ug/L			07/08/24 20:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/08/24 20:37	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/08/24 20:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/08/24 20:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/08/24 20:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/08/24 20:37	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/08/24 20:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/08/24 20:37	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/08/24 20:37	1
1,2-Dichloropropane	ND		1.0		ug/L			07/08/24 20:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/08/24 20:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/08/24 20:37	1
1,3-Dichloropropane	ND		1.0		ug/L			07/08/24 20:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/08/24 20:37	1
1-Methylnaphthalene	ND		4.0		ug/L			07/08/24 20:37	1
2,2-Dichloropropane	ND		2.0		ug/L			07/08/24 20:37	1
2-Butanone	ND		10		ug/L			07/08/24 20:37	1
2-Chlorotoluene	ND		1.0		ug/L			07/08/24 20:37	1
2-Hexanone	ND		10		ug/L			07/08/24 20:37	1
2-Methylnaphthalene	ND		4.0		ug/L			07/08/24 20:37	1
4-Chlorotoluene	ND		1.0		ug/L			07/08/24 20:37	1
4-Isopropyltoluene	ND		1.0		ug/L			07/08/24 20:37	1
4-Methyl-2-pentanone	ND		10		ug/L			07/08/24 20:37	1
Acetone	ND		10		ug/L			07/08/24 20:37	1
Benzene	ND		1.0		ug/L			07/08/24 20:37	1
Bromobenzene	ND		1.0		ug/L			07/08/24 20:37	1
Bromodichloromethane	ND		1.0		ug/L			07/08/24 20:37	1
Dibromochloromethane	ND		1.0		ug/L			07/08/24 20:37	1
Bromoform	ND		1.0		ug/L			07/08/24 20:37	1
Bromomethane	ND		3.0		ug/L			07/08/24 20:37	1
Carbon disulfide	ND		10		ug/L			07/08/24 20:37	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/24 20:37	1
Chlorobenzene	ND		1.0		ug/L			07/08/24 20:37	1
Chloroethane	ND		2.0		ug/L			07/08/24 20:37	1
Chloroform	ND		1.0		ug/L			07/08/24 20:37	1
Chloromethane	ND		3.0		ug/L			07/08/24 20:37	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/08/24 20:37	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/08/24 20:37	1
Dibromomethane	ND		1.0		ug/L			07/08/24 20:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/24 20:37	1
Ethylbenzene	ND		1.0		ug/L			07/08/24 20:37	1
Hexachlorobutadiene	ND		1.0		ug/L			07/08/24 20:37	1
Isopropylbenzene	ND		1.0		ug/L			07/08/24 20:37	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-28

Date Collected: 06/25/24 09:05
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/08/24 20:37	1
Methylene Chloride	ND		3.0		ug/L			07/08/24 20:37	1
n-Butylbenzene	ND		3.0		ug/L			07/08/24 20:37	1
N-Propylbenzene	ND		1.0		ug/L			07/08/24 20:37	1
Naphthalene	ND		2.0		ug/L			07/08/24 20:37	1
sec-Butylbenzene	ND		1.0		ug/L			07/08/24 20:37	1
Styrene	ND		1.0		ug/L			07/08/24 20:37	1
tert-Butylbenzene	ND		1.0		ug/L			07/08/24 20:37	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/08/24 20:37	1
Toluene	ND		1.0		ug/L			07/08/24 20:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/08/24 20:37	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/08/24 20:37	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/08/24 20:37	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/24 20:37	1
Vinyl chloride	ND		1.0		ug/L			07/08/24 20:37	1
Xylenes, Total	ND		1.5		ug/L			07/08/24 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/08/24 20:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/08/24 20:37*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/08/24 20:37*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*07/08/24 20:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**3.6**	**F1**	0.50		mg/L			06/27/24 21:59	5
Nitrate as N	**2.2**	**H F1**	0.50		mg/L			06/27/24 21:59	5
Chloride	**2900**		250		mg/L			06/29/24 03:19	500
Nitrite as N	ND	H	2.0		mg/L			06/27/24 22:12	20
Fluoride	**0.59**	**F1**	0.50		mg/L			06/27/24 21:59	5
Orthophosphate as P	ND	H F1	2.5		mg/L			06/27/24 21:59	5
Sulfate	**2400**		250		mg/L			06/29/24 03:19	500

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**880**		50		mg/L		06/28/24 10:07	07/08/24 11:06	50
Magnesium	**120**		5.0		mg/L		06/28/24 10:07	07/05/24 10:55	5
Potassium	**18**		1.0		mg/L		06/28/24 10:07	07/05/24 10:53	1
Sodium	**2200**		50		mg/L		06/28/24 10:07	07/08/24 11:06	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**9600**		500		mg/L			06/27/24 14:07	1
Total Alkalinity as CaCO3 (SM 2320B)	**240**		20		mg/L			07/01/24 20:55	1
Specific Conductance (SM 2510B)	**16000**		100		umhos/cm			07/08/24 14:24	10
pH (SM 4500 H+ B)	**7.8**	**HF**	0.1		SU			07/01/24 20:55	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-18
Date Collected: 06/25/24 09:49
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/08/24 21:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/24 21:06	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/08/24 21:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/08/24 21:06	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/24 21:06	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/24 21:06	1
1,1-Dichloropropene	ND		1.0		ug/L			07/08/24 21:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/08/24 21:06	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/08/24 21:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/08/24 21:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/08/24 21:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/08/24 21:06	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/08/24 21:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/08/24 21:06	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/08/24 21:06	1
1,2-Dichloropropane	ND		1.0		ug/L			07/08/24 21:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/08/24 21:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/08/24 21:06	1
1,3-Dichloropropane	ND		1.0		ug/L			07/08/24 21:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/08/24 21:06	1
1-Methylnaphthalene	ND		4.0		ug/L			07/08/24 21:06	1
2,2-Dichloropropane	ND		2.0		ug/L			07/08/24 21:06	1
2-Butanone	ND		10		ug/L			07/08/24 21:06	1
2-Chlorotoluene	ND		1.0		ug/L			07/08/24 21:06	1
2-Hexanone	ND		10		ug/L			07/08/24 21:06	1
2-Methylnaphthalene	ND		4.0		ug/L			07/08/24 21:06	1
4-Chlorotoluene	ND		1.0		ug/L			07/08/24 21:06	1
4-Isopropyltoluene	ND		1.0		ug/L			07/08/24 21:06	1
4-Methyl-2-pentanone	ND		10		ug/L			07/08/24 21:06	1
Acetone	ND		10		ug/L			07/08/24 21:06	1
Benzene	ND		1.0		ug/L			07/08/24 21:06	1
Bromobenzene	ND		1.0		ug/L			07/08/24 21:06	1
Bromodichloromethane	ND		1.0		ug/L			07/08/24 21:06	1
Dibromochloromethane	ND		1.0		ug/L			07/08/24 21:06	1
Bromoform	ND		1.0		ug/L			07/08/24 21:06	1
Bromomethane	ND		3.0		ug/L			07/08/24 21:06	1
Carbon disulfide	ND		10		ug/L			07/08/24 21:06	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/24 21:06	1
Chlorobenzene	ND		1.0		ug/L			07/08/24 21:06	1
Chloroethane	ND		2.0		ug/L			07/08/24 21:06	1
Chloroform	ND		1.0		ug/L			07/08/24 21:06	1
Chloromethane	ND		3.0		ug/L			07/08/24 21:06	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/08/24 21:06	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/08/24 21:06	1
Dibromomethane	ND		1.0		ug/L			07/08/24 21:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/24 21:06	1
Ethylbenzene	ND		1.0		ug/L			07/08/24 21:06	1
Hexachlorobutadiene	ND		1.0		ug/L			07/08/24 21:06	1
Isopropylbenzene	ND		1.0		ug/L			07/08/24 21:06	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-18

Date Collected: 06/25/24 09:49
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/08/24 21:06	1
Methylene Chloride	ND		3.0		ug/L			07/08/24 21:06	1
n-Butylbenzene	ND		3.0		ug/L			07/08/24 21:06	1
N-Propylbenzene	ND		1.0		ug/L			07/08/24 21:06	1
Naphthalene	ND		2.0		ug/L			07/08/24 21:06	1
sec-Butylbenzene	ND		1.0		ug/L			07/08/24 21:06	1
Styrene	ND		1.0		ug/L			07/08/24 21:06	1
tert-Butylbenzene	ND		1.0		ug/L			07/08/24 21:06	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/08/24 21:06	1
Toluene	ND		1.0		ug/L			07/08/24 21:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/08/24 21:06	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/08/24 21:06	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/08/24 21:06	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/24 21:06	1
Vinyl chloride	ND		1.0		ug/L			07/08/24 21:06	1
Xylenes, Total	ND		1.5		ug/L			07/08/24 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/08/24 21:06*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/08/24 21:06*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*07/08/24 21:06*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/08/24 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**11**		2.0		mg/L			06/27/24 23:26	20
Nitrate as N	**5.2**	**H**	0.50		mg/L			06/27/24 23:13	5
Chloride	**9000**		500		mg/L			06/29/24 03:31	1000
Nitrite as N	ND	H	2.0		mg/L			06/27/24 23:26	20
Fluoride	ND		2.0		mg/L			06/27/24 23:26	20
Orthophosphate as P	ND	H	2.5		mg/L			06/27/24 23:13	5
Sulfate	**1900**		500		mg/L			06/29/24 03:31	1000

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**2000**		50		mg/L		06/28/24 10:07	07/08/24 11:08	50
Magnesium	**290**		5.0		mg/L		06/28/24 10:07	07/05/24 10:59	5
Potassium	**27**		5.0		mg/L		06/28/24 10:07	07/05/24 10:59	5
Sodium	**4600**		50		mg/L		06/28/24 10:07	07/08/24 11:08	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**24000**	**E**	500		mg/L			06/27/24 14:07	1
Total Alkalinity as CaCO3 (SM 2320B)	**190**		20		mg/L			07/01/24 21:07	1
Specific Conductance (SM 2510B)	**33000**		100		umhos/cm			07/08/24 14:26	10
pH (SM 4500 H+ B)	**7.6**	**HF**	0.1		SU			07/01/24 21:07	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-27
Date Collected: 06/25/24 12:10
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			07/08/24 21:34	2
1,1,1-Trichloroethane	ND		2.0		ug/L			07/08/24 21:34	2
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			07/08/24 21:34	2
1,1,2-Trichloroethane	ND		2.0		ug/L			07/08/24 21:34	2
1,1-Dichloroethane	ND		2.0		ug/L			07/08/24 21:34	2
1,1-Dichloroethene	ND		2.0		ug/L			07/08/24 21:34	2
1,1-Dichloropropene	ND		2.0		ug/L			07/08/24 21:34	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/08/24 21:34	2
1,2,3-Trichloropropane	ND		4.0		ug/L			07/08/24 21:34	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/08/24 21:34	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/08/24 21:34	2
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			07/08/24 21:34	2
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			07/08/24 21:34	2
1,2-Dichlorobenzene	ND		2.0		ug/L			07/08/24 21:34	2
1,2-Dichloroethane (EDC)	ND		2.0		ug/L			07/08/24 21:34	2
1,2-Dichloropropane	ND		2.0		ug/L			07/08/24 21:34	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/08/24 21:34	2
1,3-Dichlorobenzene	ND		2.0		ug/L			07/08/24 21:34	2
1,3-Dichloropropane	ND		2.0		ug/L			07/08/24 21:34	2
1,4-Dichlorobenzene	ND		2.0		ug/L			07/08/24 21:34	2
1-Methylnaphthalene	ND		8.0		ug/L			07/08/24 21:34	2
2,2-Dichloropropane	ND		4.0		ug/L			07/08/24 21:34	2
2-Butanone	ND		20		ug/L			07/08/24 21:34	2
2-Chlorotoluene	ND		2.0		ug/L			07/08/24 21:34	2
2-Hexanone	ND		20		ug/L			07/08/24 21:34	2
2-Methylnaphthalene	ND		8.0		ug/L			07/08/24 21:34	2
4-Chlorotoluene	ND		2.0		ug/L			07/08/24 21:34	2
4-Isopropyltoluene	ND		2.0		ug/L			07/08/24 21:34	2
4-Methyl-2-pentanone	ND		20		ug/L			07/08/24 21:34	2
Acetone	ND		20		ug/L			07/08/24 21:34	2
Benzene	ND		2.0		ug/L			07/08/24 21:34	2
Bromobenzene	ND		2.0		ug/L			07/08/24 21:34	2
Bromodichloromethane	ND		2.0		ug/L			07/08/24 21:34	2
Dibromochloromethane	ND		2.0		ug/L			07/08/24 21:34	2
Bromoform	ND		2.0		ug/L			07/08/24 21:34	2
Bromomethane	ND		6.0		ug/L			07/08/24 21:34	2
Carbon disulfide	ND		20		ug/L			07/08/24 21:34	2
Carbon tetrachloride	ND		2.0		ug/L			07/08/24 21:34	2
Chlorobenzene	ND		2.0		ug/L			07/08/24 21:34	2
Chloroethane	ND		4.0		ug/L			07/08/24 21:34	2
Chloroform	ND		2.0		ug/L			07/08/24 21:34	2
Chloromethane	ND		6.0		ug/L			07/08/24 21:34	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			07/08/24 21:34	2
cis-1,3-Dichloropropene	ND		2.0		ug/L			07/08/24 21:34	2
Dibromomethane	ND		2.0		ug/L			07/08/24 21:34	2
Dichlorodifluoromethane	ND		2.0		ug/L			07/08/24 21:34	2
Ethylbenzene	ND		2.0		ug/L			07/08/24 21:34	2
Hexachlorobutadiene	ND		2.0		ug/L			07/08/24 21:34	2
Isopropylbenzene	ND		2.0		ug/L			07/08/24 21:34	2

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-27

Date Collected: 06/25/24 12:10
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-6

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0		ug/L			07/08/24 21:34	2
Methylene Chloride	ND		6.0		ug/L			07/08/24 21:34	2
n-Butylbenzene	ND		6.0		ug/L			07/08/24 21:34	2
N-Propylbenzene	ND		2.0		ug/L			07/08/24 21:34	2
Naphthalene	ND		4.0		ug/L			07/08/24 21:34	2
sec-Butylbenzene	ND		2.0		ug/L			07/08/24 21:34	2
Styrene	ND		2.0		ug/L			07/08/24 21:34	2
tert-Butylbenzene	ND		2.0		ug/L			07/08/24 21:34	2
Tetrachloroethene (PCE)	ND		2.0		ug/L			07/08/24 21:34	2
Toluene	ND		2.0		ug/L			07/08/24 21:34	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			07/08/24 21:34	2
trans-1,3-Dichloropropene	ND		2.0		ug/L			07/08/24 21:34	2
Trichloroethene (TCE)	ND		2.0		ug/L			07/08/24 21:34	2
Trichlorofluoromethane	ND		2.0		ug/L			07/08/24 21:34	2
Vinyl chloride	ND		2.0		ug/L			07/08/24 21:34	2
Xylenes, Total	ND		3.0		ug/L			07/08/24 21:34	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*07/08/24 21:34*	*2*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/08/24 21:34*	*2*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/08/24 21:34*	*2*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*07/08/24 21:34*	*2*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.3**		0.50		mg/L			06/27/24 23:38	5
Nitrate as N	**0.56**	**H**	0.50		mg/L			06/27/24 23:38	5
Chloride	**780**		50		mg/L			06/29/24 03:43	100
Nitrite as N	ND	H	2.0		mg/L			06/27/24 23:50	20
Fluoride	**0.66**		0.50		mg/L			06/27/24 23:38	5
Orthophosphate as P	ND	H	2.5		mg/L			06/27/24 23:38	5
Sulfate	**2100**		50		mg/L			06/29/24 03:43	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**740**		10		mg/L		06/28/24 10:07	07/08/24 11:10	10
Magnesium	**91**		1.0		mg/L		06/28/24 10:07	07/05/24 11:01	1
Potassium	**20**		1.0		mg/L		06/28/24 10:07	07/05/24 11:01	1
Sodium	**800**		10		mg/L		06/28/24 10:07	07/08/24 11:10	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**5100**		500		mg/L			06/27/24 14:07	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			07/01/24 21:22	1
Specific Conductance (SM 2510B)	**6100**		10		umhos/cm			07/08/24 14:12	1
pH (SM 4500 H+ B)	**7.8**	**HF**	0.1		SU			07/01/24 21:22	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-12

Date Collected: 06/25/24 10:25
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-7

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			07/09/24 00:25	2
1,1,1-Trichloroethane	ND		2.0		ug/L			07/09/24 00:25	2
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			07/09/24 00:25	2
1,1,2-Trichloroethane	ND		2.0		ug/L			07/09/24 00:25	2
1,1-Dichloroethane	ND		2.0		ug/L			07/09/24 00:25	2
1,1-Dichloroethene	ND	F1	2.0		ug/L			07/09/24 00:25	2
1,1-Dichloropropene	ND		2.0		ug/L			07/09/24 00:25	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/09/24 00:25	2
1,2,3-Trichloropropane	ND		4.0		ug/L			07/09/24 00:25	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/09/24 00:25	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/09/24 00:25	2
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			07/09/24 00:25	2
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			07/09/24 00:25	2
1,2-Dichlorobenzene	ND		2.0		ug/L			07/09/24 00:25	2
1,2-Dichloroethane (EDC)	ND		2.0		ug/L			07/09/24 00:25	2
1,2-Dichloropropane	ND		2.0		ug/L			07/09/24 00:25	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/09/24 00:25	2
1,3-Dichlorobenzene	ND		2.0		ug/L			07/09/24 00:25	2
1,3-Dichloropropane	ND		2.0		ug/L			07/09/24 00:25	2
1,4-Dichlorobenzene	ND		2.0		ug/L			07/09/24 00:25	2
1-Methylnaphthalene	ND		8.0		ug/L			07/09/24 00:25	2
2,2-Dichloropropane	ND		4.0		ug/L			07/09/24 00:25	2
2-Butanone	ND		20		ug/L			07/09/24 00:25	2
2-Chlorotoluene	ND		2.0		ug/L			07/09/24 00:25	2
2-Hexanone	ND		20		ug/L			07/09/24 00:25	2
2-Methylnaphthalene	ND		8.0		ug/L			07/09/24 00:25	2
4-Chlorotoluene	ND		2.0		ug/L			07/09/24 00:25	2
4-Isopropyltoluene	ND		2.0		ug/L			07/09/24 00:25	2
4-Methyl-2-pentanone	ND		20		ug/L			07/09/24 00:25	2
Acetone	ND		20		ug/L			07/09/24 00:25	2
Benzene	ND	F1	2.0		ug/L			07/09/24 00:25	2
Bromobenzene	ND		2.0		ug/L			07/09/24 00:25	2
Bromodichloromethane	ND		2.0		ug/L			07/09/24 00:25	2
Dibromochloromethane	ND		2.0		ug/L			07/09/24 00:25	2
Bromoform	ND		2.0		ug/L			07/09/24 00:25	2
Bromomethane	ND		6.0		ug/L			07/09/24 00:25	2
Carbon disulfide	ND		20		ug/L			07/09/24 00:25	2
Carbon tetrachloride	ND		2.0		ug/L			07/09/24 00:25	2
Chlorobenzene	ND	F1 F2	2.0		ug/L			07/09/24 00:25	2
Chloroethane	ND		4.0		ug/L			07/09/24 00:25	2
Chloroform	ND		2.0		ug/L			07/09/24 00:25	2
Chloromethane	ND		6.0		ug/L			07/09/24 00:25	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			07/09/24 00:25	2
cis-1,3-Dichloropropene	ND		2.0		ug/L			07/09/24 00:25	2
Dibromomethane	ND		2.0		ug/L			07/09/24 00:25	2
Dichlorodifluoromethane	ND		2.0		ug/L			07/09/24 00:25	2
Ethylbenzene	ND		2.0		ug/L			07/09/24 00:25	2
Hexachlorobutadiene	ND		2.0		ug/L			07/09/24 00:25	2
Isopropylbenzene	ND		2.0		ug/L			07/09/24 00:25	2

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-12

Date Collected: 06/25/24 10:25
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0		ug/L			07/09/24 00:25	2
Methylene Chloride	ND		6.0		ug/L			07/09/24 00:25	2
n-Butylbenzene	ND		6.0		ug/L			07/09/24 00:25	2
N-Propylbenzene	ND		2.0		ug/L			07/09/24 00:25	2
Naphthalene	ND		4.0		ug/L			07/09/24 00:25	2
sec-Butylbenzene	ND		2.0		ug/L			07/09/24 00:25	2
Styrene	ND		2.0		ug/L			07/09/24 00:25	2
tert-Butylbenzene	ND		2.0		ug/L			07/09/24 00:25	2
Tetrachloroethene (PCE)	ND		2.0		ug/L			07/09/24 00:25	2
Toluene	ND	F1	2.0		ug/L			07/09/24 00:25	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			07/09/24 00:25	2
trans-1,3-Dichloropropene	ND		2.0		ug/L			07/09/24 00:25	2
Trichloroethene (TCE)	ND		2.0		ug/L			07/09/24 00:25	2
Trichlorofluoromethane	ND		2.0		ug/L			07/09/24 00:25	2
Vinyl chloride	ND		2.0		ug/L			07/09/24 00:25	2
Xylenes, Total	ND		3.0		ug/L			07/09/24 00:25	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*07/09/24 00:25*	*2*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/09/24 00:25*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/09/24 00:25*	*2*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/09/24 00:25*	*2*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**9.3**		2.0		mg/L			06/28/24 00:15	20
Nitrate as N	**1.1**	**H**	0.50		mg/L			06/28/24 00:03	5
Chloride	**7700**		500		mg/L			06/29/24 04:08	1000
Nitrite as N	ND	H	2.0		mg/L			06/28/24 00:15	20
Fluoride	ND		0.50		mg/L			06/28/24 00:03	5
Orthophosphate as P	ND	H	2.5		mg/L			06/28/24 00:03	5
Sulfate	**1100**		25		mg/L			06/29/24 03:56	50

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1800**		50		mg/L		06/28/24 10:07	07/08/24 11:12	50
Magnesium	**280**		5.0		mg/L		06/28/24 10:07	07/05/24 11:14	5
Potassium	**52**		1.0		mg/L		06/28/24 10:07	07/05/24 11:13	1
Sodium	**3300**		50		mg/L		06/28/24 10:07	07/08/24 11:12	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**19000**		500		mg/L			06/27/24 14:07	1
Total Alkalinity as CaCO3 (SM 2320B)	**160**		20		mg/L			07/01/24 21:34	1
Specific Conductance (SM 2510B)	**27000**		100		umhos/cm			07/08/24 14:29	10
pH (SM 4500 H+ B)	**7.7**	**HF**	0.1		SU			07/01/24 21:34	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-15
Date Collected: 06/25/24 12:20
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/09/24 01:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/09/24 01:51	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/09/24 01:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/09/24 01:51	1
1,1-Dichloroethane	ND		1.0		ug/L			07/09/24 01:51	1
1,1-Dichloroethene	ND		1.0		ug/L			07/09/24 01:51	1
1,1-Dichloropropene	ND		1.0		ug/L			07/09/24 01:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/09/24 01:51	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/09/24 01:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/09/24 01:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/09/24 01:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/09/24 01:51	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/09/24 01:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/09/24 01:51	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/09/24 01:51	1
1,2-Dichloropropane	ND		1.0		ug/L			07/09/24 01:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/09/24 01:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/09/24 01:51	1
1,3-Dichloropropane	ND		1.0		ug/L			07/09/24 01:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/09/24 01:51	1
1-Methylnaphthalene	ND		4.0		ug/L			07/09/24 01:51	1
2,2-Dichloropropane	ND		2.0		ug/L			07/09/24 01:51	1
2-Butanone	ND		10		ug/L			07/09/24 01:51	1
2-Chlorotoluene	ND		1.0		ug/L			07/09/24 01:51	1
2-Hexanone	ND		10		ug/L			07/09/24 01:51	1
2-Methylnaphthalene	ND		4.0		ug/L			07/09/24 01:51	1
4-Chlorotoluene	ND		1.0		ug/L			07/09/24 01:51	1
4-Isopropyltoluene	ND		1.0		ug/L			07/09/24 01:51	1
4-Methyl-2-pentanone	ND		10		ug/L			07/09/24 01:51	1
Acetone	ND		10		ug/L			07/09/24 01:51	1
Benzene	ND		1.0		ug/L			07/09/24 01:51	1
Bromobenzene	ND		1.0		ug/L			07/09/24 01:51	1
Bromodichloromethane	ND		1.0		ug/L			07/09/24 01:51	1
Dibromochloromethane	ND		1.0		ug/L			07/09/24 01:51	1
Bromoform	ND		1.0		ug/L			07/09/24 01:51	1
Bromomethane	ND		3.0		ug/L			07/09/24 01:51	1
Carbon disulfide	ND		10		ug/L			07/09/24 01:51	1
Carbon tetrachloride	ND		1.0		ug/L			07/09/24 01:51	1
Chlorobenzene	ND		1.0		ug/L			07/09/24 01:51	1
Chloroethane	ND		2.0		ug/L			07/09/24 01:51	1
Chloroform	ND		1.0		ug/L			07/09/24 01:51	1
Chloromethane	ND		3.0		ug/L			07/09/24 01:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 01:51	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 01:51	1
Dibromomethane	ND		1.0		ug/L			07/09/24 01:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/09/24 01:51	1
Ethylbenzene	ND		1.0		ug/L			07/09/24 01:51	1
Hexachlorobutadiene	ND		1.0		ug/L			07/09/24 01:51	1
Isopropylbenzene	ND		1.0		ug/L			07/09/24 01:51	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-15

Date Collected: 06/25/24 12:20
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/09/24 01:51	1
Methylene Chloride	ND		3.0		ug/L			07/09/24 01:51	1
n-Butylbenzene	ND		3.0		ug/L			07/09/24 01:51	1
N-Propylbenzene	ND		1.0		ug/L			07/09/24 01:51	1
Naphthalene	ND		2.0		ug/L			07/09/24 01:51	1
sec-Butylbenzene	ND		1.0		ug/L			07/09/24 01:51	1
Styrene	ND		1.0		ug/L			07/09/24 01:51	1
tert-Butylbenzene	ND		1.0		ug/L			07/09/24 01:51	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/09/24 01:51	1
Toluene	ND		1.0		ug/L			07/09/24 01:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 01:51	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 01:51	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/09/24 01:51	1
Trichlorofluoromethane	ND		1.0		ug/L			07/09/24 01:51	1
Vinyl chloride	ND		1.0		ug/L			07/09/24 01:51	1
Xylenes, Total	ND		1.5		ug/L			07/09/24 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/09/24 01:51*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/09/24 01:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/09/24 01:51*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/09/24 01:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.1**		0.50		mg/L			06/28/24 00:27	5
Nitrate as N	**0.80**	**H**	0.50		mg/L			06/28/24 00:27	5
Chloride	**660**		50		mg/L			06/29/24 04:20	100
Nitrite as N	ND	H	2.0		mg/L			06/28/24 00:40	20
Fluoride	**0.66**		0.50		mg/L			06/28/24 00:27	5
Orthophosphate as P	ND	H	2.5		mg/L			06/28/24 00:27	5
Sulfate	**2100**		50		mg/L			06/29/24 04:20	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**630**		10		mg/L		06/28/24 10:07	07/08/24 11:14	10
Magnesium	**77**		1.0		mg/L		06/28/24 10:07	07/05/24 11:17	1
Potassium	**10**		1.0		mg/L		06/28/24 10:07	07/05/24 11:17	1
Sodium	**760**		10		mg/L		06/28/24 10:07	07/08/24 11:14	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4700**		500		mg/L			06/28/24 10:37	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			07/01/24 21:50	1
Specific Conductance (SM 2510B)	**5800**		10		umhos/cm			07/08/24 14:15	1
pH (SM 4500 H+ B)	**7.8**	**HF**	0.1		SU			07/01/24 21:50	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-30
Date Collected: 06/26/24 09:45
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/09/24 02:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/09/24 02:20	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/09/24 02:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/09/24 02:20	1
1,1-Dichloroethane	ND		1.0		ug/L			07/09/24 02:20	1
1,1-Dichloroethene	ND		1.0		ug/L			07/09/24 02:20	1
1,1-Dichloropropene	ND		1.0		ug/L			07/09/24 02:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/09/24 02:20	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/09/24 02:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/09/24 02:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/09/24 02:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/09/24 02:20	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/09/24 02:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/09/24 02:20	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/09/24 02:20	1
1,2-Dichloropropane	ND		1.0		ug/L			07/09/24 02:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/09/24 02:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/09/24 02:20	1
1,3-Dichloropropane	ND		1.0		ug/L			07/09/24 02:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/09/24 02:20	1
1-Methylnaphthalene	ND		4.0		ug/L			07/09/24 02:20	1
2,2-Dichloropropane	ND		2.0		ug/L			07/09/24 02:20	1
2-Butanone	ND		10		ug/L			07/09/24 02:20	1
2-Chlorotoluene	ND		1.0		ug/L			07/09/24 02:20	1
2-Hexanone	ND		10		ug/L			07/09/24 02:20	1
2-Methylnaphthalene	ND		4.0		ug/L			07/09/24 02:20	1
4-Chlorotoluene	ND		1.0		ug/L			07/09/24 02:20	1
4-Isopropyltoluene	ND		1.0		ug/L			07/09/24 02:20	1
4-Methyl-2-pentanone	ND		10		ug/L			07/09/24 02:20	1
Acetone	ND		10		ug/L			07/09/24 02:20	1
Benzene	ND		1.0		ug/L			07/09/24 02:20	1
Bromobenzene	ND		1.0		ug/L			07/09/24 02:20	1
Bromodichloromethane	ND		1.0		ug/L			07/09/24 02:20	1
Dibromochloromethane	ND		1.0		ug/L			07/09/24 02:20	1
Bromoform	ND		1.0		ug/L			07/09/24 02:20	1
Bromomethane	ND		3.0		ug/L			07/09/24 02:20	1
Carbon disulfide	ND		10		ug/L			07/09/24 02:20	1
Carbon tetrachloride	ND		1.0		ug/L			07/09/24 02:20	1
Chlorobenzene	ND		1.0		ug/L			07/09/24 02:20	1
Chloroethane	ND		2.0		ug/L			07/09/24 02:20	1
Chloroform	ND		1.0		ug/L			07/09/24 02:20	1
Chloromethane	ND		3.0		ug/L			07/09/24 02:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 02:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 02:20	1
Dibromomethane	ND		1.0		ug/L			07/09/24 02:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/09/24 02:20	1
Ethylbenzene	ND		1.0		ug/L			07/09/24 02:20	1
Hexachlorobutadiene	ND		1.0		ug/L			07/09/24 02:20	1
Isopropylbenzene	ND		1.0		ug/L			07/09/24 02:20	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-30

Date Collected: 06/26/24 09:45
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-9

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/09/24 02:20	1
Methylene Chloride	ND		3.0		ug/L			07/09/24 02:20	1
n-Butylbenzene	ND		3.0		ug/L			07/09/24 02:20	1
N-Propylbenzene	ND		1.0		ug/L			07/09/24 02:20	1
Naphthalene	ND		2.0		ug/L			07/09/24 02:20	1
sec-Butylbenzene	ND		1.0		ug/L			07/09/24 02:20	1
Styrene	ND		1.0		ug/L			07/09/24 02:20	1
tert-Butylbenzene	ND		1.0		ug/L			07/09/24 02:20	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/09/24 02:20	1
Toluene	ND		1.0		ug/L			07/09/24 02:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 02:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 02:20	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/09/24 02:20	1
Trichlorofluoromethane	ND		1.0		ug/L			07/09/24 02:20	1
Vinyl chloride	ND		1.0		ug/L			07/09/24 02:20	1
Xylenes, Total	ND		1.5		ug/L			07/09/24 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/09/24 02:20*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/09/24 02:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/09/24 02:20*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*07/09/24 02:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.95**		0.50		mg/L			06/28/24 01:17	5
Nitrate as N	ND		0.50		mg/L			06/28/24 01:17	5
Chloride	**380**		50		mg/L			06/29/24 04:33	100
Nitrite as N	ND		0.50		mg/L			06/28/24 01:17	5
Fluoride	**0.74**		0.50		mg/L			06/28/24 01:17	5
Orthophosphate as P	ND		2.5		mg/L			06/28/24 01:17	5
Sulfate	**2000**		50		mg/L			06/29/24 04:33	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**700**		10		mg/L		06/28/24 10:07	07/08/24 11:17	10
Magnesium	**86**		1.0		mg/L		06/28/24 10:07	07/05/24 11:20	1
Potassium	**15**		1.0		mg/L		06/28/24 10:07	07/05/24 11:20	1
Sodium	**710**		10		mg/L		06/28/24 10:07	07/08/24 11:17	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4400**		500		mg/L			07/01/24 11:04	1
Total Alkalinity as CaCO3 (SM 2320B)	**250**		20		mg/L			07/01/24 12:56	1
Specific Conductance (SM 2510B)	**5100**	**B**	10		umhos/cm			07/01/24 12:56	1
pH (SM 4500 H+ B)	**7.5**	**HF**	0.1		SU			07/01/24 12:56	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-31
Date Collected: 06/26/24 10:05
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/09/24 02:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/09/24 02:48	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/09/24 02:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/09/24 02:48	1
1,1-Dichloroethane	ND		1.0		ug/L			07/09/24 02:48	1
1,1-Dichloroethene	ND		1.0		ug/L			07/09/24 02:48	1
1,1-Dichloropropene	ND		1.0		ug/L			07/09/24 02:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/09/24 02:48	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/09/24 02:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/09/24 02:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/09/24 02:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/09/24 02:48	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/09/24 02:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/09/24 02:48	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/09/24 02:48	1
1,2-Dichloropropane	ND		1.0		ug/L			07/09/24 02:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/09/24 02:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/09/24 02:48	1
1,3-Dichloropropane	ND		1.0		ug/L			07/09/24 02:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/09/24 02:48	1
1-Methylnaphthalene	ND		4.0		ug/L			07/09/24 02:48	1
2,2-Dichloropropane	ND		2.0		ug/L			07/09/24 02:48	1
2-Butanone	ND		10		ug/L			07/09/24 02:48	1
2-Chlorotoluene	ND		1.0		ug/L			07/09/24 02:48	1
2-Hexanone	ND		10		ug/L			07/09/24 02:48	1
2-Methylnaphthalene	ND		4.0		ug/L			07/09/24 02:48	1
4-Chlorotoluene	ND		1.0		ug/L			07/09/24 02:48	1
4-Isopropyltoluene	ND		1.0		ug/L			07/09/24 02:48	1
4-Methyl-2-pentanone	ND		10		ug/L			07/09/24 02:48	1
Acetone	ND		10		ug/L			07/09/24 02:48	1
Benzene	ND		1.0		ug/L			07/09/24 02:48	1
Bromobenzene	ND		1.0		ug/L			07/09/24 02:48	1
Bromodichloromethane	ND		1.0		ug/L			07/09/24 02:48	1
Dibromochloromethane	ND		1.0		ug/L			07/09/24 02:48	1
Bromoform	ND		1.0		ug/L			07/09/24 02:48	1
Bromomethane	ND		3.0		ug/L			07/09/24 02:48	1
Carbon disulfide	ND		10		ug/L			07/09/24 02:48	1
Carbon tetrachloride	ND		1.0		ug/L			07/09/24 02:48	1
Chlorobenzene	ND		1.0		ug/L			07/09/24 02:48	1
Chloroethane	ND		2.0		ug/L			07/09/24 02:48	1
Chloroform	ND		1.0		ug/L			07/09/24 02:48	1
Chloromethane	ND		3.0		ug/L			07/09/24 02:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 02:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 02:48	1
Dibromomethane	ND		1.0		ug/L			07/09/24 02:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/09/24 02:48	1
Ethylbenzene	ND		1.0		ug/L			07/09/24 02:48	1
Hexachlorobutadiene	ND		1.0		ug/L			07/09/24 02:48	1
Isopropylbenzene	ND		1.0		ug/L			07/09/24 02:48	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-31

Date Collected: 06/26/24 10:05
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-10

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/09/24 02:48	1
Methylene Chloride	ND		3.0		ug/L			07/09/24 02:48	1
n-Butylbenzene	ND		3.0		ug/L			07/09/24 02:48	1
N-Propylbenzene	ND		1.0		ug/L			07/09/24 02:48	1
Naphthalene	ND		2.0		ug/L			07/09/24 02:48	1
sec-Butylbenzene	ND		1.0		ug/L			07/09/24 02:48	1
Styrene	ND		1.0		ug/L			07/09/24 02:48	1
tert-Butylbenzene	ND		1.0		ug/L			07/09/24 02:48	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/09/24 02:48	1
Toluene	ND		1.0		ug/L			07/09/24 02:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/09/24 02:48	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/09/24 02:48	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/09/24 02:48	1
Trichlorofluoromethane	ND		1.0		ug/L			07/09/24 02:48	1
Vinyl chloride	ND		1.0		ug/L			07/09/24 02:48	1
Xylenes, Total	ND		1.5		ug/L			07/09/24 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/09/24 02:48*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/09/24 02:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/09/24 02:48*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/09/24 02:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.94**		0.50		mg/L			06/28/24 01:42	5
Nitrate as N	ND		0.50		mg/L			06/28/24 01:42	5
Chloride	**360**		50		mg/L			06/29/24 04:45	100
Nitrite as N	ND		0.50		mg/L			06/28/24 01:42	5
Fluoride	**0.60**		0.50		mg/L			06/28/24 01:42	5
Orthophosphate as P	ND		2.5		mg/L			06/28/24 01:42	5
Sulfate	**1900**		50		mg/L			06/29/24 04:45	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**610**		10		mg/L		06/28/24 10:07	07/08/24 11:19	10
Magnesium	**80**		1.0		mg/L		06/28/24 10:07	07/05/24 11:24	1
Potassium	**9.9**		1.0		mg/L		06/28/24 10:07	07/05/24 11:24	1
Sodium	**640**		10		mg/L		06/28/24 10:07	07/08/24 11:19	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4700**		500		mg/L			07/01/24 11:04	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			07/01/24 13:22	1
Specific Conductance (SM 2510B)	**5000**	**B**	10		umhos/cm			07/01/24 13:22	1
pH (SM 4500 H+ B)	**7.5**	**HF**	0.1		SU			07/01/24 13:22	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-7966/31
Matrix: Water
Analysis Batch: 7966

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/08/24 23:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/24 23:57	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/08/24 23:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/08/24 23:57	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/24 23:57	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/24 23:57	1
1,1-Dichloropropene	ND		1.0		ug/L			07/08/24 23:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/08/24 23:57	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/08/24 23:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/08/24 23:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/08/24 23:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/08/24 23:57	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/08/24 23:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/08/24 23:57	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/08/24 23:57	1
1,2-Dichloropropane	ND		1.0		ug/L			07/08/24 23:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/08/24 23:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/08/24 23:57	1
1,3-Dichloropropane	ND		1.0		ug/L			07/08/24 23:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/08/24 23:57	1
1-Methylnaphthalene	ND		4.0		ug/L			07/08/24 23:57	1
2,2-Dichloropropane	ND		2.0		ug/L			07/08/24 23:57	1
2-Butanone	ND		10		ug/L			07/08/24 23:57	1
2-Chlorotoluene	ND		1.0		ug/L			07/08/24 23:57	1
2-Hexanone	ND		10		ug/L			07/08/24 23:57	1
2-Methylnaphthalene	ND		4.0		ug/L			07/08/24 23:57	1
4-Chlorotoluene	ND		1.0		ug/L			07/08/24 23:57	1
4-Isopropyltoluene	ND		1.0		ug/L			07/08/24 23:57	1
4-Methyl-2-pentanone	ND		10		ug/L			07/08/24 23:57	1
Acetone	ND		10		ug/L			07/08/24 23:57	1
Benzene	ND		1.0		ug/L			07/08/24 23:57	1
Bromobenzene	ND		1.0		ug/L			07/08/24 23:57	1
Bromodichloromethane	ND		1.0		ug/L			07/08/24 23:57	1
Dibromochloromethane	ND		1.0		ug/L			07/08/24 23:57	1
Bromoform	ND		1.0		ug/L			07/08/24 23:57	1
Bromomethane	ND		3.0		ug/L			07/08/24 23:57	1
Carbon disulfide	ND		10		ug/L			07/08/24 23:57	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/24 23:57	1
Chlorobenzene	ND		1.0		ug/L			07/08/24 23:57	1
Chloroethane	ND		2.0		ug/L			07/08/24 23:57	1
Chloroform	ND		1.0		ug/L			07/08/24 23:57	1
Chloromethane	ND		3.0		ug/L			07/08/24 23:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/08/24 23:57	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/08/24 23:57	1
Dibromomethane	ND		1.0		ug/L			07/08/24 23:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/24 23:57	1
Ethylbenzene	ND		1.0		ug/L			07/08/24 23:57	1
Hexachlorobutadiene	ND		1.0		ug/L			07/08/24 23:57	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-7966/31
Matrix: Water
Analysis Batch: 7966

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/08/24 23:57	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/08/24 23:57	1
Methylene Chloride	ND		3.0		ug/L			07/08/24 23:57	1
n-Butylbenzene	ND		3.0		ug/L			07/08/24 23:57	1
N-Propylbenzene	ND		1.0		ug/L			07/08/24 23:57	1
Naphthalene	ND		2.0		ug/L			07/08/24 23:57	1
sec-Butylbenzene	ND		1.0		ug/L			07/08/24 23:57	1
Styrene	ND		1.0		ug/L			07/08/24 23:57	1
tert-Butylbenzene	ND		1.0		ug/L			07/08/24 23:57	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/08/24 23:57	1
Toluene	ND		1.0		ug/L			07/08/24 23:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/08/24 23:57	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/08/24 23:57	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/08/24 23:57	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/24 23:57	1
Vinyl chloride	ND		1.0		ug/L			07/08/24 23:57	1
Xylenes, Total	ND		1.5		ug/L			07/08/24 23:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/08/24 23:57*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/08/24 23:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*07/08/24 23:57*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*07/08/24 23:57*	*1*

Lab Sample ID: MB 885-7966/4
Matrix: Water
Analysis Batch: 7966

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/08/24 10:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/24 10:36	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/08/24 10:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/08/24 10:36	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/24 10:36	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/24 10:36	1
1,1-Dichloropropene	ND		1.0		ug/L			07/08/24 10:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/08/24 10:36	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/08/24 10:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/08/24 10:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/08/24 10:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/08/24 10:36	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/08/24 10:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/08/24 10:36	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			07/08/24 10:36	1
1,2-Dichloropropane	ND		1.0		ug/L			07/08/24 10:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/08/24 10:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/08/24 10:36	1
1,3-Dichloropropane	ND		1.0		ug/L			07/08/24 10:36	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-7966/4
Matrix: Water
Analysis Batch: 7966

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			07/08/24 10:36	1
1-Methylnaphthalene	ND		4.0		ug/L			07/08/24 10:36	1
2,2-Dichloropropane	ND		2.0		ug/L			07/08/24 10:36	1
2-Butanone	ND		10		ug/L			07/08/24 10:36	1
2-Chlorotoluene	ND		1.0		ug/L			07/08/24 10:36	1
2-Hexanone	ND		10		ug/L			07/08/24 10:36	1
2-Methylnaphthalene	ND		4.0		ug/L			07/08/24 10:36	1
4-Chlorotoluene	ND		1.0		ug/L			07/08/24 10:36	1
4-Isopropyltoluene	ND		1.0		ug/L			07/08/24 10:36	1
4-Methyl-2-pentanone	ND		10		ug/L			07/08/24 10:36	1
Acetone	ND		10		ug/L			07/08/24 10:36	1
Benzene	ND		1.0		ug/L			07/08/24 10:36	1
Bromobenzene	ND		1.0		ug/L			07/08/24 10:36	1
Bromodichloromethane	ND		1.0		ug/L			07/08/24 10:36	1
Dibromochloromethane	ND		1.0		ug/L			07/08/24 10:36	1
Bromoform	ND		1.0		ug/L			07/08/24 10:36	1
Bromomethane	ND		3.0		ug/L			07/08/24 10:36	1
Carbon disulfide	ND		10		ug/L			07/08/24 10:36	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/24 10:36	1
Chlorobenzene	ND		1.0		ug/L			07/08/24 10:36	1
Chloroethane	ND		2.0		ug/L			07/08/24 10:36	1
Chloroform	ND		1.0		ug/L			07/08/24 10:36	1
Chloromethane	ND		3.0		ug/L			07/08/24 10:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/08/24 10:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/08/24 10:36	1
Dibromomethane	ND		1.0		ug/L			07/08/24 10:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/24 10:36	1
Ethylbenzene	ND		1.0		ug/L			07/08/24 10:36	1
Hexachlorobutadiene	ND		1.0		ug/L			07/08/24 10:36	1
Isopropylbenzene	ND		1.0		ug/L			07/08/24 10:36	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			07/08/24 10:36	1
Methylene Chloride	ND		3.0		ug/L			07/08/24 10:36	1
n-Butylbenzene	ND		3.0		ug/L			07/08/24 10:36	1
N-Propylbenzene	ND		1.0		ug/L			07/08/24 10:36	1
Naphthalene	ND		2.0		ug/L			07/08/24 10:36	1
sec-Butylbenzene	ND		1.0		ug/L			07/08/24 10:36	1
Styrene	ND		1.0		ug/L			07/08/24 10:36	1
tert-Butylbenzene	ND		1.0		ug/L			07/08/24 10:36	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			07/08/24 10:36	1
Toluene	ND		1.0		ug/L			07/08/24 10:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/08/24 10:36	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/08/24 10:36	1
Trichloroethene (TCE)	ND		1.0		ug/L			07/08/24 10:36	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/24 10:36	1
Vinyl chloride	ND		1.0		ug/L			07/08/24 10:36	1
Xylenes, Total	ND		1.5		ug/L			07/08/24 10:36	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-7966/4
Matrix: Water
Analysis Batch: 7966

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)					*07/08/24 10:36*	*1*
Toluene-d8 (Surr)					*07/08/24 10:36*	*1*
4-Bromofluorobenzene (Surr)					*07/08/24 10:36*	*1*
Dibromofluoromethane (Surr)					*07/08/24 10:36*	*1*

Lab Sample ID: LCS 885-7966/3
Matrix: Water
Analysis Batch: 7966

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	171	200		ug/L		117	70 - 130
Benzene	171	202		ug/L		118	70 - 130
Chlorobenzene	171	206		ug/L		121	70 - 130
Toluene	171	201		ug/L		117	70 - 130
Trichloroethene (TCE)	171	188		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: LCS 885-7966/30
Matrix: Water
Analysis Batch: 7966

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	171	183		ug/L		107	70 - 130
Benzene	171	191		ug/L		112	70 - 130
Chlorobenzene	171	197		ug/L		115	70 - 130
Toluene	171	190		ug/L		111	70 - 130
Trichloroethene (TCE)	171	176		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: 885-7003-7 MS
Matrix: Water
Analysis Batch: 7966

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	ND	F1	40.3	44.4		ug/L		110	70 - 130
Benzene	ND	F1	40.2	46.4		ug/L		115	70 - 130
Chlorobenzene	ND	F1 F2	40.1	45.9		ug/L		114	70 - 130
Toluene	ND	F1	40.3	46.0		ug/L		114	70 - 130

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-7003-7 MS
Matrix: Water
Analysis Batch: 7966

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene (TCE)	ND		40.3	42.0		ug/L		104	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: 885-7003-7 MSD
Matrix: Water
Analysis Batch: 7966

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND	F1	40.3	52.9	F1	ug/L		131	70 - 130	17	20
Benzene	ND	F1	40.2	56.5	F1	ug/L		141	70 - 130	20	20
Chlorobenzene	ND	F1 F2	40.1	56.6	F1 F2	ug/L		141	70 - 130	21	20
Toluene	ND	F1	40.3	56.0	F1	ug/L		139	70 - 130	20	20
Trichloroethene (TCE)	ND		40.3	50.6		ug/L		126	70 - 130	19	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7604/28
Matrix: Water
Analysis Batch: 7604

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	mg/L			06/27/24 08:03	1
Chloride	ND		0.50	mg/L			06/27/24 08:03	1
Fluoride	ND		0.10	mg/L			06/27/24 08:03	1
Sulfate	ND		0.50	mg/L			06/27/24 08:03	1

Lab Sample ID: MB 885-7604/86
Matrix: Water
Analysis Batch: 7604

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	mg/L			06/27/24 20:20	1
Chloride	ND		0.50	mg/L			06/27/24 20:20	1
Fluoride	ND		0.10	mg/L			06/27/24 20:20	1
Sulfate	ND		0.50	mg/L			06/27/24 20:20	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-7604/87
Matrix: Water
Analysis Batch: 7604

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			2.50	2.47		mg/L		99	90 - 110		
Chloride			5.00	4.88		mg/L		98	90 - 110		
Fluoride			0.500	0.535		mg/L		107	90 - 110		
Sulfate			10.0	9.78		mg/L		98	90 - 110		

Lab Sample ID: MRL 885-7604/27
Matrix: Water
Analysis Batch: 7604

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			0.100	0.119		mg/L		119	50 - 150		
Chloride			0.500	0.561		mg/L		112	50 - 150		
Fluoride			0.100	0.124		mg/L		124	50 - 150		
Sulfate			0.500	0.571		mg/L		114	50 - 150		

Lab Sample ID: 885-7003-4 MS
Matrix: Water
Analysis Batch: 7604

Client Sample ID: MW-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	3.6	F1	250	3.56	F1	mg/L		-0.03	80 - 120		
Chloride	ND	F1	500	ND	F1	mg/L		0	80 - 120		
Fluoride	0.59	F1	50.0	0.591	F1	mg/L		0.008	70 - 130		
Sulfate	3800	F1	1000	3750	F1	mg/L		-10	80 - 120		

Lab Sample ID: 885-7003-4 MSD
Matrix: Water
Analysis Batch: 7604

Client Sample ID: MW-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	3.6	F1	250	3.51	F1	mg/L		-0.04	80 - 120	1	20
Chloride	ND	F1	500	ND	F1	mg/L		0	80 - 120	NC	20
Fluoride	0.59	F1	50.0	0.575	F1	mg/L		-0.02	70 - 130	3	20
Sulfate	3800	F1	1000	3730	F1	mg/L		-12	80 - 120	1	20

Lab Sample ID: MB 885-7605/28
Matrix: Water
Analysis Batch: 7605

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10		mg/L			06/27/24 08:03	1
Nitrite as N	ND		0.10		mg/L			06/27/24 08:03	1
Orthophosphate as P	ND		0.50		mg/L			06/27/24 08:03	1

Lab Sample ID: MB 885-7605/86
Matrix: Water
Analysis Batch: 7605

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10		mg/L			06/27/24 20:20	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-7605/86
Matrix: Water
Analysis Batch: 7605

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10		mg/L			06/27/24 20:20	1
Orthophosphate as P	ND		0.50		mg/L			06/27/24 20:20	1

Lab Sample ID: LCS 885-7605/87
Matrix: Water
Analysis Batch: 7605

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			2.50	2.56		mg/L		102	90 - 110		
Nitrite as N			1.00	0.983		mg/L		98	90 - 110		
Orthophosphate as P			5.00	4.81		mg/L		96	90 - 110		

Lab Sample ID: MRL 885-7605/27
Matrix: Water
Analysis Batch: 7605

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.111		mg/L		111	50 - 150		
Nitrite as N			0.0999	0.105		mg/L		105	50 - 150		
Orthophosphate as P			0.500	0.551		mg/L		110	50 - 150		

Lab Sample ID: 885-7003-4 MS
Matrix: Water
Analysis Batch: 7605

Client Sample ID: MW-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	2.2	H F1	12.5	2.18	F1	mg/L		-0.5	80 - 120		
Nitrite as N	ND	H F1	5.00	ND	F1	mg/L		0	80 - 120		
Orthophosphate as P	ND	H F1	25.0	ND	F1	mg/L		0	80 - 120		

Lab Sample ID: 885-7003-4 MSD
Matrix: Water
Analysis Batch: 7605

Client Sample ID: MW-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.2	H F1	12.5	2.18	F1	mg/L		-0.5	80 - 120	0	20
Nitrite as N	ND	H F1	5.00	ND	F1	mg/L		0	80 - 120	NC	20
Orthophosphate as P	ND	H F1	25.0	ND	F1	mg/L		0	80 - 120	NC	20

Lab Sample ID: MB 885-7631/10
Matrix: Water
Analysis Batch: 7631

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			06/28/24 10:22	1
Chloride	ND		0.50		mg/L			06/28/24 10:22	1
Fluoride	ND		0.10		mg/L			06/28/24 10:22	1
Sulfate	ND		0.50		mg/L			06/28/24 10:22	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-7631/58
Matrix: Water
Analysis Batch: 7631

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			06/28/24 20:19	1
Chloride	ND		0.50		mg/L			06/28/24 20:19	1
Fluoride	ND		0.10		mg/L			06/28/24 20:19	1
Sulfate	ND		0.50		mg/L			06/28/24 20:19	1

Lab Sample ID: LCS 885-7631/59
Matrix: Water
Analysis Batch: 7631

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			2.50	2.43		mg/L		97	90 - 110		
Chloride			5.00	4.83		mg/L		97	90 - 110		
Fluoride			0.500	0.527		mg/L		105	90 - 110		
Sulfate			10.0	9.72		mg/L		97	90 - 110		

Lab Sample ID: MRL 885-7631/9
Matrix: Water
Analysis Batch: 7631

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			0.100	0.110		mg/L		110	50 - 150		
Chloride			0.500	0.560		mg/L		112	50 - 150		
Fluoride			0.100	0.125		mg/L		125	50 - 150		
Sulfate			0.500	0.550		mg/L		110	50 - 150		

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MRL 885-7951/14
Matrix: Water
Analysis Batch: 7951

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			0.500	0.518	J	mg/L		104	50 - 150		
Magnesium			0.500	0.517	J	mg/L		103	50 - 150		
Potassium			0.500	0.524	J	mg/L		105	50 - 150		
Sodium			0.500	0.510	J	mg/L		102	50 - 150		

Lab Sample ID: MRL 885-8057/14
Matrix: Water
Analysis Batch: 8057

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			0.500	0.515	J	mg/L		103	50 - 150		
Magnesium			0.500	0.520	J	mg/L		104	50 - 150		
Potassium			0.500	0.496	J	mg/L		99	50 - 150		
Sodium			0.500	0.537	J	mg/L		107	50 - 150		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 885-7595/1-A
Matrix: Water
Analysis Batch: 7951

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 7595

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.0		mg/L		06/28/24 10:07	07/05/24 09:26	1
Magnesium	ND		1.0		mg/L		06/28/24 10:07	07/05/24 09:26	1
Potassium	ND		1.0		mg/L		06/28/24 10:07	07/05/24 09:26	1
Sodium	ND		1.0		mg/L		06/28/24 10:07	07/05/24 09:26	1

Lab Sample ID: MB 885-7595/1-A
Matrix: Water
Analysis Batch: 8057

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 7595

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.0		mg/L		06/28/24 10:07	07/08/24 09:45	1
Magnesium	ND		1.0		mg/L		06/28/24 10:07	07/08/24 09:45	1
Potassium	ND		1.0		mg/L		06/28/24 10:07	07/08/24 09:45	1
Sodium	ND		1.0		mg/L		06/28/24 10:07	07/08/24 09:45	1

Lab Sample ID: LCS 885-7595/6-A
Matrix: Water
Analysis Batch: 7951

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 7595

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50.0	50.1		mg/L		100	85 - 115		
Magnesium			50.0	50.1		mg/L		100	85 - 115		
Potassium			50.0	49.1		mg/L		98	85 - 115		
Sodium			50.0	49.4		mg/L		99	85 - 115		

Lab Sample ID: LCS 885-7595/6-A
Matrix: Water
Analysis Batch: 8057

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 7595

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50.0	51.8		mg/L		104	85 - 115		
Magnesium			50.0	51.8		mg/L		104	85 - 115		
Potassium			50.0	51.5		mg/L		103	85 - 115		
Sodium			50.0	52.3		mg/L		105	85 - 115		

Lab Sample ID: LLCS 885-7595/5-A
Matrix: Water
Analysis Batch: 7951

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 7595

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			0.500	0.549	J	mg/L		110	50 - 150		
Magnesium			0.500	0.523	J	mg/L		105	50 - 150		
Potassium			0.500	0.551	J	mg/L		110	50 - 150		
Sodium			0.500	0.503	J	mg/L		101	50 - 150		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LLCS 885-7595/5-A
Matrix: Water
Analysis Batch: 8057

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 7595

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.500	0.545	J	mg/L		109	50 - 150
Magnesium	0.500	0.524	J	mg/L		105	50 - 150
Potassium	0.500	0.413	J	mg/L		83	50 - 150
Sodium	0.500	0.596	J	mg/L		119	50 - 150

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-7512/1
Matrix: Water
Analysis Batch: 7512

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			06/27/24 14:07	1

Lab Sample ID: LCS 885-7512/2
Matrix: Water
Analysis Batch: 7512

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1000		mg/L		100	80 - 120

Lab Sample ID: MB 885-7600/1
Matrix: Water
Analysis Batch: 7600

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			06/28/24 10:37	1

Lab Sample ID: LCS 885-7600/2
Matrix: Water
Analysis Batch: 7600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1020		mg/L		102	80 - 120

Lab Sample ID: MB 885-7632/1
Matrix: Water
Analysis Batch: 7632

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			06/29/24 11:05	1

Lab Sample ID: LCS 885-7632/2
Matrix: Water
Analysis Batch: 7632

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1020		mg/L		102	80 - 120

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 885-7692/1
Matrix: Water
Analysis Batch: 7692

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			07/01/24 11:04	1

Lab Sample ID: LCS 885-7692/2
Matrix: Water
Analysis Batch: 7692

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1010		mg/L		101	80 - 120		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 885-7761/2
Matrix: Water
Analysis Batch: 7761

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	ND		20		mg/L			07/01/24 12:18	1

Lab Sample ID: MB 885-7761/26
Matrix: Water
Analysis Batch: 7761

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	ND		20		mg/L			07/01/24 19:03	1

Lab Sample ID: LCS 885-7761/27
Matrix: Water
Analysis Batch: 7761

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			84.8	79.8		mg/L		94	90 - 110		

Lab Sample ID: LCS 885-7761/3
Matrix: Water
Analysis Batch: 7761

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			84.8	79.6		mg/L		94	90 - 110		

Lab Sample ID: MRL 885-7761/1
Matrix: Water
Analysis Batch: 7761

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			21.2	23.9		mg/L		113	50 - 150		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 885-7003-9 DU
Matrix: Water
Analysis Batch: 7761

Client Sample ID: MW-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3	250			245		mg/L				0.2	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 885-7762/36
Matrix: Water
Analysis Batch: 7762

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	14.6	^+	10		umhos/cm			07/01/24 19:03	1

Lab Sample ID: LCS 885-7762/4
Matrix: Water
Analysis Batch: 7762

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			99.8	104		umhos/cm		104	85 - 115		

Lab Sample ID: MRL 885-7762/3
Matrix: Water
Analysis Batch: 7762

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			9.61	ND		umhos/cm		100	50 - 150		

Lab Sample ID: 885-7003-9 DU
Matrix: Water
Analysis Batch: 7762

Client Sample ID: MW-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	5100	B		5090		umhos/cm				0.1	20

Lab Sample ID: LCS 885-8151/4
Matrix: Water
Analysis Batch: 8151

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			99.8	104		umhos/cm		104	85 - 115		

Lab Sample ID: MRL 885-8151/3
Matrix: Water
Analysis Batch: 8151

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			9.61	ND		umhos/cm		97	50 - 150		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Method: SM 4500 H+ B - pH

Lab Sample ID: 885-7003-9 DU
Matrix: Water
Analysis Batch: 7763

Client Sample ID: MW-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.5	HF		7.5		SU				0.3	20

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

GC/MS VOA

Analysis Batch: 7966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total/NA	Water	8260B	
885-7003-2	MW-09	Total/NA	Water	8260B	
885-7003-3	MW-29	Total/NA	Water	8260B	
885-7003-4	MW-28	Total/NA	Water	8260B	
885-7003-5	MW-18	Total/NA	Water	8260B	
885-7003-6	MW-27	Total/NA	Water	8260B	
885-7003-7	MW-12	Total/NA	Water	8260B	
885-7003-8	MW-15	Total/NA	Water	8260B	
885-7003-9	MW-30	Total/NA	Water	8260B	
885-7003-10	MW-31	Total/NA	Water	8260B	
MB 885-7966/31	Method Blank	Total/NA	Water	8260B	
MB 885-7966/4	Method Blank	Total/NA	Water	8260B	
LCS 885-7966/3	Lab Control Sample	Total/NA	Water	8260B	
LCS 885-7966/30	Lab Control Sample	Total/NA	Water	8260B	
885-7003-7 MS	MW-12	Total/NA	Water	8260B	
885-7003-7 MSD	MW-12	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 7604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total/NA	Water	300.0	
885-7003-2	MW-09	Total/NA	Water	300.0	
885-7003-3	MW-29	Total/NA	Water	300.0	
885-7003-4	MW-28	Total/NA	Water	300.0	
885-7003-5	MW-18	Total/NA	Water	300.0	
885-7003-6	MW-27	Total/NA	Water	300.0	
885-7003-7	MW-12	Total/NA	Water	300.0	
885-7003-7	MW-12	Total/NA	Water	300.0	
885-7003-8	MW-15	Total/NA	Water	300.0	
885-7003-9	MW-30	Total/NA	Water	300.0	
885-7003-10	MW-31	Total/NA	Water	300.0	
MB 885-7604/28	Method Blank	Total/NA	Water	300.0	
MB 885-7604/86	Method Blank	Total/NA	Water	300.0	
LCS 885-7604/87	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-7604/27	Lab Control Sample	Total/NA	Water	300.0	
885-7003-4 MS	MW-28	Total/NA	Water	300.0	
885-7003-4 MSD	MW-28	Total/NA	Water	300.0	

Analysis Batch: 7605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total/NA	Water	300.0	
885-7003-1	MW-13	Total/NA	Water	300.0	
885-7003-2	MW-09	Total/NA	Water	300.0	
885-7003-2	MW-09	Total/NA	Water	300.0	
885-7003-3	MW-29	Total/NA	Water	300.0	
885-7003-3	MW-29	Total/NA	Water	300.0	
885-7003-4	MW-28	Total/NA	Water	300.0	
885-7003-4	MW-28	Total/NA	Water	300.0	
885-7003-5	MW-18	Total/NA	Water	300.0	
885-7003-5	MW-18	Total/NA	Water	300.0	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

HPLC/IC (Continued)

Analysis Batch: 7605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-6	MW-27	Total/NA	Water	300.0	
885-7003-6	MW-27	Total/NA	Water	300.0	
885-7003-7	MW-12	Total/NA	Water	300.0	
885-7003-7	MW-12	Total/NA	Water	300.0	
885-7003-8	MW-15	Total/NA	Water	300.0	
885-7003-8	MW-15	Total/NA	Water	300.0	
885-7003-9	MW-30	Total/NA	Water	300.0	
885-7003-10	MW-31	Total/NA	Water	300.0	
MB 885-7605/28	Method Blank	Total/NA	Water	300.0	
MB 885-7605/86	Method Blank	Total/NA	Water	300.0	
LCS 885-7605/87	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-7605/27	Lab Control Sample	Total/NA	Water	300.0	
885-7003-4 MS	MW-28	Total/NA	Water	300.0	
885-7003-4 MSD	MW-28	Total/NA	Water	300.0	

Analysis Batch: 7631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total/NA	Water	300.0	
885-7003-1	MW-13	Total/NA	Water	300.0	
885-7003-2	MW-09	Total/NA	Water	300.0	
885-7003-3	MW-29	Total/NA	Water	300.0	
885-7003-4	MW-28	Total/NA	Water	300.0	
885-7003-5	MW-18	Total/NA	Water	300.0	
885-7003-6	MW-27	Total/NA	Water	300.0	
885-7003-7	MW-12	Total/NA	Water	300.0	
885-7003-7	MW-12	Total/NA	Water	300.0	
885-7003-8	MW-15	Total/NA	Water	300.0	
885-7003-9	MW-30	Total/NA	Water	300.0	
885-7003-10	MW-31	Total/NA	Water	300.0	
MB 885-7631/10	Method Blank	Total/NA	Water	300.0	
MB 885-7631/58	Method Blank	Total/NA	Water	300.0	
LCS 885-7631/59	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-7631/9	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 7595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total Recoverable	Water	200.2	
885-7003-2	MW-09	Total Recoverable	Water	200.2	
885-7003-3	MW-29	Total Recoverable	Water	200.2	
885-7003-4	MW-28	Total Recoverable	Water	200.2	
885-7003-5	MW-18	Total Recoverable	Water	200.2	
885-7003-6	MW-27	Total Recoverable	Water	200.2	
885-7003-7	MW-12	Total Recoverable	Water	200.2	
885-7003-8	MW-15	Total Recoverable	Water	200.2	
885-7003-9	MW-30	Total Recoverable	Water	200.2	
885-7003-10	MW-31	Total Recoverable	Water	200.2	
MB 885-7595/1-A	Method Blank	Total Recoverable	Water	200.2	
LCS 885-7595/6-A	Lab Control Sample	Total Recoverable	Water	200.2	
LLCS 885-7595/5-A	Lab Control Sample	Total Recoverable	Water	200.2	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Metals

Analysis Batch: 7951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-2	MW-09	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-2	MW-09	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-3	MW-29	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-4	MW-28	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-4	MW-28	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-5	MW-18	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-6	MW-27	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-7	MW-12	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-7	MW-12	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-8	MW-15	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-9	MW-30	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-10	MW-31	Total Recoverable	Water	200.7 Rev 4.4	7595
MB 885-7595/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	7595
LCS 885-7595/6-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	7595
LLCS 885-7595/5-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	7595
MRL 885-7951/14	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 8057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-2	MW-09	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-3	MW-29	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-4	MW-28	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-5	MW-18	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-6	MW-27	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-7	MW-12	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-8	MW-15	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-9	MW-30	Total Recoverable	Water	200.7 Rev 4.4	7595
885-7003-10	MW-31	Total Recoverable	Water	200.7 Rev 4.4	7595
MB 885-7595/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	7595
LCS 885-7595/6-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	7595
LLCS 885-7595/5-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	7595
MRL 885-8057/14	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

General Chemistry

Analysis Batch: 7512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-3	MW-29	Total/NA	Water	2540C	
885-7003-4	MW-28	Total/NA	Water	2540C	
885-7003-5	MW-18	Total/NA	Water	2540C	
885-7003-6	MW-27	Total/NA	Water	2540C	
885-7003-7	MW-12	Total/NA	Water	2540C	
MB 885-7512/1	Method Blank	Total/NA	Water	2540C	
LCS 885-7512/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 7600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-8	MW-15	Total/NA	Water	2540C	
MB 885-7600/1	Method Blank	Total/NA	Water	2540C	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

General Chemistry (Continued)

Analysis Batch: 7600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-7600/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 7632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total/NA	Water	2540C	
885-7003-2	MW-09	Total/NA	Water	2540C	
MB 885-7632/1	Method Blank	Total/NA	Water	2540C	
LCS 885-7632/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 7692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-9	MW-30	Total/NA	Water	2540C	
885-7003-10	MW-31	Total/NA	Water	2540C	
MB 885-7692/1	Method Blank	Total/NA	Water	2540C	
LCS 885-7692/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 7761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total/NA	Water	SM 2320B	
885-7003-2	MW-09	Total/NA	Water	SM 2320B	
885-7003-3	MW-29	Total/NA	Water	SM 2320B	
885-7003-4	MW-28	Total/NA	Water	SM 2320B	
885-7003-5	MW-18	Total/NA	Water	SM 2320B	
885-7003-6	MW-27	Total/NA	Water	SM 2320B	
885-7003-7	MW-12	Total/NA	Water	SM 2320B	
885-7003-8	MW-15	Total/NA	Water	SM 2320B	
885-7003-9	MW-30	Total/NA	Water	SM 2320B	
885-7003-10	MW-31	Total/NA	Water	SM 2320B	
MB 885-7761/2	Method Blank	Total/NA	Water	SM 2320B	
MB 885-7761/26	Method Blank	Total/NA	Water	SM 2320B	
LCS 885-7761/27	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 885-7761/3	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 885-7761/1	Lab Control Sample	Total/NA	Water	SM 2320B	
885-7003-9 DU	MW-30	Total/NA	Water	SM 2320B	

Analysis Batch: 7762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-9	MW-30	Total/NA	Water	SM 2510B	
885-7003-10	MW-31	Total/NA	Water	SM 2510B	
MB 885-7762/36	Method Blank	Total/NA	Water	SM 2510B	
LCS 885-7762/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-7762/3	Lab Control Sample	Total/NA	Water	SM 2510B	
885-7003-9 DU	MW-30	Total/NA	Water	SM 2510B	

Analysis Batch: 7763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total/NA	Water	SM 4500 H+ B	
885-7003-2	MW-09	Total/NA	Water	SM 4500 H+ B	
885-7003-3	MW-29	Total/NA	Water	SM 4500 H+ B	
885-7003-4	MW-28	Total/NA	Water	SM 4500 H+ B	
885-7003-5	MW-18	Total/NA	Water	SM 4500 H+ B	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

General Chemistry (Continued)

Analysis Batch: 7763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-6	MW-27	Total/NA	Water	SM 4500 H+ B	
885-7003-7	MW-12	Total/NA	Water	SM 4500 H+ B	
885-7003-8	MW-15	Total/NA	Water	SM 4500 H+ B	
885-7003-9	MW-30	Total/NA	Water	SM 4500 H+ B	
885-7003-10	MW-31	Total/NA	Water	SM 4500 H+ B	
885-7003-9 DU	MW-30	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 8151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7003-1	MW-13	Total/NA	Water	SM 2510B	
885-7003-2	MW-09	Total/NA	Water	SM 2510B	
885-7003-3	MW-29	Total/NA	Water	SM 2510B	
885-7003-4	MW-28	Total/NA	Water	SM 2510B	
885-7003-5	MW-18	Total/NA	Water	SM 2510B	
885-7003-6	MW-27	Total/NA	Water	SM 2510B	
885-7003-7	MW-12	Total/NA	Water	SM 2510B	
885-7003-8	MW-15	Total/NA	Water	SM 2510B	
LCS 885-8151/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-8151/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-13

Date Collected: 06/26/24 11:00
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	7966	JR	EET ALB	07/09/24 03:17
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/27/24 20:45
Total/NA	Analysis	300.0		20	7604	SS	EET ALB	06/27/24 20:57
Total/NA	Analysis	300.0		20	7605	SS	EET ALB	06/27/24 20:57
Total/NA	Analysis	300.0		50	7631	JT	EET ALB	06/29/24 02:04
Total/NA	Analysis	300.0		1000	7631	JT	EET ALB	06/29/24 02:17
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		5	7951	JR	EET ALB	07/05/24 10:38
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		50	8057	JR	EET ALB	07/08/24 11:00
Total/NA	Analysis	2540C		1	7632	KB	EET ALB	06/29/24 11:05
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 20:17
Total/NA	Analysis	SM 2510B		10	8151	DL	EET ALB	07/08/24 14:18
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 20:17

Client Sample ID: MW-09

Date Collected: 06/26/24 10:30
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	7966	JR	EET ALB	07/09/24 03:45
Total/NA	Analysis	300.0		5	7604	SS	EET ALB	06/27/24 21:10
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/27/24 21:10
Total/NA	Analysis	300.0		20	7605	SS	EET ALB	06/27/24 21:22
Total/NA	Analysis	300.0		500	7631	JT	EET ALB	06/29/24 02:29
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	7951	JR	EET ALB	07/05/24 10:46
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		5	7951	JR	EET ALB	07/05/24 10:48
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		20	8057	JR	EET ALB	07/08/24 11:02
Total/NA	Analysis	2540C		1	7632	KB	EET ALB	06/29/24 11:05
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 20:27
Total/NA	Analysis	SM 2510B		1	8151	DL	EET ALB	07/08/24 14:04
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 20:27

Client Sample ID: MW-29

Date Collected: 06/25/24 08:46
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	7966	JR	EET ALB	07/09/24 04:14
Total/NA	Analysis	300.0		5	7604	SS	EET ALB	06/27/24 21:35

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-29

Lab Sample ID: 885-7003-3

Date Collected: 06/25/24 08:46
Matrix: Water
Date Received: 06/27/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/27/24 21:35
Total/NA	Analysis	300.0		20	7605	SS	EET ALB	06/27/24 21:47
Total/NA	Analysis	300.0		200	7631	JT	EET ALB	06/29/24 02:42
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	7951	JR	EET ALB	07/05/24 10:50
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		20	8057	JR	EET ALB	07/08/24 11:04
Total/NA	Analysis	2540C		1	7512	KB	EET ALB	06/27/24 14:07
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 20:42
Total/NA	Analysis	SM 2510B		10	8151	DL	EET ALB	07/08/24 14:21
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 20:42

Client Sample ID: MW-28

Lab Sample ID: 885-7003-4

Date Collected: 06/25/24 09:05
Matrix: Water
Date Received: 06/27/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	7966	JR	EET ALB	07/08/24 20:37
Total/NA	Analysis	300.0		5	7604	SS	EET ALB	06/27/24 21:59
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/27/24 21:59
Total/NA	Analysis	300.0		20	7605	SS	EET ALB	06/27/24 22:12
Total/NA	Analysis	300.0		500	7631	JT	EET ALB	06/29/24 03:19
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	7951	JR	EET ALB	07/05/24 10:53
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		5	7951	JR	EET ALB	07/05/24 10:55
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		50	8057	JR	EET ALB	07/08/24 11:06
Total/NA	Analysis	2540C		1	7512	KB	EET ALB	06/27/24 14:07
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 20:55
Total/NA	Analysis	SM 2510B		10	8151	DL	EET ALB	07/08/24 14:24
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 20:55

Client Sample ID: MW-18

Lab Sample ID: 885-7003-5

Date Collected: 06/25/24 09:49
Matrix: Water
Date Received: 06/27/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	7966	JR	EET ALB	07/08/24 21:06
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/27/24 23:13
Total/NA	Analysis	300.0		20	7604	SS	EET ALB	06/27/24 23:26
Total/NA	Analysis	300.0		20	7605	SS	EET ALB	06/27/24 23:26
Total/NA	Analysis	300.0		1000	7631	JT	EET ALB	06/29/24 03:31

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-18

Lab Sample ID: 885-7003-5

Date Collected: 06/25/24 09:49
Matrix: Water
Date Received: 06/27/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		5	7951	JR	EET ALB	07/05/24 10:59
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		50	8057	JR	EET ALB	07/08/24 11:08
Total/NA	Analysis	2540C		1	7512	KB	EET ALB	06/27/24 14:07
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 21:07
Total/NA	Analysis	SM 2510B		10	8151	DL	EET ALB	07/08/24 14:26
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 21:07

Client Sample ID: MW-27

Lab Sample ID: 885-7003-6

Date Collected: 06/25/24 12:10
Matrix: Water
Date Received: 06/27/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	7966	JR	EET ALB	07/08/24 21:34
Total/NA	Analysis	300.0		5	7604	SS	EET ALB	06/27/24 23:38
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/27/24 23:38
Total/NA	Analysis	300.0		20	7605	SS	EET ALB	06/27/24 23:50
Total/NA	Analysis	300.0		100	7631	JT	EET ALB	06/29/24 03:43
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	7951	JR	EET ALB	07/05/24 11:01
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		10	8057	JR	EET ALB	07/08/24 11:10
Total/NA	Analysis	2540C		1	7512	KB	EET ALB	06/27/24 14:07
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 21:22
Total/NA	Analysis	SM 2510B		1	8151	DL	EET ALB	07/08/24 14:12
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 21:22

Client Sample ID: MW-12

Lab Sample ID: 885-7003-7

Date Collected: 06/25/24 10:25
Matrix: Water
Date Received: 06/27/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	7966	JR	EET ALB	07/09/24 00:25
Total/NA	Analysis	300.0		5	7604	SS	EET ALB	06/28/24 00:03
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/28/24 00:03
Total/NA	Analysis	300.0		20	7604	SS	EET ALB	06/28/24 00:15
Total/NA	Analysis	300.0		20	7605	SS	EET ALB	06/28/24 00:15
Total/NA	Analysis	300.0		50	7631	JT	EET ALB	06/29/24 03:56
Total/NA	Analysis	300.0		1000	7631	JT	EET ALB	06/29/24 04:08
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	7951	JR	EET ALB	07/05/24 11:13

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-12

Date Collected: 06/25/24 10:25
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		5	7951	JR	EET ALB	07/05/24 11:14
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		50	8057	JR	EET ALB	07/08/24 11:12
Total/NA	Analysis	2540C		1	7512	KB	EET ALB	06/27/24 14:07
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 21:34
Total/NA	Analysis	SM 2510B		10	8151	DL	EET ALB	07/08/24 14:29
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 21:34

Client Sample ID: MW-15

Date Collected: 06/25/24 12:20
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	7966	JR	EET ALB	07/09/24 01:51
Total/NA	Analysis	300.0		5	7604	SS	EET ALB	06/28/24 00:27
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/28/24 00:27
Total/NA	Analysis	300.0		20	7605	SS	EET ALB	06/28/24 00:40
Total/NA	Analysis	300.0		100	7631	JT	EET ALB	06/29/24 04:20
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	7951	JR	EET ALB	07/05/24 11:17
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		10	8057	JR	EET ALB	07/08/24 11:14
Total/NA	Analysis	2540C		1	7600	KB	EET ALB	06/28/24 10:37
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 21:50
Total/NA	Analysis	SM 2510B		1	8151	DL	EET ALB	07/08/24 14:15
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 21:50

Client Sample ID: MW-30

Date Collected: 06/26/24 09:45
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	7966	JR	EET ALB	07/09/24 02:20
Total/NA	Analysis	300.0		5	7604	SS	EET ALB	06/28/24 01:17
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/28/24 01:17
Total/NA	Analysis	300.0		100	7631	JT	EET ALB	06/29/24 04:33
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	7951	JR	EET ALB	07/05/24 11:20
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		10	8057	JR	EET ALB	07/08/24 11:17
Total/NA	Analysis	2540C		1	7692	KB	EET ALB	07/01/24 11:04
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 12:56

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Client Sample ID: MW-30

Date Collected: 06/26/24 09:45
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2510B		1	7762	MA	EET ALB	07/01/24 12:56
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 12:56

Client Sample ID: MW-31

Date Collected: 06/26/24 10:05
Date Received: 06/27/24 07:00

Lab Sample ID: 885-7003-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	7966	JR	EET ALB	07/09/24 02:48
Total/NA	Analysis	300.0		5	7604	SS	EET ALB	06/28/24 01:42
Total/NA	Analysis	300.0		5	7605	SS	EET ALB	06/28/24 01:42
Total/NA	Analysis	300.0		100	7631	JT	EET ALB	06/29/24 04:45
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	7951	JR	EET ALB	07/05/24 11:24
Total Recoverable	Prep	200.2			7595	TM	EET ALB	06/28/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		10	8057	JR	EET ALB	07/08/24 11:19
Total/NA	Analysis	2540C		1	7692	KB	EET ALB	07/01/24 11:04
Total/NA	Analysis	SM 2320B		1	7761	MA	EET ALB	07/01/24 13:22
Total/NA	Analysis	SM 2510B		1	7762	MA	EET ALB	07/01/24 13:22
Total/NA	Analysis	SM 4500 H+ B		1	7763	MA	EET ALB	07/01/24 13:22

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

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
200.7 Rev 4.4	200.2	Water	Calcium
200.7 Rev 4.4	200.2	Water	Magnesium
200.7 Rev 4.4	200.2	Water	Potassium
200.7 Rev 4.4	200.2	Water	Sodium
2540C		Water	Total Dissolved Solids
300.0		Water	Bromide
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate as N
300.0		Water	Nitrite as N
300.0		Water	Orthophosphate as P
300.0		Water	Sulfate
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Salty Dog SWD

Job ID: 885-7003-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	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
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total
SM 2320B		Water	Total Alkalinity as CaCO3
SM 2510B		Water	Specific Conductance
SM 4500 H+ B		Water	pH

Chain-of-Custody Record

Client: Hilcorp Farmington NM

Attn: Mitch K.

Mailing Address: 382 Road 3100 Aztec, NM 87410

Billing Address: PO Box 61529 Houston, TX 77208

Phone #: 505-486-9543

email or Fax#: Brandon.Sinclair@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

X Standard ☐ Rush 5-day

Project Name: Salty Dog ~~Pipeline~~ SWD

Project #:

Project Manager: Stuart H

Sampler: ~~Brandon Sinclair~~ NP, GP, PA

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.9 +0.1 = 4.0 °C

HALL ENVIRONMENTAL ANALYSIS LABORA

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-7003 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Cations/Anions/TDS/pH/Alkalinity (1) Liter Plastic	Volatiles 8260 40ml VOA HCl
06/26	1100	Water	MW13	Various	Various	1	X	X
06/26	1030	Water	MW 09	Various	Various	2	X	X
06/25	8:46	Water	MW 29	Various	Various	3	X	X
06/25	9:05	Water	MW 28	Various	Various	4	X	X
06/25	9:49	Water	MW18	Various	Various	5	X	X
06/25	12:10	Water	MW27	Various	Various	6	X	X
06/25	10:25	Water	MW12	Various	Various	7	X	X
06/25	12:20	Water	MW5	Various	Various	8	X	X
6/26	945	Water	MW30	Various	Various	9	X	X
6/26	1005	Water	MW 31	Various	Various	10	X	X
		Water		Various	Various		X	X
		Water		Various	Various		X	X
		Water		Various	Various		X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/26	1345	Gregory Patton	Chase Ware		4/26/24	1345
4/26/24	1740	Chase Ware		Courier	6/27/24	7:00

Preserve the Cation/Anions in the lab. Cations: Calcium, Magnesium, Potassium and Sodium, Anions:Bromide, Chloride, Sulfate, Fluoride, Nitrate+Nitrite and Phosphorous.

CC: Shyde@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: 885-7003-1

Login Number: 7003 **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.	True	
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.	False	Sample compositing requested.
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brandon Sinclair
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 10/18/2024 10:44:40 AM

JOB DESCRIPTION

Salty Dog Pipeline

JOB NUMBER

885-11767-1

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
10/18/2024 10:44:40 AM

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

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Laboratory Job ID: 885-11767-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Job ID: 885-11767-1
Project/Site: Salty Dog Pipeline

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.

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: Salty Dog Pipeline

Job ID: 885-11767-1

Job ID: 885-11767-1 Eurofins Albuquerque

Job Narrative
885-11767-1

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 9/13/2024 7:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

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

HPLC/IC
Method 300_OF_28D_NO3: The following samples were diluted due to the nature of the sample matrix: MW-10 (885-11767-1) and MW-12 (885-11767-2). Elevated reporting limits (RLs) are provided.

Method 300_OF_28D_NO3: The following samples were diluted due to the nature of the sample matrix: MW-15 (885-11767-4), MW-27 (885-11767-6), MW-29 (885-11767-8) and MW-31 (885-11767-9). Elevated reporting limits (RLs) are provided.

Method 300_OF_28D_PREC: The following samples were diluted due to the nature of the sample matrix: MW-10 (885-11767-1), MW-12 (885-11767-2) and MW-13 (885-11767-3). Elevated reporting limits (RLs) are provided.

Method 300_OF_28D_PREC: The following samples were diluted due to the nature of the sample matrix: MW-15 (885-11767-4), MW-18 (885-11767-5), MW-27 (885-11767-6), MW-28 (885-11767-7), MW-29 (885-11767-8) and MW-31 (885-11767-9). Elevated reporting limits (RLs) are provided.

Method 300_OF_28D_PREC: Reanalysis of the following samples were performed outside of the analytical holding time due to an exceeding chloride peak : MW-10 (885-11767-1) and MW-12 (885-11767-2).

Method 300_OF_28D_PREC: Reanalysis of the following sample was performed outside of the analytical holding time due to exceeding peaks : MW-13 (885-11767-3).

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

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

General Chemistry
Method 2540C_SingleDry: The analysis volume selected for the following samples produced a base result greater than 200mg before calculation of the final result: MW-13 (885-11767-3) and MW-28 (885-11767-7). Reanalysis could not be performed due to holding time exceedance. After analyst visual inspection, the dried samples show no signs of trapped moisture. The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, these data have been qualified.

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: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-10
Date Collected: 09/11/24 14:20
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 19:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 19:58	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 19:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 19:58	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 19:58	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 19:58	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 19:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 19:58	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 19:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 19:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 19:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 19:58	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 19:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 19:58	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 19:58	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 19:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 19:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 19:58	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 19:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 19:58	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 19:58	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 19:58	1
2-Butanone	ND		10		ug/L			09/20/24 19:58	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 19:58	1
2-Hexanone	ND		10		ug/L			09/20/24 19:58	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 19:58	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 19:58	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 19:58	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 19:58	1
Acetone	ND		10		ug/L			09/20/24 19:58	1
Benzene	ND		1.0		ug/L			09/20/24 19:58	1
Bromobenzene	ND		1.0		ug/L			09/20/24 19:58	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 19:58	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 19:58	1
Bromoform	ND		1.0		ug/L			09/20/24 19:58	1
Bromomethane	ND		3.0		ug/L			09/20/24 19:58	1
Carbon disulfide	ND		10		ug/L			09/20/24 19:58	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 19:58	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 19:58	1
Chloroethane	ND		2.0		ug/L			09/20/24 19:58	1
Chloroform	ND		1.0		ug/L			09/20/24 19:58	1
Chloromethane	ND		3.0		ug/L			09/20/24 19:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 19:58	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 19:58	1
Dibromomethane	ND		1.0		ug/L			09/20/24 19:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 19:58	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 19:58	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 19:58	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 19:58	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-10
Date Collected: 09/11/24 14:20
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 19:58	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 19:58	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 19:58	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 19:58	1
Naphthalene	ND		2.0		ug/L			09/20/24 19:58	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 19:58	1
Styrene	ND		1.0		ug/L			09/20/24 19:58	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 19:58	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 19:58	1
Toluene	ND		1.0		ug/L			09/20/24 19:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 19:58	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 19:58	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 19:58	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 19:58	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 19:58	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/20/24 19:58*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/20/24 19:58*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/20/24 19:58*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*09/20/24 19:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**2.8**		1.0		mg/L			09/20/24 03:15	10
Chloride	**2500**	**H**	100		mg/L			10/10/24 13:41	200
Fluoride	ND		1.0		mg/L			09/20/24 03:15	10
Nitrate Nitrite as N	ND		2.0		mg/L			09/20/24 05:43	10
Sulfate	**2100**		50		mg/L			09/20/24 03:03	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**730**		10		mg/L			09/20/24 11:37	10
Magnesium	**85**		5.0		mg/L			09/20/24 11:18	5
Potassium	**13**		1.0		mg/L			09/20/24 15:37	1
Sodium	**1700**		20		mg/L			09/20/24 13:37	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**8300**		500		mg/L			09/17/24 11:50	1
Total Alkalinity as CaCO3 (SM 2320B)	**200**		20		mg/L			09/19/24 16:23	1
Specific Conductance (SM 2510B)	**13000**		100		umhos/cm			09/23/24 13:07	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-12

Date Collected: 09/11/24 12:50
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 20:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 20:22	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 20:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 20:22	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 20:22	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 20:22	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 20:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 20:22	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 20:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 20:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 20:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 20:22	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 20:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 20:22	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 20:22	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 20:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 20:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 20:22	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 20:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 20:22	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 20:22	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 20:22	1
2-Butanone	**18**		10		ug/L			09/20/24 20:22	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 20:22	1
2-Hexanone	ND		10		ug/L			09/20/24 20:22	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 20:22	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 20:22	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 20:22	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 20:22	1
Acetone	**130**		10		ug/L			09/20/24 20:22	1
Benzene	ND		1.0		ug/L			09/20/24 20:22	1
Bromobenzene	ND		1.0		ug/L			09/20/24 20:22	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 20:22	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 20:22	1
Bromoform	ND		1.0		ug/L			09/20/24 20:22	1
Bromomethane	ND		3.0		ug/L			09/20/24 20:22	1
Carbon disulfide	ND		10		ug/L			09/20/24 20:22	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 20:22	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 20:22	1
Chloroethane	ND		2.0		ug/L			09/20/24 20:22	1
Chloroform	ND		1.0		ug/L			09/20/24 20:22	1
Chloromethane	ND		3.0		ug/L			09/20/24 20:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 20:22	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 20:22	1
Dibromomethane	ND		1.0		ug/L			09/20/24 20:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 20:22	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 20:22	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 20:22	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 20:22	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-12

Date Collected: 09/11/24 12:50
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 20:22	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 20:22	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 20:22	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 20:22	1
Naphthalene	ND		2.0		ug/L			09/20/24 20:22	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 20:22	1
Styrene	ND		1.0		ug/L			09/20/24 20:22	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 20:22	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 20:22	1
Toluene	ND		1.0		ug/L			09/20/24 20:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 20:22	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 20:22	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 20:22	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 20:22	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 20:22	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*09/20/24 20:22*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/20/24 20:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/20/24 20:22*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/20/24 20:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**3.0**		1.0		mg/L			09/20/24 03:40	10
Chloride	**2000**	**H**	100		mg/L			10/10/24 13:54	200
Fluoride	ND		1.0		mg/L			09/20/24 03:40	10
Nitrate Nitrite as N	ND		2.0		mg/L			09/20/24 05:56	10
Sulfate	**840**		50		mg/L			09/20/24 03:28	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**440**		5.0		mg/L			09/20/24 11:20	5
Magnesium	**77**		5.0		mg/L			09/20/24 11:20	5
Potassium	**25**		1.0		mg/L			09/20/24 15:38	1
Sodium	**1200**		20		mg/L			09/20/24 13:41	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4800**		500		mg/L			09/17/24 17:46	1
Total Alkalinity as CaCO3 (SM 2320B)	**180**		20		mg/L			09/17/24 19:32	1
Specific Conductance (SM 2510B)	**8100**		10		umhos/cm			09/17/24 19:32	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-13

Date Collected: 09/11/24 13:45
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 20:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 20:47	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 20:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 20:47	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 20:47	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 20:47	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 20:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 20:47	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 20:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 20:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 20:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 20:47	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 20:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 20:47	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 20:47	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 20:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 20:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 20:47	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 20:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 20:47	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 20:47	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 20:47	1
2-Butanone	ND		10		ug/L			09/20/24 20:47	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 20:47	1
2-Hexanone	ND		10		ug/L			09/20/24 20:47	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 20:47	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 20:47	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 20:47	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 20:47	1
Acetone	ND		10		ug/L			09/20/24 20:47	1
Benzene	ND		1.0		ug/L			09/20/24 20:47	1
Bromobenzene	ND		1.0		ug/L			09/20/24 20:47	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 20:47	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 20:47	1
Bromoform	ND		1.0		ug/L			09/20/24 20:47	1
Bromomethane	ND		3.0		ug/L			09/20/24 20:47	1
Carbon disulfide	ND		10		ug/L			09/20/24 20:47	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 20:47	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 20:47	1
Chloroethane	ND		2.0		ug/L			09/20/24 20:47	1
Chloroform	ND		1.0		ug/L			09/20/24 20:47	1
Chloromethane	ND		3.0		ug/L			09/20/24 20:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 20:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 20:47	1
Dibromomethane	ND		1.0		ug/L			09/20/24 20:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 20:47	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 20:47	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 20:47	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 20:47	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-13
Date Collected: 09/11/24 13:45
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 20:47	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 20:47	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 20:47	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 20:47	1
Naphthalene	ND		2.0		ug/L			09/20/24 20:47	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 20:47	1
Styrene	ND		1.0		ug/L			09/20/24 20:47	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 20:47	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 20:47	1
Toluene	ND		1.0		ug/L			09/20/24 20:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 20:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 20:47	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 20:47	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 20:47	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 20:47	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/20/24 20:47*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/20/24 20:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/20/24 20:47*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*09/20/24 20:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**6.6**		1.0		mg/L			09/20/24 04:05	10
Chloride	**5500**	**H**	250		mg/L			10/15/24 16:40	500
Fluoride	ND		1.0		mg/L			09/20/24 04:05	10
Nitrate Nitrite as N	**2.5**		2.0		mg/L			09/20/24 06:08	10
Sulfate	**1900**		50		mg/L			09/20/24 03:52	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1300**		100		mg/L			09/20/24 15:42	100
Magnesium	**180**		5.0		mg/L			09/20/24 11:41	5
Potassium	**33**		1.0		mg/L			09/20/24 15:40	1
Sodium	**3200**		50		mg/L			09/20/24 14:09	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**14000**	**E**	250		mg/L			09/17/24 17:46	1
Total Alkalinity as CaCO3 (SM 2320B)	**180**		20		mg/L			09/17/24 19:43	1
Specific Conductance (SM 2510B)	**23000**		100		umhos/cm			09/19/24 15:56	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-15
Date Collected: 09/12/24 14:00
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 21:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 21:11	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 21:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 21:11	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 21:11	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 21:11	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 21:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 21:11	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 21:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 21:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 21:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 21:11	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 21:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 21:11	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 21:11	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 21:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 21:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 21:11	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 21:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 21:11	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 21:11	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 21:11	1
2-Butanone	ND		10		ug/L			09/20/24 21:11	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 21:11	1
2-Hexanone	ND		10		ug/L			09/20/24 21:11	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 21:11	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 21:11	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 21:11	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 21:11	1
Acetone	ND		10		ug/L			09/20/24 21:11	1
Benzene	ND		1.0		ug/L			09/20/24 21:11	1
Bromobenzene	ND		1.0		ug/L			09/20/24 21:11	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 21:11	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 21:11	1
Bromoform	ND		1.0		ug/L			09/20/24 21:11	1
Bromomethane	ND		3.0		ug/L			09/20/24 21:11	1
Carbon disulfide	ND		10		ug/L			09/20/24 21:11	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 21:11	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 21:11	1
Chloroethane	ND		2.0		ug/L			09/20/24 21:11	1
Chloroform	ND		1.0		ug/L			09/20/24 21:11	1
Chloromethane	ND		3.0		ug/L			09/20/24 21:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 21:11	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 21:11	1
Dibromomethane	ND		1.0		ug/L			09/20/24 21:11	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 21:11	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 21:11	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 21:11	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 21:11	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-15
Date Collected: 09/12/24 14:00
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 21:11	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 21:11	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 21:11	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 21:11	1
Naphthalene	ND		2.0		ug/L			09/20/24 21:11	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 21:11	1
Styrene	ND		1.0		ug/L			09/20/24 21:11	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 21:11	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 21:11	1
Toluene	ND		1.0		ug/L			09/20/24 21:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 21:11	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 21:11	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 21:11	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 21:11	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 21:11	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/20/24 21:11*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/20/24 21:11*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*09/20/24 21:11*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/20/24 21:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.2**		1.0		mg/L			09/23/24 15:56	10
Chloride	**720**		50		mg/L			09/23/24 16:09	100
Fluoride	ND		1.0		mg/L			09/23/24 15:56	10
Nitrate Nitrite as N	ND		2.0		mg/L			09/24/24 00:10	10
Sulfate	**2200**		50		mg/L			09/23/24 16:09	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**630**		10		mg/L			09/20/24 11:47	10
Magnesium	**80**		5.0		mg/L			09/20/24 11:45	5
Potassium	**9.2**		1.0		mg/L			09/20/24 15:48	1
Sodium	**760**		20		mg/L			09/20/24 13:53	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4600**		250		mg/L			09/17/24 17:46	1
Total Alkalinity as CaCO3 (SM 2320B)	**230**		20		mg/L			09/17/24 19:54	1
Specific Conductance (SM 2510B)	**5900**		10		umhos/cm			09/17/24 19:54	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-18
Date Collected: 09/11/24 12:20
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 21:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 21:35	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 21:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 21:35	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 21:35	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 21:35	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 21:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 21:35	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 21:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 21:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 21:35	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 21:35	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 21:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 21:35	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 21:35	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 21:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 21:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 21:35	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 21:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 21:35	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 21:35	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 21:35	1
2-Butanone	ND		10		ug/L			09/20/24 21:35	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 21:35	1
2-Hexanone	ND		10		ug/L			09/20/24 21:35	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 21:35	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 21:35	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 21:35	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 21:35	1
Acetone	ND		10		ug/L			09/20/24 21:35	1
Benzene	ND		1.0		ug/L			09/20/24 21:35	1
Bromobenzene	ND		1.0		ug/L			09/20/24 21:35	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 21:35	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 21:35	1
Bromoform	ND		1.0		ug/L			09/20/24 21:35	1
Bromomethane	ND		3.0		ug/L			09/20/24 21:35	1
Carbon disulfide	ND		10		ug/L			09/20/24 21:35	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 21:35	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 21:35	1
Chloroethane	ND		2.0		ug/L			09/20/24 21:35	1
Chloroform	ND		1.0		ug/L			09/20/24 21:35	1
Chloromethane	ND		3.0		ug/L			09/20/24 21:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 21:35	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 21:35	1
Dibromomethane	ND		1.0		ug/L			09/20/24 21:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 21:35	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 21:35	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 21:35	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 21:35	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-18
Date Collected: 09/11/24 12:20
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 21:35	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 21:35	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 21:35	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 21:35	1
Naphthalene	ND		2.0		ug/L			09/20/24 21:35	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 21:35	1
Styrene	ND		1.0		ug/L			09/20/24 21:35	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 21:35	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 21:35	1
Toluene	ND		1.0		ug/L			09/20/24 21:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 21:35	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 21:35	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 21:35	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 21:35	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 21:35	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/20/24 21:35*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/20/24 21:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/20/24 21:35*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*09/20/24 21:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**7.4**		1.0		mg/L			09/23/24 16:21	10
Chloride	**6900**		250		mg/L			09/27/24 13:26	500
Fluoride	ND		1.0		mg/L			09/23/24 16:21	10
Nitrate Nitrite as N	**4.2**		2.0		mg/L			09/24/24 01:00	10
Sulfate	**2100**		50		mg/L			09/23/24 16:34	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1300**		100		mg/L			09/20/24 15:51	100
Magnesium	**210**		5.0		mg/L			09/20/24 11:54	5
Potassium	**37**		1.0		mg/L			09/20/24 15:49	1
Sodium	**3300**		50		mg/L			09/20/24 14:11	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**15000**		500		mg/L			09/17/24 17:46	1
Total Alkalinity as CaCO3 (SM 2320B)	**200**		20		mg/L			09/17/24 20:05	1
Specific Conductance (SM 2510B)	**25000**		100		umhos/cm			09/19/24 15:59	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-27
Date Collected: 09/12/24 13:30
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 22:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 22:00	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 22:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 22:00	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 22:00	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 22:00	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 22:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 22:00	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 22:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 22:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 22:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 22:00	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 22:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 22:00	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 22:00	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 22:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 22:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 22:00	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 22:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 22:00	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 22:00	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 22:00	1
2-Butanone	ND		10		ug/L			09/20/24 22:00	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 22:00	1
2-Hexanone	ND		10		ug/L			09/20/24 22:00	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 22:00	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 22:00	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 22:00	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 22:00	1
Acetone	ND		10		ug/L			09/20/24 22:00	1
Benzene	ND		1.0		ug/L			09/20/24 22:00	1
Bromobenzene	ND		1.0		ug/L			09/20/24 22:00	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 22:00	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 22:00	1
Bromoform	ND		1.0		ug/L			09/20/24 22:00	1
Bromomethane	ND		3.0		ug/L			09/20/24 22:00	1
Carbon disulfide	ND		10		ug/L			09/20/24 22:00	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 22:00	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 22:00	1
Chloroethane	ND		2.0		ug/L			09/20/24 22:00	1
Chloroform	ND		1.0		ug/L			09/20/24 22:00	1
Chloromethane	ND		3.0		ug/L			09/20/24 22:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 22:00	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 22:00	1
Dibromomethane	ND		1.0		ug/L			09/20/24 22:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 22:00	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 22:00	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 22:00	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 22:00	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-27
Date Collected: 09/12/24 13:30
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 22:00	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 22:00	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 22:00	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 22:00	1
Naphthalene	ND		2.0		ug/L			09/20/24 22:00	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 22:00	1
Styrene	ND		1.0		ug/L			09/20/24 22:00	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 22:00	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 22:00	1
Toluene	ND		1.0		ug/L			09/20/24 22:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 22:00	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 22:00	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 22:00	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 22:00	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 22:00	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/20/24 22:00*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/20/24 22:00*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/20/24 22:00*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*09/20/24 22:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.2**		1.0		mg/L			09/23/24 16:46	10
Chloride	**730**		50		mg/L			09/23/24 16:58	100
Fluoride	ND		1.0		mg/L			09/23/24 16:46	10
Nitrate Nitrite as N	ND		2.0		mg/L			09/24/24 01:12	10
Sulfate	**2000**		50		mg/L			09/23/24 16:58	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**630**		10		mg/L			09/20/24 12:01	10
Magnesium	**76**		5.0		mg/L			09/20/24 11:59	5
Potassium	**12**		1.0		mg/L			09/20/24 15:52	1
Sodium	**750**		20		mg/L			09/20/24 13:59	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4000**		500		mg/L			09/17/24 17:46	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			09/17/24 20:17	1
Specific Conductance (SM 2510B)	**6000**		10		umhos/cm			09/17/24 20:17	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-28

Date Collected: 09/11/24 11:45
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-7

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 22:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 22:24	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 22:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 22:24	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 22:24	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 22:24	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 22:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 22:24	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 22:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 22:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 22:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 22:24	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 22:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 22:24	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 22:24	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 22:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 22:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 22:24	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 22:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 22:24	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 22:24	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 22:24	1
2-Butanone	ND		10		ug/L			09/20/24 22:24	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 22:24	1
2-Hexanone	ND		10		ug/L			09/20/24 22:24	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 22:24	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 22:24	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 22:24	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 22:24	1
Acetone	ND		10		ug/L			09/20/24 22:24	1
Benzene	ND		1.0		ug/L			09/20/24 22:24	1
Bromobenzene	ND		1.0		ug/L			09/20/24 22:24	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 22:24	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 22:24	1
Bromoform	ND		1.0		ug/L			09/20/24 22:24	1
Bromomethane	ND		3.0		ug/L			09/20/24 22:24	1
Carbon disulfide	ND		10		ug/L			09/20/24 22:24	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 22:24	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 22:24	1
Chloroethane	ND		2.0		ug/L			09/20/24 22:24	1
Chloroform	ND		1.0		ug/L			09/20/24 22:24	1
Chloromethane	ND		3.0		ug/L			09/20/24 22:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 22:24	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 22:24	1
Dibromomethane	ND		1.0		ug/L			09/20/24 22:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 22:24	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 22:24	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 22:24	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 22:24	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-28
Date Collected: 09/11/24 11:45
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 22:24	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 22:24	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 22:24	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 22:24	1
Naphthalene	ND		2.0		ug/L			09/20/24 22:24	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 22:24	1
Styrene	ND		1.0		ug/L			09/20/24 22:24	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 22:24	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 22:24	1
Toluene	ND		1.0		ug/L			09/20/24 22:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 22:24	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 22:24	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 22:24	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 22:24	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 22:24	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*09/20/24 22:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/20/24 22:24*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/20/24 22:24*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/20/24 22:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**5.1**		1.0		mg/L			09/23/24 17:35	10
Chloride	**4100**		250		mg/L			09/27/24 13:39	500
Fluoride	ND		1.0		mg/L			09/23/24 17:35	10
Nitrate Nitrite as N	**2.2**		2.0		mg/L			09/24/24 01:24	10
Sulfate	**2300**		50		mg/L			09/23/24 17:48	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**980**		100		mg/L			09/20/24 16:00	100
Magnesium	**160**		5.0		mg/L			09/20/24 12:03	5
Potassium	**25**		1.0		mg/L			09/20/24 15:59	1
Sodium	**2400**		50		mg/L			09/20/24 14:12	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10000**	**E**	250		mg/L			09/17/24 17:46	1
Total Alkalinity as CaCO3 (SM 2320B)	**230**		20		mg/L			09/17/24 20:35	1
Specific Conductance (SM 2510B)	**18000**		100		umhos/cm			09/19/24 16:02	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-29
Date Collected: 09/11/24 11:00
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 22:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 22:48	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 22:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 22:48	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 22:48	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 22:48	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 22:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 22:48	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 22:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 22:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 22:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 22:48	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 22:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 22:48	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 22:48	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 22:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 22:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 22:48	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 22:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 22:48	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 22:48	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 22:48	1
2-Butanone	ND		10		ug/L			09/20/24 22:48	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 22:48	1
2-Hexanone	ND		10		ug/L			09/20/24 22:48	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 22:48	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 22:48	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 22:48	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 22:48	1
Acetone	ND		10		ug/L			09/20/24 22:48	1
Benzene	ND		1.0		ug/L			09/20/24 22:48	1
Bromobenzene	ND		1.0		ug/L			09/20/24 22:48	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 22:48	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 22:48	1
Bromoform	ND		1.0		ug/L			09/20/24 22:48	1
Bromomethane	ND		3.0		ug/L			09/20/24 22:48	1
Carbon disulfide	ND		10		ug/L			09/20/24 22:48	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 22:48	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 22:48	1
Chloroethane	ND		2.0		ug/L			09/20/24 22:48	1
Chloroform	ND		1.0		ug/L			09/20/24 22:48	1
Chloromethane	ND		3.0		ug/L			09/20/24 22:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 22:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 22:48	1
Dibromomethane	ND		1.0		ug/L			09/20/24 22:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 22:48	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 22:48	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 22:48	1
Isopropylbenzene	ND		1.0		ug/L			09/20/24 22:48	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-29
Date Collected: 09/11/24 11:00
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 22:48	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 22:48	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 22:48	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 22:48	1
Naphthalene	ND		2.0		ug/L			09/20/24 22:48	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 22:48	1
Styrene	ND		1.0		ug/L			09/20/24 22:48	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 22:48	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 22:48	1
Toluene	ND		1.0		ug/L			09/20/24 22:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 22:48	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 22:48	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 22:48	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 22:48	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 22:48	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*09/20/24 22:48*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/20/24 22:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/20/24 22:48*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*09/20/24 22:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**2.3**		1.0		mg/L			09/23/24 18:00	10
Chloride	**1900**		50		mg/L			09/23/24 18:12	100
Fluoride	ND		1.0		mg/L			09/23/24 18:00	10
Nitrate Nitrite as N	ND		2.0		mg/L			09/24/24 01:37	10
Sulfate	**2300**		50		mg/L			09/23/24 18:12	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**590**		10		mg/L			09/20/24 12:09	10
Magnesium	**84**		5.0		mg/L			09/20/24 12:07	5
Potassium	**16**		1.0		mg/L			09/20/24 16:06	1
Sodium	**1500**		20		mg/L			09/20/24 14:15	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**7000**		500		mg/L			09/17/24 17:46	1
Total Alkalinity as CaCO3 (SM 2320B)	**240**		20		mg/L			09/17/24 20:47	1
Specific Conductance (SM 2510B)	**12000**		100		umhos/cm			09/19/24 16:05	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-31
Date Collected: 09/12/24 14:45
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/24/24 01:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/24/24 01:34	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/24/24 01:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/24/24 01:34	1
1,1-Dichloroethane	ND		1.0		ug/L			09/24/24 01:34	1
1,1-Dichloroethene	ND		1.0		ug/L			09/24/24 01:34	1
1,1-Dichloropropene	ND		1.0		ug/L			09/24/24 01:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/24/24 01:34	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/24/24 01:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/24/24 01:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/24/24 01:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/24/24 01:34	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/24/24 01:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/24/24 01:34	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/24/24 01:34	1
1,2-Dichloropropane	ND		1.0		ug/L			09/24/24 01:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/24/24 01:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/24/24 01:34	1
1,3-Dichloropropane	ND		1.0		ug/L			09/24/24 01:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/24/24 01:34	1
1-Methylnaphthalene	ND		4.0		ug/L			09/24/24 01:34	1
2,2-Dichloropropane	ND		2.0		ug/L			09/24/24 01:34	1
2-Butanone	ND		10		ug/L			09/24/24 01:34	1
2-Chlorotoluene	ND		1.0		ug/L			09/24/24 01:34	1
2-Hexanone	ND		10		ug/L			09/24/24 01:34	1
2-Methylnaphthalene	ND		4.0		ug/L			09/24/24 01:34	1
4-Chlorotoluene	ND		1.0		ug/L			09/24/24 01:34	1
4-Isopropyltoluene	ND		1.0		ug/L			09/24/24 01:34	1
4-Methyl-2-pentanone	ND		10		ug/L			09/24/24 01:34	1
Acetone	ND		10		ug/L			09/24/24 01:34	1
Benzene	ND		1.0		ug/L			09/24/24 01:34	1
Bromobenzene	ND		1.0		ug/L			09/24/24 01:34	1
Bromodichloromethane	ND		1.0		ug/L			09/24/24 01:34	1
Dibromochloromethane	ND		1.0		ug/L			09/24/24 01:34	1
Bromoform	ND		1.0		ug/L			09/24/24 01:34	1
Bromomethane	ND		3.0		ug/L			09/24/24 01:34	1
Carbon disulfide	ND		10		ug/L			09/24/24 01:34	1
Carbon tetrachloride	ND		1.0		ug/L			09/24/24 01:34	1
Chlorobenzene	ND		1.0		ug/L			09/24/24 01:34	1
Chloroethane	ND		2.0		ug/L			09/24/24 01:34	1
Chloroform	ND		1.0		ug/L			09/24/24 01:34	1
Chloromethane	ND		3.0		ug/L			09/24/24 01:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/24/24 01:34	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/24/24 01:34	1
Dibromomethane	ND		1.0		ug/L			09/24/24 01:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/24/24 01:34	1
Ethylbenzene	ND		1.0		ug/L			09/24/24 01:34	1
Hexachlorobutadiene	ND		1.0		ug/L			09/24/24 01:34	1
Isopropylbenzene	ND		1.0		ug/L			09/24/24 01:34	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-31
Date Collected: 09/12/24 14:45
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/24/24 01:34	1
Methylene Chloride	ND		2.5		ug/L			09/24/24 01:34	1
n-Butylbenzene	ND		3.0		ug/L			09/24/24 01:34	1
N-Propylbenzene	ND		1.0		ug/L			09/24/24 01:34	1
Naphthalene	ND		2.0		ug/L			09/24/24 01:34	1
sec-Butylbenzene	ND		1.0		ug/L			09/24/24 01:34	1
Styrene	ND		1.0		ug/L			09/24/24 01:34	1
tert-Butylbenzene	ND		1.0		ug/L			09/24/24 01:34	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/24/24 01:34	1
Toluene	ND		1.0		ug/L			09/24/24 01:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/24/24 01:34	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/24/24 01:34	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/24/24 01:34	1
Trichlorofluoromethane	ND		1.0		ug/L			09/24/24 01:34	1
Vinyl chloride	ND		1.0		ug/L			09/24/24 01:34	1
Xylenes, Total	ND		1.5		ug/L			09/24/24 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/24/24 01:34*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/24/24 01:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/24/24 01:34*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/24/24 01:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			09/23/24 18:25	10
Chloride	**390**		50		mg/L			09/23/24 18:37	100
Fluoride	ND		1.0		mg/L			09/23/24 18:25	10
Nitrate Nitrite as N	ND		2.0		mg/L			09/24/24 01:49	10
Sulfate	**2000**		50		mg/L			09/23/24 18:37	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**570**		10		mg/L			09/20/24 12:13	10
Magnesium	**82**		5.0		mg/L			09/20/24 12:11	5
Potassium	**9.4**		1.0		mg/L			09/20/24 16:07	1
Sodium	**580**		20		mg/L			09/20/24 14:21	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4000**		250		mg/L			09/17/24 17:46	1
Total Alkalinity as CaCO3 (SM 2320B)	**230**		20		mg/L			09/17/24 20:59	1
Specific Conductance (SM 2510B)	**4900**		10		umhos/cm			09/19/24 16:08	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-12510/7
Matrix: Water
Analysis Batch: 12510

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/20/24 14:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/20/24 14:16	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/20/24 14:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/20/24 14:16	1
1,1-Dichloroethane	ND		1.0		ug/L			09/20/24 14:16	1
1,1-Dichloroethene	ND		1.0		ug/L			09/20/24 14:16	1
1,1-Dichloropropene	ND		1.0		ug/L			09/20/24 14:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/24 14:16	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/24 14:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/24 14:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/20/24 14:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/20/24 14:16	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/20/24 14:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/20/24 14:16	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/20/24 14:16	1
1,2-Dichloropropane	ND		1.0		ug/L			09/20/24 14:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/20/24 14:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/20/24 14:16	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/24 14:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/20/24 14:16	1
1-Methylnaphthalene	ND		4.0		ug/L			09/20/24 14:16	1
2,2-Dichloropropane	ND		2.0		ug/L			09/20/24 14:16	1
2-Butanone	ND		10		ug/L			09/20/24 14:16	1
2-Chlorotoluene	ND		1.0		ug/L			09/20/24 14:16	1
2-Hexanone	ND		10		ug/L			09/20/24 14:16	1
2-Methylnaphthalene	ND		4.0		ug/L			09/20/24 14:16	1
4-Chlorotoluene	ND		1.0		ug/L			09/20/24 14:16	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/24 14:16	1
4-Methyl-2-pentanone	ND		10		ug/L			09/20/24 14:16	1
Acetone	ND		10		ug/L			09/20/24 14:16	1
Benzene	ND		1.0		ug/L			09/20/24 14:16	1
Bromobenzene	ND		1.0		ug/L			09/20/24 14:16	1
Bromodichloromethane	ND		1.0		ug/L			09/20/24 14:16	1
Dibromochloromethane	ND		1.0		ug/L			09/20/24 14:16	1
Bromoform	ND		1.0		ug/L			09/20/24 14:16	1
Bromomethane	ND		3.0		ug/L			09/20/24 14:16	1
Carbon disulfide	ND		10		ug/L			09/20/24 14:16	1
Carbon tetrachloride	ND		1.0		ug/L			09/20/24 14:16	1
Chlorobenzene	ND		1.0		ug/L			09/20/24 14:16	1
Chloroethane	ND		2.0		ug/L			09/20/24 14:16	1
Chloroform	ND		1.0		ug/L			09/20/24 14:16	1
Chloromethane	ND		3.0		ug/L			09/20/24 14:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 14:16	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 14:16	1
Dibromomethane	ND		1.0		ug/L			09/20/24 14:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/20/24 14:16	1
Ethylbenzene	ND		1.0		ug/L			09/20/24 14:16	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/24 14:16	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-12510/7
Matrix: Water
Analysis Batch: 12510

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			09/20/24 14:16	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/20/24 14:16	1
Methylene Chloride	ND		3.0		ug/L			09/20/24 14:16	1
n-Butylbenzene	ND		3.0		ug/L			09/20/24 14:16	1
N-Propylbenzene	ND		1.0		ug/L			09/20/24 14:16	1
Naphthalene	ND		2.0		ug/L			09/20/24 14:16	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/24 14:16	1
Styrene	ND		1.0		ug/L			09/20/24 14:16	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/24 14:16	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/20/24 14:16	1
Toluene	ND		1.0		ug/L			09/20/24 14:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/20/24 14:16	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/20/24 14:16	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/20/24 14:16	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/24 14:16	1
Vinyl chloride	ND		1.0		ug/L			09/20/24 14:16	1
Xylenes, Total	ND		1.5		ug/L			09/20/24 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/20/24 14:16*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/20/24 14:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/20/24 14:16*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/20/24 14:16*	*1*

Lab Sample ID: LCS 885-12510/6
Matrix: Water
Analysis Batch: 12510

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	23.1		ug/L		115	70 - 130		
Benzene			20.1	25.3		ug/L		126	70 - 130		
Chlorobenzene			20.1	22.8		ug/L		114	70 - 130		
Toluene			20.2	22.7		ug/L		112	70 - 130		
Trichloroethene (TCE)			20.2	23.5		ug/L		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 885-12819/5
Matrix: Water
Analysis Batch: 12819

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/23/24 22:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/23/24 22:45	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-12819/5
Matrix: Water
Analysis Batch: 12819

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			09/23/24 22:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/23/24 22:45	1
1,1-Dichloroethane	ND		1.0		ug/L			09/23/24 22:45	1
1,1-Dichloroethene	ND		1.0		ug/L			09/23/24 22:45	1
1,1-Dichloropropene	ND		1.0		ug/L			09/23/24 22:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/23/24 22:45	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/23/24 22:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/23/24 22:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/23/24 22:45	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/23/24 22:45	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			09/23/24 22:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/23/24 22:45	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			09/23/24 22:45	1
1,2-Dichloropropane	ND		1.0		ug/L			09/23/24 22:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/23/24 22:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/23/24 22:45	1
1,3-Dichloropropane	ND		1.0		ug/L			09/23/24 22:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/23/24 22:45	1
1-Methylnaphthalene	ND		4.0		ug/L			09/23/24 22:45	1
2,2-Dichloropropane	ND		2.0		ug/L			09/23/24 22:45	1
2-Butanone	ND		10		ug/L			09/23/24 22:45	1
2-Chlorotoluene	ND		1.0		ug/L			09/23/24 22:45	1
2-Hexanone	ND		10		ug/L			09/23/24 22:45	1
2-Methylnaphthalene	ND		4.0		ug/L			09/23/24 22:45	1
4-Chlorotoluene	ND		1.0		ug/L			09/23/24 22:45	1
4-Isopropyltoluene	ND		1.0		ug/L			09/23/24 22:45	1
4-Methyl-2-pentanone	ND		10		ug/L			09/23/24 22:45	1
Acetone	ND		10		ug/L			09/23/24 22:45	1
Benzene	ND		1.0		ug/L			09/23/24 22:45	1
Bromobenzene	ND		1.0		ug/L			09/23/24 22:45	1
Bromodichloromethane	ND		1.0		ug/L			09/23/24 22:45	1
Dibromochloromethane	ND		1.0		ug/L			09/23/24 22:45	1
Bromoform	ND		1.0		ug/L			09/23/24 22:45	1
Bromomethane	ND		3.0		ug/L			09/23/24 22:45	1
Carbon disulfide	ND		10		ug/L			09/23/24 22:45	1
Carbon tetrachloride	ND		1.0		ug/L			09/23/24 22:45	1
Chlorobenzene	ND		1.0		ug/L			09/23/24 22:45	1
Chloroethane	ND		2.0		ug/L			09/23/24 22:45	1
Chloroform	ND		1.0		ug/L			09/23/24 22:45	1
Chloromethane	ND		3.0		ug/L			09/23/24 22:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/23/24 22:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/23/24 22:45	1
Dibromomethane	ND		1.0		ug/L			09/23/24 22:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/23/24 22:45	1
Ethylbenzene	ND		1.0		ug/L			09/23/24 22:45	1
Hexachlorobutadiene	ND		1.0		ug/L			09/23/24 22:45	1
Isopropylbenzene	ND		1.0		ug/L			09/23/24 22:45	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			09/23/24 22:45	1
Methylene Chloride	ND		2.5		ug/L			09/23/24 22:45	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-12819/5
Matrix: Water
Analysis Batch: 12819

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		3.0		ug/L			09/23/24 22:45	1
N-Propylbenzene	ND		1.0		ug/L			09/23/24 22:45	1
Naphthalene	ND		2.0		ug/L			09/23/24 22:45	1
sec-Butylbenzene	ND		1.0		ug/L			09/23/24 22:45	1
Styrene	ND		1.0		ug/L			09/23/24 22:45	1
tert-Butylbenzene	ND		1.0		ug/L			09/23/24 22:45	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			09/23/24 22:45	1
Toluene	ND		1.0		ug/L			09/23/24 22:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/23/24 22:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/23/24 22:45	1
Trichloroethene (TCE)	ND		1.0		ug/L			09/23/24 22:45	1
Trichlorofluoromethane	ND		1.0		ug/L			09/23/24 22:45	1
Vinyl chloride	ND		1.0		ug/L			09/23/24 22:45	1
Xylenes, Total	ND		1.5		ug/L			09/23/24 22:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*09/23/24 22:45*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/23/24 22:45*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/23/24 22:45*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/23/24 22:45*	*1*

Lab Sample ID: MB 885-12819/6
Matrix: Water
Analysis Batch: 12819

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10		ug/L			09/23/24 23:09	1
1,1,1-Trichloroethane	ND		0.10		ug/L			09/23/24 23:09	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			09/23/24 23:09	1
1,1,2-Trichloroethane	ND		0.10		ug/L			09/23/24 23:09	1
1,1-Dichloroethane	ND		0.10		ug/L			09/23/24 23:09	1
1,1-Dichloroethene	ND		0.10		ug/L			09/23/24 23:09	1
1,1-Dichloropropene	ND		0.10		ug/L			09/23/24 23:09	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			09/23/24 23:09	1
1,2,3-Trichloropropane	ND		0.20		ug/L			09/23/24 23:09	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			09/23/24 23:09	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			09/23/24 23:09	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			09/23/24 23:09	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			09/23/24 23:09	1
1,2-Dichlorobenzene	ND		0.10		ug/L			09/23/24 23:09	1
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			09/23/24 23:09	1
1,2-Dichloropropane	ND		0.10		ug/L			09/23/24 23:09	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			09/23/24 23:09	1
1,3-Dichlorobenzene	ND		0.10		ug/L			09/23/24 23:09	1
1,3-Dichloropropane	ND		0.10		ug/L			09/23/24 23:09	1
1,4-Dichlorobenzene	ND		0.10		ug/L			09/23/24 23:09	1
1-Methylnaphthalene	ND		0.40		ug/L			09/23/24 23:09	1
2,2-Dichloropropane	ND		0.20		ug/L			09/23/24 23:09	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-12819/6
Matrix: Water
Analysis Batch: 12819

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		1.0		ug/L			09/23/24 23:09	1
2-Chlorotoluene	ND		0.10		ug/L			09/23/24 23:09	1
2-Hexanone	ND		1.0		ug/L			09/23/24 23:09	1
2-Methylnaphthalene	ND		0.40		ug/L			09/23/24 23:09	1
4-Chlorotoluene	ND		0.10		ug/L			09/23/24 23:09	1
4-Isopropyltoluene	ND		0.10		ug/L			09/23/24 23:09	1
4-Methyl-2-pentanone	ND		1.0		ug/L			09/23/24 23:09	1
Acetone	ND		1.0		ug/L			09/23/24 23:09	1
Benzene	ND		0.10		ug/L			09/23/24 23:09	1
Bromobenzene	ND		0.10		ug/L			09/23/24 23:09	1
Bromodichloromethane	ND		0.10		ug/L			09/23/24 23:09	1
Dibromochloromethane	ND		0.10		ug/L			09/23/24 23:09	1
Bromoform	ND		0.10		ug/L			09/23/24 23:09	1
Bromomethane	ND		0.30		ug/L			09/23/24 23:09	1
Carbon disulfide	ND		1.0		ug/L			09/23/24 23:09	1
Carbon tetrachloride	ND		0.10		ug/L			09/23/24 23:09	1
Chlorobenzene	ND		0.10		ug/L			09/23/24 23:09	1
Chloroethane	ND		0.20		ug/L			09/23/24 23:09	1
Chloroform	ND		0.10		ug/L			09/23/24 23:09	1
Chloromethane	ND		0.30		ug/L			09/23/24 23:09	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			09/23/24 23:09	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			09/23/24 23:09	1
Dibromomethane	ND		0.10		ug/L			09/23/24 23:09	1
Dichlorodifluoromethane	ND		0.10		ug/L			09/23/24 23:09	1
Ethylbenzene	ND		0.10		ug/L			09/23/24 23:09	1
Hexachlorobutadiene	ND		0.10		ug/L			09/23/24 23:09	1
Isopropylbenzene	ND		0.10		ug/L			09/23/24 23:09	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			09/23/24 23:09	1
Methylene Chloride	ND		0.25		ug/L			09/23/24 23:09	1
n-Butylbenzene	ND		0.30		ug/L			09/23/24 23:09	1
N-Propylbenzene	ND		0.10		ug/L			09/23/24 23:09	1
Naphthalene	ND		0.20		ug/L			09/23/24 23:09	1
sec-Butylbenzene	ND		0.10		ug/L			09/23/24 23:09	1
Styrene	ND		0.10		ug/L			09/23/24 23:09	1
tert-Butylbenzene	ND		0.10		ug/L			09/23/24 23:09	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			09/23/24 23:09	1
Toluene	ND		0.10		ug/L			09/23/24 23:09	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			09/23/24 23:09	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			09/23/24 23:09	1
Trichloroethene (TCE)	ND		0.10		ug/L			09/23/24 23:09	1
Trichlorofluoromethane	ND		0.10		ug/L			09/23/24 23:09	1
Vinyl chloride	ND		0.10		ug/L			09/23/24 23:09	1
Xylenes, Total	ND		0.15		ug/L			09/23/24 23:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/23/24 23:09*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/23/24 23:09*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/23/24 23:09*	*1*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-12819/6
Matrix: Water
Analysis Batch: 12819

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		70 - 130		09/23/24 23:09	1

Lab Sample ID: LCS 885-12819/4
Matrix: Water
Analysis Batch: 12819

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.1	21.6		ug/L		107	70 - 130
Benzene	20.1	23.1		ug/L		115	70 - 130
Chlorobenzene	20.1	20.9		ug/L		104	70 - 130
Toluene	20.2	21.4		ug/L		106	70 - 130
Trichloroethene (TCE)	20.2	21.8		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12585/57
Matrix: Water
Analysis Batch: 12585

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	mg/L			09/19/24 20:52	1
Chloride	ND		0.50	mg/L			09/19/24 20:52	1
Fluoride	ND		0.10	mg/L			09/19/24 20:52	1
Sulfate	ND		0.50	mg/L			09/19/24 20:52	1

Lab Sample ID: MB 885-12585/7
Matrix: Water
Analysis Batch: 12585

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	mg/L			09/19/24 08:00	1
Chloride	ND		0.50	mg/L			09/19/24 08:00	1
Fluoride	ND		0.10	mg/L			09/19/24 08:00	1
Sulfate	ND		0.50	mg/L			09/19/24 08:00	1

Lab Sample ID: LCS 885-12585/58
Matrix: Water
Analysis Batch: 12585

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	2.50	2.37		mg/L		95	90 - 110
Chloride	5.00	4.60		mg/L		92	90 - 110
Fluoride	0.500	0.471		mg/L		94	90 - 110

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-12585/58
Matrix: Water
Analysis Batch: 12585

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.08		mg/L		91	90 - 110

Lab Sample ID: MRL 885-12585/8
Matrix: Water
Analysis Batch: 12585

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.100	0.112		mg/L		112	50 - 150
Chloride	0.500	0.532		mg/L		106	50 - 150
Fluoride	0.100	0.0936	J	mg/L		94	50 - 150
Sulfate	0.500	0.478	J	mg/L		96	50 - 150

Lab Sample ID: MB 885-12586/57
Matrix: Water
Analysis Batch: 12586

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			09/19/24 20:52	1

Lab Sample ID: MB 885-12586/7
Matrix: Water
Analysis Batch: 12586

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			09/19/24 08:00	1

Lab Sample ID: LCS 885-12586/58
Matrix: Water
Analysis Batch: 12586

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate	2.50	2.44		mg/L		97	90 - 110
Nitrite	1.00	0.911		mg/L		91	90 - 110
Nitrate Nitrite as N	3.50	3.35		mg/L		96	90 - 110

Lab Sample ID: MRL 885-12586/8
Matrix: Water
Analysis Batch: 12586

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate	0.100	0.106		mg/L		106	50 - 150
Nitrite	0.0999	0.105		mg/L		105	50 - 150
Nitrate Nitrite as N	0.200	0.211		mg/L		106	50 - 150

Lab Sample ID: MB 885-12826/4
Matrix: Water
Analysis Batch: 12826

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	mg/L			09/23/24 10:23	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-12826/4
Matrix: Water
Analysis Batch: 12826

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			09/23/24 10:23	1
Fluoride	ND		0.10		mg/L			09/23/24 10:23	1
Sulfate	ND		0.50		mg/L			09/23/24 10:23	1

Lab Sample ID: LCS 885-12826/5
Matrix: Water
Analysis Batch: 12826

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			2.50	2.38		mg/L		95	90 - 110		
Chloride			5.00	4.72		mg/L		94	90 - 110		
Fluoride			0.500	0.498		mg/L		100	90 - 110		
Sulfate			10.0	9.32		mg/L		93	90 - 110		

Lab Sample ID: MRL 885-12826/3
Matrix: Water
Analysis Batch: 12826

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			0.100	0.106		mg/L		106	50 - 150		
Chloride			0.500	0.534		mg/L		107	50 - 150		
Fluoride			0.100	0.102		mg/L		102	50 - 150		
Sulfate			0.500	0.543		mg/L		109	50 - 150		

Lab Sample ID: MB 885-12827/4
Matrix: Water
Analysis Batch: 12827

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20		mg/L			09/23/24 10:23	1

Lab Sample ID: LCS 885-12827/5
Matrix: Water
Analysis Batch: 12827

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate			2.50	2.48		mg/L		99	90 - 110		
Nitrite			1.00	0.910		mg/L		91	90 - 110		
Nitrate Nitrite as N			3.50	3.39		mg/L		97	90 - 110		

Lab Sample ID: MRL 885-12827/3
Matrix: Water
Analysis Batch: 12827

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate			0.100	0.108		mg/L		108	50 - 150		
Nitrite			0.0999	0.103		mg/L		103	50 - 150		
Nitrate Nitrite as N			0.200	0.211		mg/L		106	50 - 150		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-13231/4
Matrix: Water
Analysis Batch: 13231

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			09/27/24 08:30	1
Chloride	ND		0.50		mg/L			09/27/24 08:30	1
Fluoride	ND		0.10		mg/L			09/27/24 08:30	1
Sulfate	ND		0.50		mg/L			09/27/24 08:30	1

Lab Sample ID: LCS 885-13231/5
Matrix: Water
Analysis Batch: 13231

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			2.50	2.64		mg/L		106	90 - 110		
Chloride			5.00	5.00		mg/L		100	90 - 110		
Fluoride			0.500	0.518		mg/L		104	90 - 110		
Sulfate			10.0	9.44		mg/L		94	90 - 110		

Lab Sample ID: MRL 885-13231/3
Matrix: Water
Analysis Batch: 13231

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			0.100	0.102		mg/L		102	50 - 150		
Chloride			0.500	0.544		mg/L		109	50 - 150		
Fluoride			0.100	0.101		mg/L		101	50 - 150		
Sulfate			0.500	0.494	J	mg/L		99	50 - 150		

Lab Sample ID: MB 885-14184/4
Matrix: Water
Analysis Batch: 14184

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			10/10/24 09:59	1
Chloride	ND		0.50		mg/L			10/10/24 09:59	1
Fluoride	ND		0.10		mg/L			10/10/24 09:59	1
Sulfate	ND		0.50		mg/L			10/10/24 09:59	1

Lab Sample ID: LCS 885-14184/5
Matrix: Water
Analysis Batch: 14184

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			2.50	2.39		mg/L		96	90 - 110		
Chloride			5.00	4.73		mg/L		95	90 - 110		
Fluoride			0.500	0.515		mg/L		103	90 - 110		
Sulfate			10.0	9.37		mg/L		94	90 - 110		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-14184/3
Matrix: Water
Analysis Batch: 14184

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.100	0.103		mg/L		103	50 - 150
Chloride	0.500	0.527		mg/L		105	50 - 150
Fluoride	0.100	0.103		mg/L		103	50 - 150
Sulfate	0.500	0.498	J	mg/L		100	50 - 150

Lab Sample ID: MB 885-14296/4
Matrix: Water
Analysis Batch: 14296

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			10/15/24 16:13	1
Chloride	ND		0.50		mg/L			10/15/24 16:13	1
Fluoride	ND		0.10		mg/L			10/15/24 16:13	1
Sulfate	ND		0.50		mg/L			10/15/24 16:13	1

Lab Sample ID: LCS 885-14296/5
Matrix: Water
Analysis Batch: 14296

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	2.50	2.38		mg/L		95	90 - 110
Chloride	5.00	4.69		mg/L		94	90 - 110
Fluoride	0.500	0.485		mg/L		97	90 - 110
Sulfate	10.0	9.29		mg/L		93	90 - 110

Lab Sample ID: MRL 885-14296/3
Matrix: Water
Analysis Batch: 14296

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.100	0.0881	J	mg/L		88	50 - 150
Chloride	0.500	0.522		mg/L		104	50 - 150
Fluoride	0.100	0.0944	J	mg/L		94	50 - 150
Sulfate	0.500	0.480	J	mg/L		96	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-12656/44
Matrix: Water
Analysis Batch: 12656

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.0		mg/L			09/20/24 11:05	1
Magnesium	ND		1.0		mg/L			09/20/24 11:05	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 885-12656/46
Matrix: Water
Analysis Batch: 12656

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50.0	56.2		mg/L		112	85 - 115
Magnesium	50.0	56.6		mg/L		113	85 - 115

Lab Sample ID: LLCS 885-12656/53
Matrix: Water
Analysis Batch: 12656

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.500	0.514	J	mg/L		103	50 - 150
Magnesium	0.500	0.519	J	mg/L		104	50 - 150

Lab Sample ID: MRL 885-12656/40
Matrix: Water
Analysis Batch: 12656

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.500	0.501	J	mg/L		100	50 - 150
Magnesium	0.500	0.526	J	mg/L		105	50 - 150

Lab Sample ID: MB 885-12702/22
Matrix: Water
Analysis Batch: 12702

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0		mg/L			09/20/24 13:43	1

Lab Sample ID: LCS 885-12702/16
Matrix: Water
Analysis Batch: 12702

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	50.0	55.9		mg/L		112	85 - 115

Lab Sample ID: LLCS 885-12702/23
Matrix: Water
Analysis Batch: 12702

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	0.500	0.632	J	mg/L		126	50 - 150

Lab Sample ID: MRL 885-12702/11
Matrix: Water
Analysis Batch: 12702

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	0.500	0.663	J	mg/L		133	50 - 150

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 885-12707/14
Matrix: Water
Analysis Batch: 12707

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.0		mg/L			09/20/24 15:30	1
Potassium	ND		1.0		mg/L			09/20/24 15:30	1
Sodium	ND		1.0		mg/L			09/20/24 15:30	1

Lab Sample ID: LCS 885-12707/16
Matrix: Water
Analysis Batch: 12707

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			50.0	54.2		mg/L		108	85 - 115		
Potassium			50.0	55.5		mg/L		111	85 - 115		
Sodium			50.0	55.8		mg/L		112	85 - 115		

Lab Sample ID: LLCS 885-12707/15
Matrix: Water
Analysis Batch: 12707

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			0.500	0.515	J	mg/L		103	50 - 150		
Potassium			0.500	0.611	J	mg/L		122	50 - 150		
Sodium			0.500	0.688	J	mg/L		138	50 - 150		

Lab Sample ID: MRL 885-12707/11
Matrix: Water
Analysis Batch: 12707

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			0.500	0.502	J	mg/L		100	50 - 150		
Potassium			0.500	0.454	J	mg/L		91	50 - 150		
Sodium			0.500	0.473	J	mg/L		95	50 - 150		

Lab Sample ID: 885-11767-6 MS
Matrix: Water
Analysis Batch: 12707

Client Sample ID: MW-27
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Potassium	12		50.0	63.2		mg/L		103	70 - 130		

Lab Sample ID: 885-11767-6 MSD
Matrix: Water
Analysis Batch: 12707

Client Sample ID: MW-27
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	12		50.0	63.3		mg/L		103	70 - 130	0	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-12396/1
Matrix: Water
Analysis Batch: 12396

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			09/17/24 11:50	1

Lab Sample ID: LCS 885-12396/2
Matrix: Water
Analysis Batch: 12396

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1010		mg/L		101	80 - 120		

Lab Sample ID: MB 885-12431/1
Matrix: Water
Analysis Batch: 12431

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			09/17/24 17:46	1

Lab Sample ID: LCS 885-12431/2
Matrix: Water
Analysis Batch: 12431

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1020		mg/L		101	80 - 120		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 885-12482/2
Matrix: Water
Analysis Batch: 12482

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	ND		20		mg/L			09/17/24 15:05	1

Lab Sample ID: LCS 885-12482/3
Matrix: Water
Analysis Batch: 12482

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			84.8	78.0		mg/L		92	90 - 110		

Lab Sample ID: MRL 885-12482/1
Matrix: Water
Analysis Batch: 12482

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			21.2	25.6		mg/L		121	50 - 150		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 885-12810/2
Matrix: Water
Analysis Batch: 12810

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	ND		20		mg/L			09/19/24 15:39	1

Lab Sample ID: LCS 885-12810/3
Matrix: Water
Analysis Batch: 12810

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			84.8	78.2		mg/L		92	90 - 110		

Lab Sample ID: MRL 885-12810/1
Matrix: Water
Analysis Batch: 12810

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			21.2	23.6		mg/L		112	50 - 150		

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCS 885-12483/4
Matrix: Water
Analysis Batch: 12483

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			99.2	101		umhos/cm		101	85 - 115		

Lab Sample ID: MRL 885-12483/3
Matrix: Water
Analysis Batch: 12483

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			9.92	ND		umhos/cm		96	50 - 150		

Lab Sample ID: LCS 885-12811/4
Matrix: Water
Analysis Batch: 12811

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			99.2	102		umhos/cm		103	85 - 115		

Lab Sample ID: MRL 885-12811/3
Matrix: Water
Analysis Batch: 12811

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			9.92	ND		umhos/cm		97	50 - 150		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Method: SM 2510B - Conductivity, Specific Conductance (Continued)

Lab Sample ID: 885-11767-9 DU
Matrix: Water
Analysis Batch: 12811

Client Sample ID: MW-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	4900			4920		umhos/cm				0.1	20

Lab Sample ID: LCS 885-12877/4
Matrix: Water
Analysis Batch: 12877

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			99.2	100		umhos/cm		101	85 - 115		

Lab Sample ID: MRL 885-12877/3
Matrix: Water
Analysis Batch: 12877

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			9.92	ND		umhos/cm		93	50 - 150		

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

GC/MS VOA

Analysis Batch: 12510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Total/NA	Water	8260B	
885-11767-2	MW-12	Total/NA	Water	8260B	
885-11767-3	MW-13	Total/NA	Water	8260B	
885-11767-4	MW-15	Total/NA	Water	8260B	
885-11767-5	MW-18	Total/NA	Water	8260B	
885-11767-6	MW-27	Total/NA	Water	8260B	
885-11767-7	MW-28	Total/NA	Water	8260B	
885-11767-8	MW-29	Total/NA	Water	8260B	
MB 885-12510/7	Method Blank	Total/NA	Water	8260B	
LCS 885-12510/6	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 12819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-9	MW-31	Total/NA	Water	8260B	
MB 885-12819/5	Method Blank	Total/NA	Water	8260B	
MB 885-12819/6	Method Blank	Total/NA	Water	8260B	
LCS 885-12819/4	Lab Control Sample	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 12585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Total/NA	Water	300.0	
885-11767-1	MW-10	Total/NA	Water	300.0	
885-11767-2	MW-12	Total/NA	Water	300.0	
885-11767-2	MW-12	Total/NA	Water	300.0	
885-11767-3	MW-13	Total/NA	Water	300.0	
885-11767-3	MW-13	Total/NA	Water	300.0	
MB 885-12585/57	Method Blank	Total/NA	Water	300.0	
MB 885-12585/7	Method Blank	Total/NA	Water	300.0	
LCS 885-12585/58	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-12585/8	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 12586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Total/NA	Water	300.0	
885-11767-2	MW-12	Total/NA	Water	300.0	
885-11767-3	MW-13	Total/NA	Water	300.0	
MB 885-12586/57	Method Blank	Total/NA	Water	300.0	
MB 885-12586/7	Method Blank	Total/NA	Water	300.0	
LCS 885-12586/58	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-12586/8	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 12826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-4	MW-15	Total/NA	Water	300.0	
885-11767-4	MW-15	Total/NA	Water	300.0	
885-11767-5	MW-18	Total/NA	Water	300.0	
885-11767-5	MW-18	Total/NA	Water	300.0	
885-11767-6	MW-27	Total/NA	Water	300.0	
885-11767-6	MW-27	Total/NA	Water	300.0	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

HPLC/IC (Continued)

Analysis Batch: 12826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-7	MW-28	Total/NA	Water	300.0	
885-11767-7	MW-28	Total/NA	Water	300.0	
885-11767-8	MW-29	Total/NA	Water	300.0	
885-11767-8	MW-29	Total/NA	Water	300.0	
885-11767-9	MW-31	Total/NA	Water	300.0	
885-11767-9	MW-31	Total/NA	Water	300.0	
MB 885-12826/4	Method Blank	Total/NA	Water	300.0	
LCS 885-12826/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-12826/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 12827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-4	MW-15	Total/NA	Water	300.0	
885-11767-5	MW-18	Total/NA	Water	300.0	
885-11767-6	MW-27	Total/NA	Water	300.0	
885-11767-7	MW-28	Total/NA	Water	300.0	
885-11767-8	MW-29	Total/NA	Water	300.0	
885-11767-9	MW-31	Total/NA	Water	300.0	
MB 885-12827/4	Method Blank	Total/NA	Water	300.0	
LCS 885-12827/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-12827/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 13231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-5	MW-18	Total/NA	Water	300.0	
885-11767-7	MW-28	Total/NA	Water	300.0	
MB 885-13231/4	Method Blank	Total/NA	Water	300.0	
LCS 885-13231/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-13231/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 14184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Total/NA	Water	300.0	
885-11767-2	MW-12	Total/NA	Water	300.0	
MB 885-14184/4	Method Blank	Total/NA	Water	300.0	
LCS 885-14184/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14184/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 14296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-3	MW-13	Total/NA	Water	300.0	
MB 885-14296/4	Method Blank	Total/NA	Water	300.0	
LCS 885-14296/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14296/3	Lab Control Sample	Total/NA	Water	300.0	

Metals

Filtration Batch: 12308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Dissolved	Water	Filtration	
885-11767-2	MW-12	Dissolved	Water	Filtration	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Metals (Continued)

Filtration Batch: 12308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-3	MW-13	Dissolved	Water	Filtration	
885-11767-4	MW-15	Dissolved	Water	Filtration	
885-11767-5	MW-18	Dissolved	Water	Filtration	
885-11767-6	MW-27	Dissolved	Water	Filtration	
885-11767-7	MW-28	Dissolved	Water	Filtration	
885-11767-8	MW-29	Dissolved	Water	Filtration	
885-11767-9	MW-31	Dissolved	Water	Filtration	
885-11767-6 MS	MW-27	Dissolved	Water	Filtration	
885-11767-6 MSD	MW-27	Dissolved	Water	Filtration	

Analysis Batch: 12656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-1	MW-10	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-2	MW-12	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-3	MW-13	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-4	MW-15	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-4	MW-15	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-5	MW-18	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-6	MW-27	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-6	MW-27	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-7	MW-28	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-8	MW-29	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-8	MW-29	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-9	MW-31	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-9	MW-31	Dissolved	Water	200.7 Rev 4.4	12308
MB 885-12656/44	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-12656/46	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LLCS 885-12656/53	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-12656/40	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 12702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-2	MW-12	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-3	MW-13	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-4	MW-15	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-5	MW-18	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-6	MW-27	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-7	MW-28	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-8	MW-29	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-9	MW-31	Dissolved	Water	200.7 Rev 4.4	12308
MB 885-12702/22	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-12702/16	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LLCS 885-12702/23	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-12702/11	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 12707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-2	MW-12	Dissolved	Water	200.7 Rev 4.4	12308

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Metals (Continued)

Analysis Batch: 12707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-3	MW-13	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-3	MW-13	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-4	MW-15	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-5	MW-18	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-5	MW-18	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-6	MW-27	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-7	MW-28	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-7	MW-28	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-8	MW-29	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-9	MW-31	Dissolved	Water	200.7 Rev 4.4	12308
MB 885-12707/14	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-12707/16	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LLCS 885-12707/15	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-12707/11	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
885-11767-6 MS	MW-27	Dissolved	Water	200.7 Rev 4.4	12308
885-11767-6 MSD	MW-27	Dissolved	Water	200.7 Rev 4.4	12308

General Chemistry

Analysis Batch: 12396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Total/NA	Water	2540C	
MB 885-12396/1	Method Blank	Total/NA	Water	2540C	
LCS 885-12396/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 12431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-2	MW-12	Total/NA	Water	2540C	
885-11767-3	MW-13	Total/NA	Water	2540C	
885-11767-4	MW-15	Total/NA	Water	2540C	
885-11767-5	MW-18	Total/NA	Water	2540C	
885-11767-6	MW-27	Total/NA	Water	2540C	
885-11767-7	MW-28	Total/NA	Water	2540C	
885-11767-8	MW-29	Total/NA	Water	2540C	
885-11767-9	MW-31	Total/NA	Water	2540C	
MB 885-12431/1	Method Blank	Total/NA	Water	2540C	
LCS 885-12431/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 12482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-2	MW-12	Total/NA	Water	SM 2320B	
885-11767-3	MW-13	Total/NA	Water	SM 2320B	
885-11767-4	MW-15	Total/NA	Water	SM 2320B	
885-11767-5	MW-18	Total/NA	Water	SM 2320B	
885-11767-6	MW-27	Total/NA	Water	SM 2320B	
885-11767-7	MW-28	Total/NA	Water	SM 2320B	
885-11767-8	MW-29	Total/NA	Water	SM 2320B	
885-11767-9	MW-31	Total/NA	Water	SM 2320B	
MB 885-12482/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 885-12482/3	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 885-12482/1	Lab Control Sample	Total/NA	Water	SM 2320B	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

General Chemistry

Analysis Batch: 12483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-2	MW-12	Total/NA	Water	SM 2510B	
885-11767-4	MW-15	Total/NA	Water	SM 2510B	
885-11767-6	MW-27	Total/NA	Water	SM 2510B	
LCS 885-12483/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-12483/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 12810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Total/NA	Water	SM 2320B	
MB 885-12810/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 885-12810/3	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 885-12810/1	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 12811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-3	MW-13	Total/NA	Water	SM 2510B	
885-11767-5	MW-18	Total/NA	Water	SM 2510B	
885-11767-7	MW-28	Total/NA	Water	SM 2510B	
885-11767-8	MW-29	Total/NA	Water	SM 2510B	
885-11767-9	MW-31	Total/NA	Water	SM 2510B	
LCS 885-12811/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-12811/3	Lab Control Sample	Total/NA	Water	SM 2510B	
885-11767-9 DU	MW-31	Total/NA	Water	SM 2510B	

Analysis Batch: 12877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11767-1	MW-10	Total/NA	Water	SM 2510B	
LCS 885-12877/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-12877/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-10

Lab Sample ID: 885-11767-1

Date Collected: 09/11/24 14:20
Date Received: 09/13/24 07:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12510	RA	EET ALB	09/20/24 19:58
Total/NA	Analysis	300.0		200	14184	RC	EET ALB	10/10/24 13:41
Total/NA	Analysis	300.0		100	12585	RC	EET ALB	09/20/24 03:03
Total/NA	Analysis	300.0		10	12585	RC	EET ALB	09/20/24 03:15
Total/NA	Analysis	300.0		10	12586	RC	EET ALB	09/20/24 05:43
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		5	12656	VP	EET ALB	09/20/24 11:18
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		10	12656	VP	EET ALB	09/20/24 11:37
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		20	12702	VP	EET ALB	09/20/24 13:37
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		1	12707	VP	EET ALB	09/20/24 15:37
Total/NA	Analysis	2540C		1	12396	ES	EET ALB	09/17/24 11:50
Total/NA	Analysis	SM 2320B		1	12810	DL	EET ALB	09/19/24 16:23
Total/NA	Analysis	SM 2510B		10	12877	DL	EET ALB	09/23/24 13:07

Client Sample ID: MW-12

Lab Sample ID: 885-11767-2

Date Collected: 09/11/24 12:50
Date Received: 09/13/24 07:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12510	RA	EET ALB	09/20/24 20:22
Total/NA	Analysis	300.0		200	14184	RC	EET ALB	10/10/24 13:54
Total/NA	Analysis	300.0		100	12585	RC	EET ALB	09/20/24 03:28
Total/NA	Analysis	300.0		10	12585	RC	EET ALB	09/20/24 03:40
Total/NA	Analysis	300.0		10	12586	RC	EET ALB	09/20/24 05:56
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		5	12656	VP	EET ALB	09/20/24 11:20
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		20	12702	VP	EET ALB	09/20/24 13:41
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		1	12707	VP	EET ALB	09/20/24 15:38
Total/NA	Analysis	2540C		1	12431	KS	EET ALB	09/17/24 17:46
Total/NA	Analysis	SM 2320B		1	12482	DL	EET ALB	09/17/24 19:32
Total/NA	Analysis	SM 2510B		1	12483	DL	EET ALB	09/17/24 19:32

Client Sample ID: MW-13

Lab Sample ID: 885-11767-3

Date Collected: 09/11/24 13:45
Date Received: 09/13/24 07:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12510	RA	EET ALB	09/20/24 20:47

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-13

Lab Sample ID: 885-11767-3

Date Collected: 09/11/24 13:45
Matrix: Water
Date Received: 09/13/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		500	14296	RC	EET ALB	10/15/24 16:40
Total/NA	Analysis	300.0		100	12585	RC	EET ALB	09/20/24 03:52
Total/NA	Analysis	300.0		10	12585	RC	EET ALB	09/20/24 04:05
Total/NA	Analysis	300.0		10	12586	RC	EET ALB	09/20/24 06:08
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		5	12656	VP	EET ALB	09/20/24 11:41
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		50	12702	VP	EET ALB	09/20/24 14:09
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		1	12707	VP	EET ALB	09/20/24 15:40
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		100	12707	VP	EET ALB	09/20/24 15:42
Total/NA	Analysis	2540C		1	12431	KS	EET ALB	09/17/24 17:46
Total/NA	Analysis	SM 2320B		1	12482	DL	EET ALB	09/17/24 19:43
Total/NA	Analysis	SM 2510B		10	12811	DL	EET ALB	09/19/24 15:56

Client Sample ID: MW-15

Lab Sample ID: 885-11767-4

Date Collected: 09/12/24 14:00
Matrix: Water
Date Received: 09/13/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12510	RA	EET ALB	09/20/24 21:11
Total/NA	Analysis	300.0		10	12826	RC	EET ALB	09/23/24 15:56
Total/NA	Analysis	300.0		100	12826	RC	EET ALB	09/23/24 16:09
Total/NA	Analysis	300.0		10	12827	RC	EET ALB	09/24/24 00:10
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		5	12656	VP	EET ALB	09/20/24 11:45
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		10	12656	VP	EET ALB	09/20/24 11:47
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		20	12702	VP	EET ALB	09/20/24 13:53
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		1	12707	VP	EET ALB	09/20/24 15:48
Total/NA	Analysis	2540C		1	12431	KS	EET ALB	09/17/24 17:46
Total/NA	Analysis	SM 2320B		1	12482	DL	EET ALB	09/17/24 19:54
Total/NA	Analysis	SM 2510B		1	12483	DL	EET ALB	09/17/24 19:54

Client Sample ID: MW-18

Lab Sample ID: 885-11767-5

Date Collected: 09/11/24 12:20
Matrix: Water
Date Received: 09/13/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12510	RA	EET ALB	09/20/24 21:35

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-18

Lab Sample ID: 885-11767-5
Matrix: Water
Date Collected: 09/11/24 12:20
Date Received: 09/13/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	12826	RC	EET ALB	09/23/24 16:21
Total/NA	Analysis	300.0		100	12826	RC	EET ALB	09/23/24 16:34
Total/NA	Analysis	300.0		10	12827	RC	EET ALB	09/24/24 01:00
Total/NA	Analysis	300.0		500	13231	JT	EET ALB	09/27/24 13:26
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		5	12656	VP	EET ALB	09/20/24 11:54
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		50	12702	VP	EET ALB	09/20/24 14:11
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		1	12707	VP	EET ALB	09/20/24 15:49
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		100	12707	VP	EET ALB	09/20/24 15:51
Total/NA	Analysis	2540C		1	12431	KS	EET ALB	09/17/24 17:46
Total/NA	Analysis	SM 2320B		1	12482	DL	EET ALB	09/17/24 20:05
Total/NA	Analysis	SM 2510B		10	12811	DL	EET ALB	09/19/24 15:59

Client Sample ID: MW-27

Lab Sample ID: 885-11767-6
Matrix: Water
Date Collected: 09/12/24 13:30
Date Received: 09/13/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12510	RA	EET ALB	09/20/24 22:00
Total/NA	Analysis	300.0		10	12826	RC	EET ALB	09/23/24 16:46
Total/NA	Analysis	300.0		100	12826	RC	EET ALB	09/23/24 16:58
Total/NA	Analysis	300.0		10	12827	RC	EET ALB	09/24/24 01:12
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		5	12656	VP	EET ALB	09/20/24 11:59
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		10	12656	VP	EET ALB	09/20/24 12:01
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		20	12702	VP	EET ALB	09/20/24 13:59
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		1	12707	VP	EET ALB	09/20/24 15:52
Total/NA	Analysis	2540C		1	12431	KS	EET ALB	09/17/24 17:46
Total/NA	Analysis	SM 2320B		1	12482	DL	EET ALB	09/17/24 20:17
Total/NA	Analysis	SM 2510B		1	12483	DL	EET ALB	09/17/24 20:17

Client Sample ID: MW-28

Lab Sample ID: 885-11767-7
Matrix: Water
Date Collected: 09/11/24 11:45
Date Received: 09/13/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12510	RA	EET ALB	09/20/24 22:24

Lab Chronicle

Client: Hilcorp Energy
Job ID: 885-11767-1
Project/Site: Salty Dog Pipeline

Client Sample ID: MW-28
Lab Sample ID: 885-11767-7
Date Collected: 09/11/24 11:45
Matrix: Water
Date Received: 09/13/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	12826	RC	EET ALB	09/23/24 17:35
Total/NA	Analysis	300.0		100	12826	RC	EET ALB	09/23/24 17:48
Total/NA	Analysis	300.0		10	12827	RC	EET ALB	09/24/24 01:24
Total/NA	Analysis	300.0		500	13231	JT	EET ALB	09/27/24 13:39
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		5	12656	VP	EET ALB	09/20/24 12:03
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		50	12702	VP	EET ALB	09/20/24 14:12
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		1	12707	VP	EET ALB	09/20/24 15:59
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		100	12707	VP	EET ALB	09/20/24 16:00
Total/NA	Analysis	2540C		1	12431	KS	EET ALB	09/17/24 17:46
Total/NA	Analysis	SM 2320B		1	12482	DL	EET ALB	09/17/24 20:35
Total/NA	Analysis	SM 2510B		10	12811	DL	EET ALB	09/19/24 16:02

Client Sample ID: MW-29
Lab Sample ID: 885-11767-8
Date Collected: 09/11/24 11:00
Matrix: Water
Date Received: 09/13/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12510	RA	EET ALB	09/20/24 22:48
Total/NA	Analysis	300.0		10	12826	RC	EET ALB	09/23/24 18:00
Total/NA	Analysis	300.0		100	12826	RC	EET ALB	09/23/24 18:12
Total/NA	Analysis	300.0		10	12827	RC	EET ALB	09/24/24 01:37
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		5	12656	VP	EET ALB	09/20/24 12:07
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		10	12656	VP	EET ALB	09/20/24 12:09
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		20	12702	VP	EET ALB	09/20/24 14:15
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		1	12707	VP	EET ALB	09/20/24 16:06
Total/NA	Analysis	2540C		1	12431	KS	EET ALB	09/17/24 17:46
Total/NA	Analysis	SM 2320B		1	12482	DL	EET ALB	09/17/24 20:47
Total/NA	Analysis	SM 2510B		10	12811	DL	EET ALB	09/19/24 16:05

Client Sample ID: MW-31
Lab Sample ID: 885-11767-9
Date Collected: 09/12/24 14:45
Matrix: Water
Date Received: 09/13/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	12819	CM	EET ALB	09/24/24 01:34

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Client Sample ID: MW-31

Date Collected: 09/12/24 14:45
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11767-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	12826	RC	EET ALB	09/23/24 18:25
Total/NA	Analysis	300.0		100	12826	RC	EET ALB	09/23/24 18:37
Total/NA	Analysis	300.0		10	12827	RC	EET ALB	09/24/24 01:49
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		5	12656	VP	EET ALB	09/20/24 12:11
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		10	12656	VP	EET ALB	09/20/24 12:13
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		20	12702	VP	EET ALB	09/20/24 14:21
Dissolved	Filtration	Filtration			12308	NP	EET ALB	09/16/24 11:10
Dissolved	Analysis	200.7 Rev 4.4		1	12707	VP	EET ALB	09/20/24 16:07
Total/NA	Analysis	2540C		1	12431	KS	EET ALB	09/17/24 17:46
Total/NA	Analysis	SM 2320B		1	12482	DL	EET ALB	09/17/24 20:59
Total/NA	Analysis	SM 2510B		1	12811	DL	EET ALB	09/19/24 16:08

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

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
200.7 Rev 4.4		Water	Calcium
200.7 Rev 4.4		Water	Magnesium
200.7 Rev 4.4		Water	Potassium
200.7 Rev 4.4		Water	Sodium
2540C		Water	Total Dissolved Solids
300.0		Water	Bromide
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-11767-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	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
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total
SM 2320B		Water	Total Alkalinity as CaCO3
SM 2510B		Water	Specific Conductance

Chain-of-Custody Record

Client: Hilcorp Farmington NM

Mailing Address: 382 Road 3100 Aztec, NM 87410

Billing Address: PO Box 61529 Houston, TX 77208

Phone #: 505-486-9543

email or Fax#: Brandon.Sinclair@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:

X Standard ☐ Rush_____

Project Name:

Salty Dog Pipeline

Project #:

Project Manager:

Mitch Killough

Sampler: Brandon Sinclair

On Ice: ☐ Yes ☐ No

# of Coolers: 1 MUFO

Cooler Temp(including CF): 4.4+0.1=4.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-11767 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Cations/Anions/TDS/pH/Alkalinity (1) Liter Plastic	Volatiles 8260 40ml VOA HCl		
9-11	1420	Water	MW-10	Various	Various	1	X	X		
9-11	1250	Water	MW-12	Various	Various	2	X	X		
9-11	1345	Water	MW-13	Various	Various	3	X	X		
9-12	1400	Water	MW-15	Various	Various	4	X	X		
9-11	1220	Water	MW-18	Various	Various	5	X	X		
9-12	1330	Water	MW-27	Various	Various	6	X	X		
9-11	1145	Water	MW-28	Various	Various	7	X	X		
9-11	1100	Water	MW-29	Various	Various	8	X	X		
9-12	1445	Water	MW-31	Various	Various	9	X	X		
		~~Water~~		~~Various~~	~~Various~~		~~X~~	~~X~~	a	
		~~Water~~		~~Various~~	~~Various~~		~~X~~	~~X~~	c	
		~~Water~~		~~Various~~	~~Various~~		~~X~~	~~X~~	d	
		~~Water~~		Various	Various		X	X	e	

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/12/24	1724				9/12/24	1724
9/12/24	1830			Courier	9/13/24	7:15

Preserve the Cation/Anions in the lab. Cations: Calcium, Magnesium, Potassium and Sodium, Anions:Bromide, Chloride, Sulfate, Fluoride, Nitrate+Nitrite and Phosphorous.

10/18/2024

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-11767-1

Login Number: 11767 **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.	False	Did not receive all required containers.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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.	False	Sample splitting/preserving requested.
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/23/2024 5:08:58 PM

JOB DESCRIPTION

Salty Dog Pipeline

JOB NUMBER

885-16944-1

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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12/23/2024 5:08:58 PM

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

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Laboratory Job ID: 885-16944-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-16944-1
Project/Site: Salty Dog Pipeline

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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: Salty Dog Pipeline

Job ID: 885-16944-1

Job ID: 885-16944-1 Eurofins Albuquerque

Job Narrative
885-16944-1

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

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

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

Receipt
The samples were received on 12/13/2024 6:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-18126 recovered outside acceptance criteria, low biased, for 1,1,2,2-Tetrachloroethane and 2,2-Dichloropropane. Since the associated samples were non-detect for the analytes, the data is being reported.

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

HPLC/IC
Method 300_OF_28D_PREC: The following samples were diluted due to the nature of the sample matrix: MW-12 (885-16944-2), MW-13 (885-16944-3) and MW-18 (885-16944-5). Elevated reporting limits (RLs) are provided.

Method 300_OF_48H_PREC: The following samples were diluted due to the nature of the sample matrix: MW-10 (885-16944-1), MW-12 (885-16944-2), MW-13 (885-16944-3), MW-15 (885-16944-4), MW-18 (885-16944-5), MW-27 (885-16944-6), MW-28 (885-16944-7), MW-29 (885-16944-8) and MW-31 (885-16944-9). Elevated reporting limits (RLs) are provided.

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

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

General Chemistry
Method 2540C_SingleDry: The analysis volume selected for the following samples produced a base result greater than 200mg before calculation of the final result: MW-13 (885-16944-3) and MW-28 (885-16944-7). Reanalysis could not be performed due to holding time exceedance. Visual inspection b analyst shows no signs of trapped moisture, report as is The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, these data have been qualified.

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: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-10

Date Collected: 12/12/24 13:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 16:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 16:27	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 16:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 16:27	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 16:27	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 16:27	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 16:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 16:27	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 16:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 16:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 16:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 16:27	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 16:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 16:27	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 16:27	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 16:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 16:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 16:27	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 16:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 16:27	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 16:27	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 16:27	1
2-Butanone	ND		10		ug/L			12/19/24 16:27	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 16:27	1
2-Hexanone	ND		10		ug/L			12/19/24 16:27	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 16:27	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 16:27	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 16:27	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 16:27	1
Acetone	ND		10		ug/L			12/19/24 16:27	1
Benzene	ND		1.0		ug/L			12/19/24 16:27	1
Bromobenzene	ND		1.0		ug/L			12/19/24 16:27	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 16:27	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 16:27	1
Bromoform	ND		1.0		ug/L			12/19/24 16:27	1
Bromomethane	ND		3.0		ug/L			12/19/24 16:27	1
Carbon disulfide	ND		10		ug/L			12/19/24 16:27	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 16:27	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 16:27	1
Chloroethane	ND		2.0		ug/L			12/19/24 16:27	1
Chloroform	ND		1.0		ug/L			12/19/24 16:27	1
Chloromethane	ND		3.0		ug/L			12/19/24 16:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 16:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 16:27	1
Dibromomethane	ND		1.0		ug/L			12/19/24 16:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 16:27	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 16:27	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 16:27	1
Isopropylbenzene	ND		1.0		ug/L			12/19/24 16:27	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-10
Date Collected: 12/12/24 13:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 16:27	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 16:27	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 16:27	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 16:27	1
Naphthalene	ND		2.0		ug/L			12/19/24 16:27	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 16:27	1
Styrene	ND		1.0		ug/L			12/19/24 16:27	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 16:27	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 16:27	1
Toluene	ND		1.0		ug/L			12/19/24 16:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 16:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 16:27	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 16:27	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 16:27	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 16:27	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*12/19/24 16:27*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/19/24 16:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/19/24 16:27*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*12/19/24 16:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**3.5**		1.0		mg/L			12/13/24 16:47	10
Nitrate as N	ND		1.0		mg/L			12/13/24 16:47	10
Chloride	**2800**		100		mg/L			12/17/24 16:56	200
Nitrite as N	ND		1.0		mg/L			12/13/24 16:47	10
Fluoride	**2.1**		1.0		mg/L			12/13/24 16:47	10
Orthophosphate as P	ND		5.0		mg/L			12/13/24 16:47	10
Sulfate	**2100**		50		mg/L			12/13/24 17:01	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1200**		50		mg/L		12/18/24 09:29	12/20/24 12:47	50
Magnesium	**160**		5.0		mg/L		12/18/24 09:29	12/20/24 09:37	5
Potassium	**16**		1.0		mg/L		12/18/24 09:29	12/20/24 09:33	1
Sodium	**3100**		50		mg/L		12/18/24 09:29	12/20/24 12:47	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**7700**		250		mg/L			12/18/24 18:48	1
Total Alkalinity as CaCO3 (SM 2320B)	**180**		20		mg/L			12/16/24 15:24	1
Specific Conductance (SM 2510B)	**15000**		1000		umhos/cm			12/18/24 13:09	100
pH (SM 4500 H+ B)	**7.5**	**HF**	0.1		SU			12/16/24 15:24	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-12

Date Collected: 12/12/24 11:40
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 16:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 16:54	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 16:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 16:54	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 16:54	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 16:54	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 16:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 16:54	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 16:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 16:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 16:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 16:54	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 16:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 16:54	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 16:54	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 16:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 16:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 16:54	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 16:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 16:54	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 16:54	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 16:54	1
2-Butanone	ND		10		ug/L			12/19/24 16:54	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 16:54	1
2-Hexanone	ND		10		ug/L			12/19/24 16:54	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 16:54	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 16:54	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 16:54	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 16:54	1
Acetone	ND		10		ug/L			12/19/24 16:54	1
Benzene	ND		1.0		ug/L			12/19/24 16:54	1
Bromobenzene	ND		1.0		ug/L			12/19/24 16:54	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 16:54	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 16:54	1
Bromoform	ND		1.0		ug/L			12/19/24 16:54	1
Bromomethane	ND		3.0		ug/L			12/19/24 16:54	1
Carbon disulfide	ND		10		ug/L			12/19/24 16:54	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 16:54	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 16:54	1
Chloroethane	ND		2.0		ug/L			12/19/24 16:54	1
Chloroform	ND		1.0		ug/L			12/19/24 16:54	1
Chloromethane	ND		3.0		ug/L			12/19/24 16:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 16:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 16:54	1
Dibromomethane	ND		1.0		ug/L			12/19/24 16:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 16:54	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 16:54	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 16:54	1
Isopropylbenzene	ND		1.0		ug/L			12/19/24 16:54	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-12
Date Collected: 12/12/24 11:40
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 16:54	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 16:54	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 16:54	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 16:54	1
Naphthalene	ND		2.0		ug/L			12/19/24 16:54	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 16:54	1
Styrene	ND		1.0		ug/L			12/19/24 16:54	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 16:54	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 16:54	1
Toluene	ND		1.0		ug/L			12/19/24 16:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 16:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 16:54	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 16:54	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 16:54	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 16:54	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*12/19/24 16:54*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/19/24 16:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/19/24 16:54*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*12/19/24 16:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**2.2**		1.0		mg/L			12/13/24 17:15	10
Nitrate as N	ND		1.0		mg/L			12/13/24 17:15	10
Chloride	**1700**		50		mg/L			12/13/24 17:28	100
Nitrite as N	ND		1.0		mg/L			12/13/24 17:15	10
Fluoride	ND		1.0		mg/L			12/13/24 17:15	10
Orthophosphate as P	ND		5.0		mg/L			12/13/24 17:15	10
Sulfate	**1400**		50		mg/L			12/13/24 17:28	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**470**		5.0		mg/L		12/18/24 09:29	12/20/24 09:43	5
Magnesium	**79**		1.0		mg/L		12/18/24 09:29	12/20/24 09:42	1
Potassium	**25**		1.0		mg/L		12/18/24 09:29	12/20/24 09:42	1
Sodium	**1100**		50		mg/L		12/18/24 09:29	12/20/24 12:48	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4000**		500		mg/L			12/18/24 18:48	1
Total Alkalinity as CaCO3 (SM 2320B)	**180**		20		mg/L			12/16/24 15:46	1
Specific Conductance (SM 2510B)	**7300**		10		umhos/cm			12/16/24 15:46	1
pH (SM 4500 H+ B)	**7.4**	**HF**	0.1		SU			12/16/24 15:46	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-13
Date Collected: 12/12/24 12:20
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 17:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 17:22	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 17:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 17:22	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 17:22	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 17:22	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 17:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 17:22	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 17:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 17:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 17:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 17:22	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 17:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 17:22	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 17:22	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 17:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 17:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 17:22	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 17:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 17:22	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 17:22	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 17:22	1
2-Butanone	ND		10		ug/L			12/19/24 17:22	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 17:22	1
2-Hexanone	ND		10		ug/L			12/19/24 17:22	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 17:22	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 17:22	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 17:22	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 17:22	1
Acetone	ND		10		ug/L			12/19/24 17:22	1
Benzene	ND		1.0		ug/L			12/19/24 17:22	1
Bromobenzene	ND		1.0		ug/L			12/19/24 17:22	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 17:22	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 17:22	1
Bromoform	ND		1.0		ug/L			12/19/24 17:22	1
Bromomethane	ND		3.0		ug/L			12/19/24 17:22	1
Carbon disulfide	ND		10		ug/L			12/19/24 17:22	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 17:22	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 17:22	1
Chloroethane	ND		2.0		ug/L			12/19/24 17:22	1
Chloroform	ND		1.0		ug/L			12/19/24 17:22	1
Chloromethane	ND		3.0		ug/L			12/19/24 17:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 17:22	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 17:22	1
Dibromomethane	ND		1.0		ug/L			12/19/24 17:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 17:22	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 17:22	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 17:22	1
Isopropylbenzene	ND		1.0		ug/L			12/19/24 17:22	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-13
Date Collected: 12/12/24 12:20
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 17:22	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 17:22	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 17:22	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 17:22	1
Naphthalene	ND		2.0		ug/L			12/19/24 17:22	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 17:22	1
Styrene	ND		1.0		ug/L			12/19/24 17:22	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 17:22	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 17:22	1
Toluene	ND		1.0		ug/L			12/19/24 17:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 17:22	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 17:22	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 17:22	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 17:22	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 17:22	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*12/19/24 17:22*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/19/24 17:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*12/19/24 17:22*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*12/19/24 17:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		10		mg/L			12/13/24 17:42	100
Nitrate as N	ND		10		mg/L			12/13/24 17:42	100
Chloride	**5200**		500		mg/L			12/13/24 17:56	1000
Nitrite as N	ND		10		mg/L			12/13/24 17:42	100
Fluoride	ND		10		mg/L			12/13/24 17:42	100
Orthophosphate as P	ND		50		mg/L			12/13/24 17:42	100
Sulfate	**2000**		50		mg/L			12/13/24 17:42	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**850**		50		mg/L		12/18/24 09:29	12/20/24 12:50	50
Magnesium	**96**		1.0		mg/L		12/18/24 09:29	12/20/24 09:50	1
Potassium	**10**		1.0		mg/L		12/18/24 09:29	12/20/24 09:50	1
Sodium	**1800**		50		mg/L		12/18/24 09:29	12/20/24 12:50	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**13000**	**E**	250		mg/L			12/18/24 18:48	1
Total Alkalinity as CaCO3 (SM 2320B)	**170**		20		mg/L			12/16/24 15:57	1
Specific Conductance (SM 2510B)	**25000**		1000		umhos/cm			12/18/24 13:12	100
pH (SM 4500 H+ B)	**7.4**	**HF**	0.1		SU			12/16/24 15:57	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-15

Date Collected: 12/12/24 14:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 17:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 17:49	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 17:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 17:49	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 17:49	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 17:49	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 17:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 17:49	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 17:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 17:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 17:49	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 17:49	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 17:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 17:49	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 17:49	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 17:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 17:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 17:49	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 17:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 17:49	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 17:49	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 17:49	1
2-Butanone	ND		10		ug/L			12/19/24 17:49	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 17:49	1
2-Hexanone	ND		10		ug/L			12/19/24 17:49	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 17:49	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 17:49	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 17:49	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 17:49	1
Acetone	ND		10		ug/L			12/19/24 17:49	1
Benzene	ND		1.0		ug/L			12/19/24 17:49	1
Bromobenzene	ND		1.0		ug/L			12/19/24 17:49	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 17:49	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 17:49	1
Bromoform	ND		1.0		ug/L			12/19/24 17:49	1
Bromomethane	ND		3.0		ug/L			12/19/24 17:49	1
Carbon disulfide	ND		10		ug/L			12/19/24 17:49	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 17:49	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 17:49	1
Chloroethane	ND		2.0		ug/L			12/19/24 17:49	1
Chloroform	ND		1.0		ug/L			12/19/24 17:49	1
Chloromethane	ND		3.0		ug/L			12/19/24 17:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 17:49	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 17:49	1
Dibromomethane	ND		1.0		ug/L			12/19/24 17:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 17:49	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 17:49	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 17:49	1
Isopropylbenzene	ND		1.0		ug/L			12/19/24 17:49	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-15
Date Collected: 12/12/24 14:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 17:49	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 17:49	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 17:49	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 17:49	1
Naphthalene	ND		2.0		ug/L			12/19/24 17:49	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 17:49	1
Styrene	ND		1.0		ug/L			12/19/24 17:49	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 17:49	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 17:49	1
Toluene	ND		1.0		ug/L			12/19/24 17:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 17:49	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 17:49	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 17:49	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 17:49	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 17:49	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*12/19/24 17:49*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/19/24 17:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/19/24 17:49*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*12/19/24 17:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.3**		1.0		mg/L			12/13/24 18:37	10
Nitrate as N	ND		1.0		mg/L			12/13/24 18:37	10
Chloride	**640**		50		mg/L			12/13/24 18:50	100
Nitrite as N	ND		1.0		mg/L			12/13/24 18:37	10
Fluoride	**1.1**		1.0		mg/L			12/13/24 18:37	10
Orthophosphate as P	ND		5.0		mg/L			12/13/24 18:37	10
Sulfate	**2100**		50		mg/L			12/13/24 18:50	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**630**		10		mg/L		12/18/24 09:29	12/20/24 12:52	10
Magnesium	**75**		1.0		mg/L		12/18/24 09:29	12/20/24 09:53	1
Potassium	**9.1**		1.0		mg/L		12/18/24 09:29	12/20/24 09:53	1
Sodium	**780**		10		mg/L		12/18/24 09:29	12/20/24 12:52	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4200**		250		mg/L			12/18/24 18:48	1
Total Alkalinity as CaCO3 (SM 2320B)	**210**		20		mg/L			12/16/24 16:08	1
Specific Conductance (SM 2510B)	**5600**		10		umhos/cm			12/16/24 16:08	1
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1		SU			12/16/24 16:08	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-18

Date Collected: 12/12/24 11:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 18:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 18:16	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 18:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 18:16	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 18:16	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 18:16	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 18:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 18:16	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 18:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 18:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 18:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 18:16	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 18:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 18:16	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 18:16	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 18:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 18:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 18:16	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 18:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 18:16	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 18:16	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 18:16	1
2-Butanone	ND		10		ug/L			12/19/24 18:16	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 18:16	1
2-Hexanone	ND		10		ug/L			12/19/24 18:16	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 18:16	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 18:16	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 18:16	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 18:16	1
Acetone	ND		10		ug/L			12/19/24 18:16	1
Benzene	ND		1.0		ug/L			12/19/24 18:16	1
Bromobenzene	ND		1.0		ug/L			12/19/24 18:16	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 18:16	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 18:16	1
Bromoform	ND		1.0		ug/L			12/19/24 18:16	1
Bromomethane	ND		3.0		ug/L			12/19/24 18:16	1
Carbon disulfide	ND		10		ug/L			12/19/24 18:16	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 18:16	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 18:16	1
Chloroethane	ND		2.0		ug/L			12/19/24 18:16	1
Chloroform	ND		1.0		ug/L			12/19/24 18:16	1
Chloromethane	ND		3.0		ug/L			12/19/24 18:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 18:16	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 18:16	1
Dibromomethane	ND		1.0		ug/L			12/19/24 18:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 18:16	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 18:16	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 18:16	1
Isopropylbenzene	ND		1.0		ug/L			12/19/24 18:16	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-18

Date Collected: 12/12/24 11:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 18:16	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 18:16	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 18:16	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 18:16	1
Naphthalene	ND		2.0		ug/L			12/19/24 18:16	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 18:16	1
Styrene	ND		1.0		ug/L			12/19/24 18:16	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 18:16	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 18:16	1
Toluene	ND		1.0		ug/L			12/19/24 18:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 18:16	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 18:16	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 18:16	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 18:16	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 18:16	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*12/19/24 18:16*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/19/24 18:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/19/24 18:16*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*12/19/24 18:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		10		mg/L			12/13/24 19:04	100
Nitrate as N	ND		10		mg/L			12/13/24 19:04	100
Chloride	**5100**		500		mg/L			12/13/24 19:18	1000
Nitrite as N	ND		10		mg/L			12/13/24 19:04	100
Fluoride	ND		10		mg/L			12/13/24 19:04	100
Orthophosphate as P	ND		50		mg/L			12/13/24 19:04	100
Sulfate	**2400**		50		mg/L			12/13/24 19:04	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**800**		50		mg/L		12/18/24 09:29	12/20/24 12:54	50
Magnesium	**120**		5.0		mg/L		12/18/24 09:29	12/20/24 09:57	5
Potassium	**13**		1.0		mg/L		12/18/24 09:29	12/20/24 09:56	1
Sodium	**2000**		50		mg/L		12/18/24 09:29	12/20/24 12:54	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**14000**		500		mg/L			12/18/24 18:48	1
Total Alkalinity as CaCO3 (SM 2320B)	**210**		20		mg/L			12/16/24 16:20	1
Specific Conductance (SM 2510B)	**26000**		1000		umhos/cm			12/18/24 13:15	100
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1		SU			12/16/24 16:20	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-27
Date Collected: 12/12/24 13:30
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 18:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 18:43	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 18:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 18:43	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 18:43	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 18:43	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 18:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 18:43	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 18:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 18:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 18:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 18:43	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 18:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 18:43	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 18:43	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 18:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 18:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 18:43	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 18:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 18:43	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 18:43	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 18:43	1
2-Butanone	ND		10		ug/L			12/19/24 18:43	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 18:43	1
2-Hexanone	ND		10		ug/L			12/19/24 18:43	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 18:43	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 18:43	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 18:43	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 18:43	1
Acetone	ND		10		ug/L			12/19/24 18:43	1
Benzene	ND		1.0		ug/L			12/19/24 18:43	1
Bromobenzene	ND		1.0		ug/L			12/19/24 18:43	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 18:43	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 18:43	1
Bromoform	ND		1.0		ug/L			12/19/24 18:43	1
Bromomethane	ND		3.0		ug/L			12/19/24 18:43	1
Carbon disulfide	ND		10		ug/L			12/19/24 18:43	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 18:43	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 18:43	1
Chloroethane	ND		2.0		ug/L			12/19/24 18:43	1
Chloroform	ND		1.0		ug/L			12/19/24 18:43	1
Chloromethane	ND		3.0		ug/L			12/19/24 18:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 18:43	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 18:43	1
Dibromomethane	ND		1.0		ug/L			12/19/24 18:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 18:43	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 18:43	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 18:43	1
Isopropylbenzene	ND		1.0		ug/L			12/19/24 18:43	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-27

Date Collected: 12/12/24 13:30
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-6

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 18:43	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 18:43	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 18:43	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 18:43	1
Naphthalene	ND		2.0		ug/L			12/19/24 18:43	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 18:43	1
Styrene	ND		1.0		ug/L			12/19/24 18:43	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 18:43	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 18:43	1
Toluene	ND		1.0		ug/L			12/19/24 18:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 18:43	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 18:43	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 18:43	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 18:43	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 18:43	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*12/19/24 18:43*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*12/19/24 18:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/19/24 18:43*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*12/19/24 18:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.4**		1.0		mg/L			12/13/24 19:31	10
Nitrate as N	ND		1.0		mg/L			12/13/24 19:31	10
Chloride	**710**		50		mg/L			12/13/24 19:45	100
Nitrite as N	ND		1.0		mg/L			12/13/24 19:31	10
Fluoride	**1.1**		1.0		mg/L			12/13/24 19:31	10
Orthophosphate as P	ND		5.0		mg/L			12/13/24 19:31	10
Sulfate	**2100**		50		mg/L			12/13/24 19:45	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1300**		50		mg/L		12/18/24 09:29	12/20/24 12:56	50
Magnesium	**180**		5.0		mg/L		12/18/24 09:29	12/20/24 10:00	5
Potassium	**18**		1.0		mg/L		12/18/24 09:29	12/20/24 09:59	1
Sodium	**3300**		50		mg/L		12/18/24 09:29	12/20/24 12:56	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4800**		500		mg/L			12/18/24 18:48	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			12/16/24 16:32	1
Specific Conductance (SM 2510B)	**5900**		10		umhos/cm			12/16/24 16:32	1
pH (SM 4500 H+ B)	**7.4**	**HF**	0.1		SU			12/16/24 16:32	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-28

Date Collected: 12/12/24 10:30
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-7

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 19:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 19:11	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 19:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 19:11	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 19:11	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 19:11	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 19:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 19:11	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 19:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 19:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 19:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 19:11	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 19:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 19:11	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 19:11	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 19:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 19:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 19:11	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 19:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 19:11	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 19:11	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 19:11	1
2-Butanone	ND		10		ug/L			12/19/24 19:11	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 19:11	1
2-Hexanone	ND		10		ug/L			12/19/24 19:11	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 19:11	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 19:11	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 19:11	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 19:11	1
Acetone	ND		10		ug/L			12/19/24 19:11	1
Benzene	ND		1.0		ug/L			12/19/24 19:11	1
Bromobenzene	ND		1.0		ug/L			12/19/24 19:11	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 19:11	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 19:11	1
Bromoform	ND		1.0		ug/L			12/19/24 19:11	1
Bromomethane	ND		3.0		ug/L			12/19/24 19:11	1
Carbon disulfide	ND		10		ug/L			12/19/24 19:11	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 19:11	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 19:11	1
Chloroethane	ND		2.0		ug/L			12/19/24 19:11	1
Chloroform	ND		1.0		ug/L			12/19/24 19:11	1
Chloromethane	ND		3.0		ug/L			12/19/24 19:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 19:11	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 19:11	1
Dibromomethane	ND		1.0		ug/L			12/19/24 19:11	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 19:11	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 19:11	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 19:11	1
Isopropylbenzene	ND		1.0		ug/L			12/19/24 19:11	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-28

Date Collected: 12/12/24 10:30
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-7

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 19:11	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 19:11	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 19:11	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 19:11	1
Naphthalene	ND		2.0		ug/L			12/19/24 19:11	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 19:11	1
Styrene	ND		1.0		ug/L			12/19/24 19:11	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 19:11	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 19:11	1
Toluene	ND		1.0		ug/L			12/19/24 19:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 19:11	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 19:11	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 19:11	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 19:11	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 19:11	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*12/19/24 19:11*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/19/24 19:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/19/24 19:11*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*12/19/24 19:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**7.5**		1.0		mg/L			12/13/24 19:59	10
Nitrate as N	**2.7**		1.0		mg/L			12/13/24 19:59	10
Chloride	**5700**		250		mg/L			12/16/24 19:20	500
Nitrite as N	ND		1.0		mg/L			12/13/24 19:59	10
Fluoride	**2.7**		1.0		mg/L			12/13/24 19:59	10
Orthophosphate as P	ND		5.0		mg/L			12/13/24 19:59	10
Sulfate	**2200**		50		mg/L			12/13/24 20:12	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**570**		10		mg/L		12/18/24 09:29	12/20/24 13:04	10
Magnesium	**79**		1.0		mg/L		12/18/24 09:29	12/20/24 10:02	1
Potassium	**7.8**		1.0		mg/L		12/18/24 09:29	12/20/24 10:02	1
Sodium	**590**		10		mg/L		12/18/24 09:29	12/20/24 13:04	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**13000**	**E**	100		mg/L			12/18/24 18:48	1
Total Alkalinity as CaCO3 (SM 2320B)	**200**		20		mg/L			12/16/24 16:44	1
Specific Conductance (SM 2510B)	**25000**		1000		umhos/cm			12/18/24 13:18	100
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1		SU			12/16/24 16:44	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-29

Date Collected: 12/12/24 10:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-8

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 19:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 19:38	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 19:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 19:38	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 19:38	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 19:38	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 19:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 19:38	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 19:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 19:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 19:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 19:38	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 19:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 19:38	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 19:38	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 19:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 19:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 19:38	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 19:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 19:38	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 19:38	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 19:38	1
2-Butanone	ND		10		ug/L			12/19/24 19:38	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 19:38	1
2-Hexanone	ND		10		ug/L			12/19/24 19:38	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 19:38	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 19:38	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 19:38	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 19:38	1
Acetone	ND		10		ug/L			12/19/24 19:38	1
Benzene	ND		1.0		ug/L			12/19/24 19:38	1
Bromobenzene	ND		1.0		ug/L			12/19/24 19:38	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 19:38	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 19:38	1
Bromoform	ND		1.0		ug/L			12/19/24 19:38	1
Bromomethane	ND		3.0		ug/L			12/19/24 19:38	1
Carbon disulfide	ND		10		ug/L			12/19/24 19:38	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 19:38	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 19:38	1
Chloroethane	ND		2.0		ug/L			12/19/24 19:38	1
Chloroform	ND		1.0		ug/L			12/19/24 19:38	1
Chloromethane	ND		3.0		ug/L			12/19/24 19:38	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 19:38	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 19:38	1
Dibromomethane	ND		1.0		ug/L			12/19/24 19:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 19:38	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 19:38	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 19:38	1
Isopropylbenzene	ND		1.0		ug/L			12/19/24 19:38	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-29

Date Collected: 12/12/24 10:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-8

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 19:38	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 19:38	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 19:38	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 19:38	1
Naphthalene	ND		2.0		ug/L			12/19/24 19:38	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 19:38	1
Styrene	ND		1.0		ug/L			12/19/24 19:38	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 19:38	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 19:38	1
Toluene	ND		1.0		ug/L			12/19/24 19:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 19:38	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 19:38	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 19:38	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 19:38	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 19:38	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*12/19/24 19:38*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/19/24 19:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*12/19/24 19:38*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*12/19/24 19:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**3.9**		1.0		mg/L			12/13/24 21:21	10
Nitrate as N	ND		1.0		mg/L			12/13/24 21:21	10
Chloride	**2900**		100		mg/L			12/16/24 19:30	200
Nitrite as N	ND		1.0		mg/L			12/13/24 21:21	10
Fluoride	**2.0**		1.0		mg/L			12/13/24 21:21	10
Orthophosphate as P	ND		5.0		mg/L			12/13/24 21:21	10
Sulfate	**2500**		50		mg/L			12/13/24 21:34	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**600**		50		mg/L		12/18/24 09:29	12/20/24 13:06	50
Magnesium	**76**		1.0		mg/L		12/18/24 09:29	12/20/24 10:11	1
Potassium	**8.5**		1.0		mg/L		12/18/24 09:29	12/20/24 10:11	1
Sodium	**720**		50		mg/L		12/18/24 09:29	12/20/24 13:06	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**8600**		250		mg/L			12/18/24 18:48	1
Total Alkalinity as CaCO3 (SM 2320B)	**230**		20		mg/L			12/16/24 16:56	1
Specific Conductance (SM 2510B)	**16000**		1000		umhos/cm			12/18/24 13:21	100
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1		SU			12/16/24 16:56	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-31
Date Collected: 12/12/24 15:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 20:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 20:05	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 20:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 20:05	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 20:05	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 20:05	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 20:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 20:05	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 20:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 20:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 20:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 20:05	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 20:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 20:05	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 20:05	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 20:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 20:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 20:05	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 20:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 20:05	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 20:05	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 20:05	1
2-Butanone	ND		10		ug/L			12/19/24 20:05	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 20:05	1
2-Hexanone	ND		10		ug/L			12/19/24 20:05	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 20:05	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 20:05	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 20:05	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 20:05	1
Acetone	ND		10		ug/L			12/19/24 20:05	1
Benzene	ND		1.0		ug/L			12/19/24 20:05	1
Bromobenzene	ND		1.0		ug/L			12/19/24 20:05	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 20:05	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 20:05	1
Bromoform	ND		1.0		ug/L			12/19/24 20:05	1
Bromomethane	ND		3.0		ug/L			12/19/24 20:05	1
Carbon disulfide	ND		10		ug/L			12/19/24 20:05	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 20:05	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 20:05	1
Chloroethane	ND		2.0		ug/L			12/19/24 20:05	1
Chloroform	ND		1.0		ug/L			12/19/24 20:05	1
Chloromethane	ND		3.0		ug/L			12/19/24 20:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 20:05	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 20:05	1
Dibromomethane	ND		1.0		ug/L			12/19/24 20:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 20:05	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 20:05	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 20:05	1
Isopropylbenzene	ND		1.0		ug/L			12/19/24 20:05	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-31
Date Collected: 12/12/24 15:00
Date Received: 12/13/24 06:35

Lab Sample ID: 885-16944-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 20:05	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 20:05	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 20:05	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 20:05	1
Naphthalene	ND		2.0		ug/L			12/19/24 20:05	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 20:05	1
Styrene	ND		1.0		ug/L			12/19/24 20:05	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 20:05	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 20:05	1
Toluene	ND		1.0		ug/L			12/19/24 20:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 20:05	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 20:05	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 20:05	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 20:05	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 20:05	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*12/19/24 20:05*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/19/24 20:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/19/24 20:05*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*12/19/24 20:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.1**		1.0		mg/L			12/13/24 21:48	10
Nitrate as N	ND		1.0		mg/L			12/13/24 21:48	10
Chloride	**440**		50		mg/L			12/13/24 22:02	100
Nitrite as N	ND		1.0		mg/L			12/13/24 21:48	10
Fluoride	**1.1**		1.0		mg/L			12/13/24 21:48	10
Orthophosphate as P	ND		5.0		mg/L			12/13/24 21:48	10
Sulfate	**2100**		50		mg/L			12/13/24 22:02	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1100**		50		mg/L		12/18/24 09:29	12/20/24 13:08	50
Magnesium	**180**		5.0		mg/L		12/18/24 09:29	12/20/24 10:15	5
Potassium	**17**		1.0		mg/L		12/18/24 09:29	12/20/24 10:14	1
Sodium	**3300**		50		mg/L		12/18/24 09:29	12/20/24 13:08	50

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3800**		250		mg/L			12/18/24 18:48	1
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			12/16/24 17:09	1
Specific Conductance (SM 2510B)	**5000**		10		umhos/cm			12/16/24 17:09	1
pH (SM 4500 H+ B)	**7.5**	**HF**	0.1		SU			12/16/24 17:09	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-18126/5
Matrix: Water
Analysis Batch: 18126

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/19/24 10:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/19/24 10:31	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			12/19/24 10:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/19/24 10:31	1
1,1-Dichloroethane	ND		1.0		ug/L			12/19/24 10:31	1
1,1-Dichloroethene	ND		1.0		ug/L			12/19/24 10:31	1
1,1-Dichloropropene	ND		1.0		ug/L			12/19/24 10:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/24 10:31	1
1,2,3-Trichloropropane	ND		2.0		ug/L			12/19/24 10:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/24 10:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/19/24 10:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/19/24 10:31	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/19/24 10:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/19/24 10:31	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			12/19/24 10:31	1
1,2-Dichloropropane	ND		1.0		ug/L			12/19/24 10:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/19/24 10:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/19/24 10:31	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/24 10:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/19/24 10:31	1
1-Methylnaphthalene	ND		4.0		ug/L			12/19/24 10:31	1
2,2-Dichloropropane	ND		2.0		ug/L			12/19/24 10:31	1
2-Butanone	ND		10		ug/L			12/19/24 10:31	1
2-Chlorotoluene	ND		1.0		ug/L			12/19/24 10:31	1
2-Hexanone	ND		10		ug/L			12/19/24 10:31	1
2-Methylnaphthalene	ND		4.0		ug/L			12/19/24 10:31	1
4-Chlorotoluene	ND		1.0		ug/L			12/19/24 10:31	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/24 10:31	1
4-Methyl-2-pentanone	ND		10		ug/L			12/19/24 10:31	1
Acetone	ND		10		ug/L			12/19/24 10:31	1
Benzene	ND		1.0		ug/L			12/19/24 10:31	1
Bromobenzene	ND		1.0		ug/L			12/19/24 10:31	1
Bromodichloromethane	ND		1.0		ug/L			12/19/24 10:31	1
Dibromochloromethane	ND		1.0		ug/L			12/19/24 10:31	1
Bromoform	ND		1.0		ug/L			12/19/24 10:31	1
Bromomethane	ND		3.0		ug/L			12/19/24 10:31	1
Carbon disulfide	ND		10		ug/L			12/19/24 10:31	1
Carbon tetrachloride	ND		1.0		ug/L			12/19/24 10:31	1
Chlorobenzene	ND		1.0		ug/L			12/19/24 10:31	1
Chloroethane	ND		2.0		ug/L			12/19/24 10:31	1
Chloroform	ND		1.0		ug/L			12/19/24 10:31	1
Chloromethane	ND		3.0		ug/L			12/19/24 10:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 10:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 10:31	1
Dibromomethane	ND		1.0		ug/L			12/19/24 10:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/19/24 10:31	1
Ethylbenzene	ND		1.0		ug/L			12/19/24 10:31	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/24 10:31	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-18126/5
Matrix: Water
Analysis Batch: 18126

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			12/19/24 10:31	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			12/19/24 10:31	1
Methylene Chloride	ND		2.5		ug/L			12/19/24 10:31	1
n-Butylbenzene	ND		3.0		ug/L			12/19/24 10:31	1
N-Propylbenzene	ND		1.0		ug/L			12/19/24 10:31	1
Naphthalene	ND		2.0		ug/L			12/19/24 10:31	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/24 10:31	1
Styrene	ND		1.0		ug/L			12/19/24 10:31	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/24 10:31	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			12/19/24 10:31	1
Toluene	ND		1.0		ug/L			12/19/24 10:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/19/24 10:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/19/24 10:31	1
Trichloroethene (TCE)	ND		1.0		ug/L			12/19/24 10:31	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/24 10:31	1
Vinyl chloride	ND		1.0		ug/L			12/19/24 10:31	1
Xylenes, Total	ND		1.5		ug/L			12/19/24 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*12/19/24 10:31*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/19/24 10:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/19/24 10:31*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*12/19/24 10:31*	*1*

Lab Sample ID: LCS 885-18126/4
Matrix: Water
Analysis Batch: 18126

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	18.5		ug/L		92	70 - 130		
Benzene			20.1	20.5		ug/L		102	70 - 130		
Chlorobenzene			20.1	20.4		ug/L		102	70 - 130		
Toluene			20.2	20.0		ug/L		99	70 - 130		
Trichloroethene (TCE)			20.2	18.3		ug/L		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-17687/4
Matrix: Water
Analysis Batch: 17687

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			12/13/24 08:09	1
Chloride	ND		0.50		mg/L			12/13/24 08:09	1
Fluoride	ND		0.10		mg/L			12/13/24 08:09	1
Sulfate	ND		0.50		mg/L			12/13/24 08:09	1

Lab Sample ID: MB 885-17687/58
Matrix: Water
Analysis Batch: 17687

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			12/13/24 20:26	1
Chloride	ND		0.50		mg/L			12/13/24 20:26	1
Fluoride	ND		0.10		mg/L			12/13/24 20:26	1
Sulfate	ND		0.50		mg/L			12/13/24 20:26	1

Lab Sample ID: LCS 885-17687/5
Matrix: Water
Analysis Batch: 17687

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			2.50	2.46		mg/L		98	90 - 110		
Chloride			5.00	4.83		mg/L		97	90 - 110		
Fluoride			0.500	0.497		mg/L		99	90 - 110		
Sulfate			10.0	9.58		mg/L		96	90 - 110		

Lab Sample ID: LCS 885-17687/59
Matrix: Water
Analysis Batch: 17687

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			2.50	2.50		mg/L		100	90 - 110		
Chloride			5.00	4.93		mg/L		99	90 - 110		
Fluoride			0.500	0.516		mg/L		103	90 - 110		
Sulfate			10.0	9.78		mg/L		98	90 - 110		

Lab Sample ID: MRL 885-17687/3
Matrix: Water
Analysis Batch: 17687

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			0.100	0.111		mg/L		111	50 - 150		
Chloride			0.500	0.528		mg/L		106	50 - 150		
Fluoride			0.100	0.104		mg/L		104	50 - 150		
Sulfate			0.500	0.530		mg/L		106	50 - 150		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-17688/4
Matrix: Water
Analysis Batch: 17688

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10		mg/L			12/13/24 08:09	1
Nitrite as N	ND		0.10		mg/L			12/13/24 08:09	1
Orthophosphate as P	ND		0.50		mg/L			12/13/24 08:09	1

Lab Sample ID: MB 885-17688/58
Matrix: Water
Analysis Batch: 17688

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10		mg/L			12/13/24 20:26	1
Nitrite as N	ND		0.10		mg/L			12/13/24 20:26	1
Orthophosphate as P	ND		0.50		mg/L			12/13/24 20:26	1

Lab Sample ID: LCS 885-17688/5
Matrix: Water
Analysis Batch: 17688

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			2.50	2.55		mg/L		102	90 - 110		
Nitrite as N			1.00	0.956		mg/L		96	90 - 110		
Orthophosphate as P			5.00	4.94		mg/L		99	90 - 110		

Lab Sample ID: LCS 885-17688/59
Matrix: Water
Analysis Batch: 17688

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			2.50	2.60		mg/L		104	90 - 110		
Nitrite as N			1.00	0.965		mg/L		96	90 - 110		
Orthophosphate as P			5.00	5.08		mg/L		102	90 - 110		

Lab Sample ID: MRL 885-17688/3
Matrix: Water
Analysis Batch: 17688

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.104		mg/L		104	50 - 150		
Nitrite as N			0.100	0.106		mg/L		106	50 - 150		
Orthophosphate as P			0.500	0.565		mg/L		113	50 - 150		

Lab Sample ID: MB 885-17845/33
Matrix: Water
Analysis Batch: 17845

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			12/16/24 18:11	1
Chloride	ND		0.50		mg/L			12/16/24 18:11	1
Fluoride	ND		0.10		mg/L			12/16/24 18:11	1
Sulfate	ND		0.50		mg/L			12/16/24 18:11	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-17845/34
Matrix: Water
Analysis Batch: 17845

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	2.50	2.49		mg/L		99	90 - 110
Chloride	5.00	4.91		mg/L		98	90 - 110
Fluoride	0.500	0.510		mg/L		102	90 - 110
Sulfate	10.0	9.76		mg/L		98	90 - 110

Lab Sample ID: MRL 885-17845/32
Matrix: Water
Analysis Batch: 17845

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.100	0.0952	J	mg/L		95	50 - 150
Chloride	0.500	0.520		mg/L		104	50 - 150
Fluoride	0.100	0.102		mg/L		102	50 - 150
Sulfate	0.500	0.527		mg/L		105	50 - 150

Lab Sample ID: MB 885-17893/4
Matrix: Water
Analysis Batch: 17893

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			12/17/24 09:14	1
Chloride	ND		0.50		mg/L			12/17/24 09:14	1
Fluoride	ND		0.10		mg/L			12/17/24 09:14	1
Sulfate	ND		0.50		mg/L			12/17/24 09:14	1

Lab Sample ID: MB 885-17893/40
Matrix: Water
Analysis Batch: 17893

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			12/17/24 16:11	1
Chloride	ND		0.50		mg/L			12/17/24 16:11	1
Fluoride	ND		0.10		mg/L			12/17/24 16:11	1
Sulfate	ND		0.50		mg/L			12/17/24 16:11	1

Lab Sample ID: LCS 885-17893/41
Matrix: Water
Analysis Batch: 17893

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	2.50	2.46		mg/L		98	90 - 110
Chloride	5.00	4.83		mg/L		97	90 - 110
Fluoride	0.500	0.511		mg/L		102	90 - 110
Sulfate	10.0	9.59		mg/L		96	90 - 110

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-17893/5
Matrix: Water
Analysis Batch: 17893

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	2.50	2.43		mg/L		97	90 - 110
Chloride	5.00	4.77		mg/L		95	90 - 110
Fluoride	0.500	0.503		mg/L		101	90 - 110
Sulfate	10.0	9.51		mg/L		95	90 - 110

Lab Sample ID: MRL 885-17893/3
Matrix: Water
Analysis Batch: 17893

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.100	0.108		mg/L		108	50 - 150
Chloride	0.500	0.515		mg/L		103	50 - 150
Fluoride	0.100	0.0962	J	mg/L		96	50 - 150
Sulfate	0.500	0.518		mg/L		104	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MRL 885-18278/13
Matrix: Water
Analysis Batch: 18278

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.500	0.487	J	mg/L		97	50 - 150
Magnesium	0.500	0.497	J	mg/L		99	50 - 150
Potassium	0.500	0.478	J	mg/L		96	50 - 150
Sodium	0.500	0.482	J	mg/L		96	50 - 150

Lab Sample ID: 885-16944-1 MS
Matrix: Water
Analysis Batch: 18278

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 18007

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	16		50.0	73.9		mg/L		116	70 - 130

Lab Sample ID: 885-16944-1 MS
Matrix: Water
Analysis Batch: 18278

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 18007

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	160		50.0	202		mg/L		91	70 - 130

Lab Sample ID: 885-16944-1 MSD
Matrix: Water
Analysis Batch: 18278

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 18007

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	16		50.0	77.3		mg/L		123	70 - 130	5	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 885-16944-1 MSD — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 18278 — **Prep Batch: 18007**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	160		50.0	215		mg/L		116	70 - 130	6	20

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-18071/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18071

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			12/18/24 18:48	1

Lab Sample ID: LCS 885-18071/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18071

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1030		mg/L		103	80 - 120		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 885-18011/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18011

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	ND		20		mg/L			12/16/24 15:09	1

Lab Sample ID: LCS 885-18011/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18011

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			84.8	77.6		mg/L		92	90 - 110		

Lab Sample ID: MRL 885-18011/1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18011

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			21.2	23.5		mg/L		111	50 - 150		

Lab Sample ID: 885-16944-1 DU — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18011

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3	180			179		mg/L				0.5	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCS 885-18012/4
Matrix: Water
Analysis Batch: 18012

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	99.3	104		umhos/cm		104	85 - 115

Lab Sample ID: MRL 885-18012/3
Matrix: Water
Analysis Batch: 18012

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	9.83	ND		umhos/cm		99	50 - 150

Lab Sample ID: LCS 885-18113/4
Matrix: Water
Analysis Batch: 18113

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	99.3	101		umhos/cm		102	85 - 115

Lab Sample ID: MRL 885-18113/3
Matrix: Water
Analysis Batch: 18113

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	9.83	ND		umhos/cm		95	50 - 150

Method: SM 4500 H+ B - pH

Lab Sample ID: 885-16944-1 DU
Matrix: Water
Analysis Batch: 18013

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.5	HF	7.5		SU		0	20

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

GC/MS VOA

Analysis Batch: 18126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total/NA	Water	8260B	
885-16944-2	MW-12	Total/NA	Water	8260B	
885-16944-3	MW-13	Total/NA	Water	8260B	
885-16944-4	MW-15	Total/NA	Water	8260B	
885-16944-5	MW-18	Total/NA	Water	8260B	
885-16944-6	MW-27	Total/NA	Water	8260B	
885-16944-7	MW-28	Total/NA	Water	8260B	
885-16944-8	MW-29	Total/NA	Water	8260B	
885-16944-9	MW-31	Total/NA	Water	8260B	
MB 885-18126/5	Method Blank	Total/NA	Water	8260B	
LCS 885-18126/4	Lab Control Sample	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 17687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total/NA	Water	300.0	
885-16944-1	MW-10	Total/NA	Water	300.0	
885-16944-2	MW-12	Total/NA	Water	300.0	
885-16944-2	MW-12	Total/NA	Water	300.0	
885-16944-3	MW-13	Total/NA	Water	300.0	
885-16944-3	MW-13	Total/NA	Water	300.0	
885-16944-4	MW-15	Total/NA	Water	300.0	
885-16944-4	MW-15	Total/NA	Water	300.0	
885-16944-5	MW-18	Total/NA	Water	300.0	
885-16944-5	MW-18	Total/NA	Water	300.0	
885-16944-6	MW-27	Total/NA	Water	300.0	
885-16944-6	MW-27	Total/NA	Water	300.0	
885-16944-7	MW-28	Total/NA	Water	300.0	
885-16944-7	MW-28	Total/NA	Water	300.0	
885-16944-8	MW-29	Total/NA	Water	300.0	
885-16944-8	MW-29	Total/NA	Water	300.0	
885-16944-9	MW-31	Total/NA	Water	300.0	
885-16944-9	MW-31	Total/NA	Water	300.0	
MB 885-17687/4	Method Blank	Total/NA	Water	300.0	
MB 885-17687/58	Method Blank	Total/NA	Water	300.0	
LCS 885-17687/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-17687/59	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-17687/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 17688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total/NA	Water	300.0	
885-16944-2	MW-12	Total/NA	Water	300.0	
885-16944-3	MW-13	Total/NA	Water	300.0	
885-16944-4	MW-15	Total/NA	Water	300.0	
885-16944-5	MW-18	Total/NA	Water	300.0	
885-16944-6	MW-27	Total/NA	Water	300.0	
885-16944-7	MW-28	Total/NA	Water	300.0	
885-16944-8	MW-29	Total/NA	Water	300.0	
885-16944-9	MW-31	Total/NA	Water	300.0	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

HPLC/IC (Continued)

Analysis Batch: 17688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-17688/4	Method Blank	Total/NA	Water	300.0	
MB 885-17688/58	Method Blank	Total/NA	Water	300.0	
LCS 885-17688/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-17688/59	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-17688/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 17845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-7	MW-28	Total/NA	Water	300.0	
885-16944-8	MW-29	Total/NA	Water	300.0	
MB 885-17845/33	Method Blank	Total/NA	Water	300.0	
LCS 885-17845/34	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-17845/32	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 17893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total/NA	Water	300.0	
MB 885-17893/4	Method Blank	Total/NA	Water	300.0	
MB 885-17893/40	Method Blank	Total/NA	Water	300.0	
LCS 885-17893/41	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-17893/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-17893/3	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 18007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total Recoverable	Water	200.2	
885-16944-2	MW-12	Total Recoverable	Water	200.2	
885-16944-3	MW-13	Total Recoverable	Water	200.2	
885-16944-4	MW-15	Total Recoverable	Water	200.2	
885-16944-5	MW-18	Total Recoverable	Water	200.2	
885-16944-6	MW-27	Total Recoverable	Water	200.2	
885-16944-7	MW-28	Total Recoverable	Water	200.2	
885-16944-8	MW-29	Total Recoverable	Water	200.2	
885-16944-9	MW-31	Total Recoverable	Water	200.2	
885-16944-1 MS	MW-10	Total Recoverable	Water	200.2	
885-16944-1 MSD	MW-10	Total Recoverable	Water	200.2	

Analysis Batch: 18278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-1	MW-10	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-1	MW-10	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-2	MW-12	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-2	MW-12	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-2	MW-12	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-3	MW-13	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-3	MW-13	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-4	MW-15	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-4	MW-15	Total Recoverable	Water	200.7 Rev 4.4	18007

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Metals (Continued)

Analysis Batch: 18278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-5	MW-18	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-5	MW-18	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-5	MW-18	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-6	MW-27	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-6	MW-27	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-6	MW-27	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-7	MW-28	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-7	MW-28	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-8	MW-29	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-8	MW-29	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-9	MW-31	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-9	MW-31	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-9	MW-31	Total Recoverable	Water	200.7 Rev 4.4	18007
MRL 885-18278/13	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
885-16944-1 MS	MW-10	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-1 MS	MW-10	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-1 MSD	MW-10	Total Recoverable	Water	200.7 Rev 4.4	18007
885-16944-1 MSD	MW-10	Total Recoverable	Water	200.7 Rev 4.4	18007

General Chemistry

Analysis Batch: 18011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total/NA	Water	SM 2320B	
885-16944-2	MW-12	Total/NA	Water	SM 2320B	
885-16944-3	MW-13	Total/NA	Water	SM 2320B	
885-16944-4	MW-15	Total/NA	Water	SM 2320B	
885-16944-5	MW-18	Total/NA	Water	SM 2320B	
885-16944-6	MW-27	Total/NA	Water	SM 2320B	
885-16944-7	MW-28	Total/NA	Water	SM 2320B	
885-16944-8	MW-29	Total/NA	Water	SM 2320B	
885-16944-9	MW-31	Total/NA	Water	SM 2320B	
MB 885-18011/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 885-18011/3	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 885-18011/1	Lab Control Sample	Total/NA	Water	SM 2320B	
885-16944-1 DU	MW-10	Total/NA	Water	SM 2320B	

Analysis Batch: 18012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-2	MW-12	Total/NA	Water	SM 2510B	
885-16944-4	MW-15	Total/NA	Water	SM 2510B	
885-16944-6	MW-27	Total/NA	Water	SM 2510B	
885-16944-9	MW-31	Total/NA	Water	SM 2510B	
LCS 885-18012/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-18012/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 18013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total/NA	Water	SM 4500 H+ B	
885-16944-2	MW-12	Total/NA	Water	SM 4500 H+ B	
885-16944-3	MW-13	Total/NA	Water	SM 4500 H+ B	

QC Association Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

General Chemistry (Continued)

Analysis Batch: 18013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-4	MW-15	Total/NA	Water	SM 4500 H+ B	
885-16944-5	MW-18	Total/NA	Water	SM 4500 H+ B	
885-16944-6	MW-27	Total/NA	Water	SM 4500 H+ B	
885-16944-7	MW-28	Total/NA	Water	SM 4500 H+ B	
885-16944-8	MW-29	Total/NA	Water	SM 4500 H+ B	
885-16944-9	MW-31	Total/NA	Water	SM 4500 H+ B	
885-16944-1 DU	MW-10	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 18071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total/NA	Water	2540C	
885-16944-2	MW-12	Total/NA	Water	2540C	
885-16944-3	MW-13	Total/NA	Water	2540C	
885-16944-4	MW-15	Total/NA	Water	2540C	
885-16944-5	MW-18	Total/NA	Water	2540C	
885-16944-6	MW-27	Total/NA	Water	2540C	
885-16944-7	MW-28	Total/NA	Water	2540C	
885-16944-8	MW-29	Total/NA	Water	2540C	
885-16944-9	MW-31	Total/NA	Water	2540C	
MB 885-18071/1	Method Blank	Total/NA	Water	2540C	
LCS 885-18071/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 18113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16944-1	MW-10	Total/NA	Water	SM 2510B	
885-16944-3	MW-13	Total/NA	Water	SM 2510B	
885-16944-5	MW-18	Total/NA	Water	SM 2510B	
885-16944-7	MW-28	Total/NA	Water	SM 2510B	
885-16944-8	MW-29	Total/NA	Water	SM 2510B	
LCS 885-18113/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-18113/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-10

Lab Sample ID: 885-16944-1
Matrix: Water
Date Collected: 12/12/24 13:00
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18126	JR	EET ALB	12/19/24 16:27
Total/NA	Analysis	300.0		200	17893	RC	EET ALB	12/17/24 16:56
Total/NA	Analysis	300.0		10	17687	JT	EET ALB	12/13/24 16:47
Total/NA	Analysis	300.0		10	17688	JT	EET ALB	12/13/24 16:47
Total/NA	Analysis	300.0		100	17687	JT	EET ALB	12/13/24 17:01
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		1	18278	JR	EET ALB	12/20/24 09:33
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		5	18278	JR	EET ALB	12/20/24 09:37
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		50	18278	JR	EET ALB	12/20/24 12:47
Total/NA	Analysis	2540C		1	18071	KS	EET ALB	12/18/24 18:48
Total/NA	Analysis	SM 2320B		1	18011	DL	EET ALB	12/16/24 15:24
Total/NA	Analysis	SM 2510B		100	18113	KB	EET ALB	12/18/24 13:09
Total/NA	Analysis	SM 4500 H+ B		1	18013	DL	EET ALB	12/16/24 15:24

Client Sample ID: MW-12

Lab Sample ID: 885-16944-2
Matrix: Water
Date Collected: 12/12/24 11:40
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18126	JR	EET ALB	12/19/24 16:54
Total/NA	Analysis	300.0		10	17687	JT	EET ALB	12/13/24 17:15
Total/NA	Analysis	300.0		10	17688	JT	EET ALB	12/13/24 17:15
Total/NA	Analysis	300.0		100	17687	JT	EET ALB	12/13/24 17:28
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		1	18278	JR	EET ALB	12/20/24 09:42
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		5	18278	JR	EET ALB	12/20/24 09:43
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		50	18278	JR	EET ALB	12/20/24 12:48
Total/NA	Analysis	2540C		1	18071	KS	EET ALB	12/18/24 18:48
Total/NA	Analysis	SM 2320B		1	18011	DL	EET ALB	12/16/24 15:46
Total/NA	Analysis	SM 2510B		1	18012	DL	EET ALB	12/16/24 15:46
Total/NA	Analysis	SM 4500 H+ B		1	18013	DL	EET ALB	12/16/24 15:46

Client Sample ID: MW-13

Lab Sample ID: 885-16944-3
Matrix: Water
Date Collected: 12/12/24 12:20
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18126	JR	EET ALB	12/19/24 17:22
Total/NA	Analysis	300.0		100	17687	JT	EET ALB	12/13/24 17:42

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-13

Lab Sample ID: 885-16944-3

Date Collected: 12/12/24 12:20
Matrix: Water
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		100	17688	JT	EET ALB	12/13/24 17:42
Total/NA	Analysis	300.0		1000	17687	JT	EET ALB	12/13/24 17:56
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		1	18278	JR	EET ALB	12/20/24 09:50
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		50	18278	JR	EET ALB	12/20/24 12:50
Total/NA	Analysis	2540C		1	18071	KS	EET ALB	12/18/24 18:48
Total/NA	Analysis	SM 2320B		1	18011	DL	EET ALB	12/16/24 15:57
Total/NA	Analysis	SM 2510B		100	18113	KB	EET ALB	12/18/24 13:12
Total/NA	Analysis	SM 4500 H+ B		1	18013	DL	EET ALB	12/16/24 15:57

Client Sample ID: MW-15

Lab Sample ID: 885-16944-4

Date Collected: 12/12/24 14:00
Matrix: Water
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18126	JR	EET ALB	12/19/24 17:49
Total/NA	Analysis	300.0		10	17687	JT	EET ALB	12/13/24 18:37
Total/NA	Analysis	300.0		10	17688	JT	EET ALB	12/13/24 18:37
Total/NA	Analysis	300.0		100	17687	JT	EET ALB	12/13/24 18:50
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		1	18278	JR	EET ALB	12/20/24 09:53
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		10	18278	JR	EET ALB	12/20/24 12:52
Total/NA	Analysis	2540C		1	18071	KS	EET ALB	12/18/24 18:48
Total/NA	Analysis	SM 2320B		1	18011	DL	EET ALB	12/16/24 16:08
Total/NA	Analysis	SM 2510B		1	18012	DL	EET ALB	12/16/24 16:08
Total/NA	Analysis	SM 4500 H+ B		1	18013	DL	EET ALB	12/16/24 16:08

Client Sample ID: MW-18

Lab Sample ID: 885-16944-5

Date Collected: 12/12/24 11:00
Matrix: Water
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18126	JR	EET ALB	12/19/24 18:16
Total/NA	Analysis	300.0		100	17687	JT	EET ALB	12/13/24 19:04
Total/NA	Analysis	300.0		100	17688	JT	EET ALB	12/13/24 19:04
Total/NA	Analysis	300.0		1000	17687	JT	EET ALB	12/13/24 19:18
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		1	18278	JR	EET ALB	12/20/24 09:56
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		5	18278	JR	EET ALB	12/20/24 09:57

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-18

Lab Sample ID: 885-16944-5

Date Collected: 12/12/24 11:00
Matrix: Water
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		50	18278	JR	EET ALB	12/20/24 12:54
Total/NA	Analysis	2540C		1	18071	KS	EET ALB	12/18/24 18:48
Total/NA	Analysis	SM 2320B		1	18011	DL	EET ALB	12/16/24 16:20
Total/NA	Analysis	SM 2510B		100	18113	KB	EET ALB	12/18/24 13:15
Total/NA	Analysis	SM 4500 H+ B		1	18013	DL	EET ALB	12/16/24 16:20

Client Sample ID: MW-27

Lab Sample ID: 885-16944-6

Date Collected: 12/12/24 13:30
Matrix: Water
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18126	JR	EET ALB	12/19/24 18:43
Total/NA	Analysis	300.0		10	17687	JT	EET ALB	12/13/24 19:31
Total/NA	Analysis	300.0		10	17688	JT	EET ALB	12/13/24 19:31
Total/NA	Analysis	300.0		100	17687	JT	EET ALB	12/13/24 19:45
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		1	18278	JR	EET ALB	12/20/24 09:59
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		5	18278	JR	EET ALB	12/20/24 10:00
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		50	18278	JR	EET ALB	12/20/24 12:56
Total/NA	Analysis	2540C		1	18071	KS	EET ALB	12/18/24 18:48
Total/NA	Analysis	SM 2320B		1	18011	DL	EET ALB	12/16/24 16:32
Total/NA	Analysis	SM 2510B		1	18012	DL	EET ALB	12/16/24 16:32
Total/NA	Analysis	SM 4500 H+ B		1	18013	DL	EET ALB	12/16/24 16:32

Client Sample ID: MW-28

Lab Sample ID: 885-16944-7

Date Collected: 12/12/24 10:30
Matrix: Water
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18126	JR	EET ALB	12/19/24 19:11
Total/NA	Analysis	300.0		10	17687	JT	EET ALB	12/13/24 19:59
Total/NA	Analysis	300.0		10	17688	JT	EET ALB	12/13/24 19:59
Total/NA	Analysis	300.0		100	17687	JT	EET ALB	12/13/24 20:12
Total/NA	Analysis	300.0		500	17845	EH	EET ALB	12/16/24 19:20
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		1	18278	JR	EET ALB	12/20/24 10:02
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		10	18278	JR	EET ALB	12/20/24 13:04
Total/NA	Analysis	2540C		1	18071	KS	EET ALB	12/18/24 18:48
Total/NA	Analysis	SM 2320B		1	18011	DL	EET ALB	12/16/24 16:44

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Client Sample ID: MW-28

Lab Sample ID: 885-16944-7

Date Collected: 12/12/24 10:30
Matrix: Water
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2510B		100	18113	KB	EET ALB	12/18/24 13:18
Total/NA	Analysis	SM 4500 H+ B		1	18013	DL	EET ALB	12/16/24 16:44

Client Sample ID: MW-29

Lab Sample ID: 885-16944-8

Date Collected: 12/12/24 10:00
Matrix: Water
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18126	JR	EET ALB	12/19/24 19:38
Total/NA	Analysis	300.0		10	17687	JT	EET ALB	12/13/24 21:21
Total/NA	Analysis	300.0		10	17688	JT	EET ALB	12/13/24 21:21
Total/NA	Analysis	300.0		100	17687	JT	EET ALB	12/13/24 21:34
Total/NA	Analysis	300.0		200	17845	EH	EET ALB	12/16/24 19:30
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		1	18278	JR	EET ALB	12/20/24 10:11
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		50	18278	JR	EET ALB	12/20/24 13:06
Total/NA	Analysis	2540C		1	18071	KS	EET ALB	12/18/24 18:48
Total/NA	Analysis	SM 2320B		1	18011	DL	EET ALB	12/16/24 16:56
Total/NA	Analysis	SM 2510B		100	18113	KB	EET ALB	12/18/24 13:21
Total/NA	Analysis	SM 4500 H+ B		1	18013	DL	EET ALB	12/16/24 16:56

Client Sample ID: MW-31

Lab Sample ID: 885-16944-9

Date Collected: 12/12/24 15:00
Matrix: Water
Date Received: 12/13/24 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18126	JR	EET ALB	12/19/24 20:05
Total/NA	Analysis	300.0		10	17687	JT	EET ALB	12/13/24 21:48
Total/NA	Analysis	300.0		10	17688	JT	EET ALB	12/13/24 21:48
Total/NA	Analysis	300.0		100	17687	JT	EET ALB	12/13/24 22:02
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		1	18278	JR	EET ALB	12/20/24 10:14
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		5	18278	JR	EET ALB	12/20/24 10:15
Total Recoverable	Prep	200.2			18007	JE	EET ALB	12/18/24 09:29
Total Recoverable	Analysis	200.7 Rev 4.4		50	18278	JR	EET ALB	12/20/24 13:08
Total/NA	Analysis	2540C		1	18071	KS	EET ALB	12/18/24 18:48
Total/NA	Analysis	SM 2320B		1	18011	DL	EET ALB	12/16/24 17:09
Total/NA	Analysis	SM 2510B		1	18012	DL	EET ALB	12/16/24 17:09
Total/NA	Analysis	SM 4500 H+ B		1	18013	DL	EET ALB	12/16/24 17:09

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

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
200.7 Rev 4.4	200.2	Water	Calcium
200.7 Rev 4.4	200.2	Water	Magnesium
200.7 Rev 4.4	200.2	Water	Potassium
200.7 Rev 4.4	200.2	Water	Sodium
2540C		Water	Total Dissolved Solids
300.0		Water	Bromide
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate as N
300.0		Water	Nitrite as N
300.0		Water	Orthophosphate as P
300.0		Water	Sulfate
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Salty Dog Pipeline

Job ID: 885-16944-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date

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

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total
SM 2320B		Water	Total Alkalinity as CaCO3
SM 2510B		Water	Specific Conductance
SM 4500 H+ B		Water	pH

Oregon	NELAP	NM100001	02-25-25

Chain-of-Custody Record

Client: Hilcorp Farmington NM

Mailing Address: 382 Road 3100 Aztec, NM 87410

Billing Address: PO Box 61529 Houston, TX 77208

Phone #: 505-486-9543

email or Fax#: Brandon.Sinclair@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:

X Standard ☐ Rush_____

Project Name:

Salty Dog Pipeline

Project #:

Project Manager:

Mitch Killough

Sampler: Brandon Sinclair

On Ice: ☐ Yes ☐ No

# of Coolers: 1 4.09°

Cooler Temp(including CF): 0.3-0=0.3

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

80C 16944 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Cations/Anions/TDS/pH/Alkalinity (1) Liter Plastic	Volatiles 8260 40ml VOA HCl
12-12	1300	Water	MW-10	Various	Various		X	X
	1140	Water	MW-12	Various	Various		X	X
	1220	Water	MW-13	Various	Various		X	X
	1400	Water	MW-15	Various	Various		X	X
	1100	Water	MW-18	Various	Various		X	X
	1330	Water	MW-27	Various	Various		X	X
	1030	Water	MW-28	Various	Various		X	X
	1000	Water	MW-29	Various	Various		X	X
	1500	Water	MW-31	Various	Various		X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/12/24	1600				12/12/24	1600
12/12/24	1830			Courier	12/13/24	6:35

Preserve the Cation/Anions in the lab. Cations: Calcium, Magnesium, Potassium and Sodium, Anions:Bromide, Chloride, Sulfate, Fluoride, Nitrate+Nitrite and Phosphorous.

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: 885-16944-1

Login Number: 16944 **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.	True	
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.	False	Sample splitting requested to be done in lab
Residual Chlorine Checked.	True	

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

CONDITIONS

Action 442048

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 442048
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	8/12/2025
amaxwell	Submit a C-141N for all future monitoring and sampling events.	8/12/2025
amaxwell	Submit a separate report detailing the activities and sampling results of the completed delineation efforts since the installation of the additional monitoring wells. As of today, almost three (3) quarters of data should have been collected. Include if the site has been fully delineated as a result of the additional installed wells. If full delineation has not been met, what is the plan moving forward and the timeline by which full delineation is to occur. This is a separate report from the annual reporting due in 2026. Submit this report by September 29, 2025.	8/13/2025