ENSOLUM

April 15, 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: First Quarter 2025 – Remediation System Operation and Monitoring Report
Standard #1
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: NCS1735235018
Abatement Plan Number: AP-126

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *First Quarter 2025 - Remediation System Operation and Monitoring Report* summarizing remediation system performance during the first quarter of 2025 at the Standard #1 (Site, Figure 1). The duration of operation and monitoring activities included in this report is for the period from December 19, 2024 through March 29, 2025.

This report was prepared following the approval from the New Mexico Oil Conservation Division (NMOCD) regarding the dual-phase extraction (DPE) remediation system described in the *Stage 2 Abatement Plan* submitted by LT Environmental, Inc. in September 2019. Although no formal conditions of approval (COAs) have been provided in response to the aforementioned report, this report includes the following information based on COAs issued for similar Sites:

- A summary of remediation activities during the quarter;
- The system run time summary (90 percent (%) run time typically required);
- Total system flow and vacuum measurements;
- Individual well flow rates, photoionization detector (PID) measurements of volatile organic compounds (VOCs), vacuum measurements, and oxygen/carbon dioxide measurements via hand-held analyzers; and
- The petroleum mass removal and fluid product recovery from the remediation system.

Per correspondence with the NMOCD in April 2024, the quarterly remediation summary reports also include data and summaries from groundwater sampling events conducted at the Site during each reporting period. This report summarizes groundwater data gathered during the first quarter of 2025.

REMEDIATION SYSTEM DESCRIPTION

The remediation system at the Site includes a DPE system which uses a high vacuum rotary claw blower to apply vacuum to remediation wells (MW01, MW02, MW03, MW06, MW10, and MW15) connected to the blower via subsurface piping (Figure 2). The extracted air, petroleum vapors, and fluids enter a vapor/liquid separator or “knock out” tank. Air and petroleum vapors are passed

through the high vacuum extraction blower and discharged to the atmosphere via an exhaust stack. Separated liquid, which includes light non-aqueous phase liquids (LNAPL) and potentially impacted groundwater, is pumped to an aboveground storage tank for storage and off-site disposal. The system layout is depicted on Figure 3.

FIRST QUARTER 2025 OPERATION AND MAINTENANCE

Since startup on January 2, 2024, all Site DPE wells were operated in order to recover LNAPL, draw down the groundwater table, and induce air flow in impacted soil zones. Field visits were conducted bi-weekly throughout the first quarter of 2025. Field forms completed during operations and maintenance (O&M) visits are presented as Appendix A.

Between December 19, 2024, and March 29, 2025, the DPE system operated for 2,256 hours for a runtime efficiency of 94%. Appendix B presents photographs of the runtime meter for calculating the first quarter of 2025 runtime efficiency. Table 1 presents the DPE system operational hours and calculated percent runtime.

Vapor Recovery

Influent vapor samples from the DPE system are now being collected quarterly following the first year of operation. An influent vapor sample was collected on February 7, 2025. The sample was each collected into two 1-Liter Tedlar® bags and submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for analysis of VOCs following United States Environmental Protection Agency (EPA) EPA Method 8260B, total volatile petroleum hydrocarbons (TVPH, also referred to as total petroleum hydrocarbons- gasoline range organics (TPH-GRO)) following EPA Method 8015D, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. A summary of field measurements and analytical results are presented in Tables 2 and 3, respectively. The full laboratory analytical report is attached as Appendix C. Graphs 1 and 2 also present oxygen and carbon dioxide levels over time, respectively.

Vapor sample data and measured influent flow rates are used to estimate total mass recovered and total emissions generated by the DPE system (Table 4). Based on these estimates, 12,156 pounds (6.1 tons) of TVPH in the vapor phase have been removed by the system to date.

Liquid Recovery

Total liquid recovery volumes are measured using a totalizing flow metering device. Since the startup of the system on January 2, 2024, through March 29, 2025, approximately 134,175 gallons of liquid have been recovered. The impacted groundwater and recovered LNAPL are emulsified and homogenously commingled enough during extraction that product thickness is unmeasurable in the liquid recovery tank. Therefore, the estimated volume of LNAPL recovered is not measurable and not reported. Liquid recovery is summarized in Table 5.

GROUNDWATER MONITORING

Since October 2018, groundwater gauging and sampling activities have been conducted at the Site. Groundwater gauging and sampling at the Site was completed on March 20 and March 21, 2025, as part of the first quarter 2025 system activities.

Fluid Level Measurements

Prior to purging and sampling, static depth to groundwater and total depth of each monitoring well was measured using an oil/water interface probe. Depth to phase-separated hydrocarbons (PSH,

synonymous with LNAPL) was also recorded when present and a correction factor of 0.8 was applied to the calculated groundwater elevation to account for the depression of the water column caused by the presence of overlying PSH. The interface probe was decontaminated with Alconox® soap and rinsed with distilled water prior to each measurement to prevent cross contamination. Depth to groundwater, depth to PSH, and calculated groundwater elevations are summarized in Table 6. Potentiometric surface maps were drafted with groundwater elevations and PSH thickness measured during the first quarter 2025 quarterly monitoring event (Figure 4).

During the first quarter 2025 gauging event, a trace (less than 0.01 feet) of PSH was observed in monitoring wells MW01 through MW06, MW08, MW10, MW14, and MW15. Trace PSH was observed in MW08 for the first time since groundwater gauging and sampling activities began in October 2018. Hilcorp personnel will continue to monitor whether PSH continues to be present at MW08 to determine whether additional monitoring wells are needed to the west or whether the trace PSH observed during the first quarter of 2025 was anomalous as no constituent of concentrations above the New Mexico Water Quality Conservation Commission (NMWQCC) standards have previously been observed in samples collected from that location.

In general, the presence of groundwater at the Site is highly variable and no apparent continuous groundwater aquifer has been observed during drilling and/or groundwater monitoring activities. Groundwater flow direction and gradient is generally difficult to interpret, as dry wells often exist around the perimeter of the Site, as well as between wells containing groundwater. Based on historical measurements, groundwater flow direction is variable across the Site, but is generally to the west-northwest and west-southwest.

Groundwater Sampling Activities and Analytical Results

Groundwater samples were collected for laboratory analysis from monitoring wells containing sufficient water to sample and those that did not contain measurable PSH. Disposable polyvinyl chloride (PVC) bailers were used to collect groundwater samples due to limited water volume within several of the monitoring wells. Prior to collecting groundwater samples, Hilcorp purged a minimum of three casing volumes or until the well was bailed dry to ensure water from the adjacent formation, representative of actual aquifer conditions, was sampled. If a well was purged dry, the well was allowed to recharge before samples were collected. Water quality parameters including pH, electrical conductivity, and temperature were measured in each well using a multi-probe water quality field meter during purging.

Groundwater samples were collected into laboratory provided sample bottles and immediately placed on ice for preservation. Samples were submitted to Eurofins Environment Testing in Albuquerque, New Mexico for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX). Of the wells sampled, one or more BTEX constituent exceeded the NMWQCC standards in groundwater within monitoring wells MW09, MW12, MW16, MW18, and MW19. All four aforementioned wells also contained BTEX concentrations exceeding the NMWQCC standards during the fourth quarter 2024 monitoring event with the exception of MW09, which had contained insufficient water for sampling since the first quarter 2024 monitoring event. A summary of groundwater analytical results is presented in Table 7 and on Figure 5, with complete laboratory analytical reports attached as Appendix D.

DISCUSSIONS AND RECOMMENDATIONS

Several individual DPE well flow rates could not be collected during the first quarter 2025 due to scaling within the manifold and associated pitot tubes not allowing for accurate data collection using a magnehelic gauge. The scaling from the manifold and pitot tubes was removed but build

up returned, and the problem persisted. The scaling will continue to be removed on an as-needed basis throughout system operation.

Bi-weekly (every other week) to monthly O&M visits and bi-monthly (every other month) sampling events will be performed by Ensolum and/or Hilcorp personnel to ensure the DPE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following quarterly report.

Reporting

Updated remediation reports will be prepared and submitted to the NMOCD on a quarterly basis within 15 days following the end of the quarter and will contain the following:

- A summary of remediation and monitoring activities during the period;
- System run-time summary;
- Petroleum hydrocarbon mass removal and fluid recovery from the remediation system;
- DPE volume liquid removal; and
- Groundwater monitoring results, when applicable.

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

Sincerely,
Ensolum, LLC

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Attachments:

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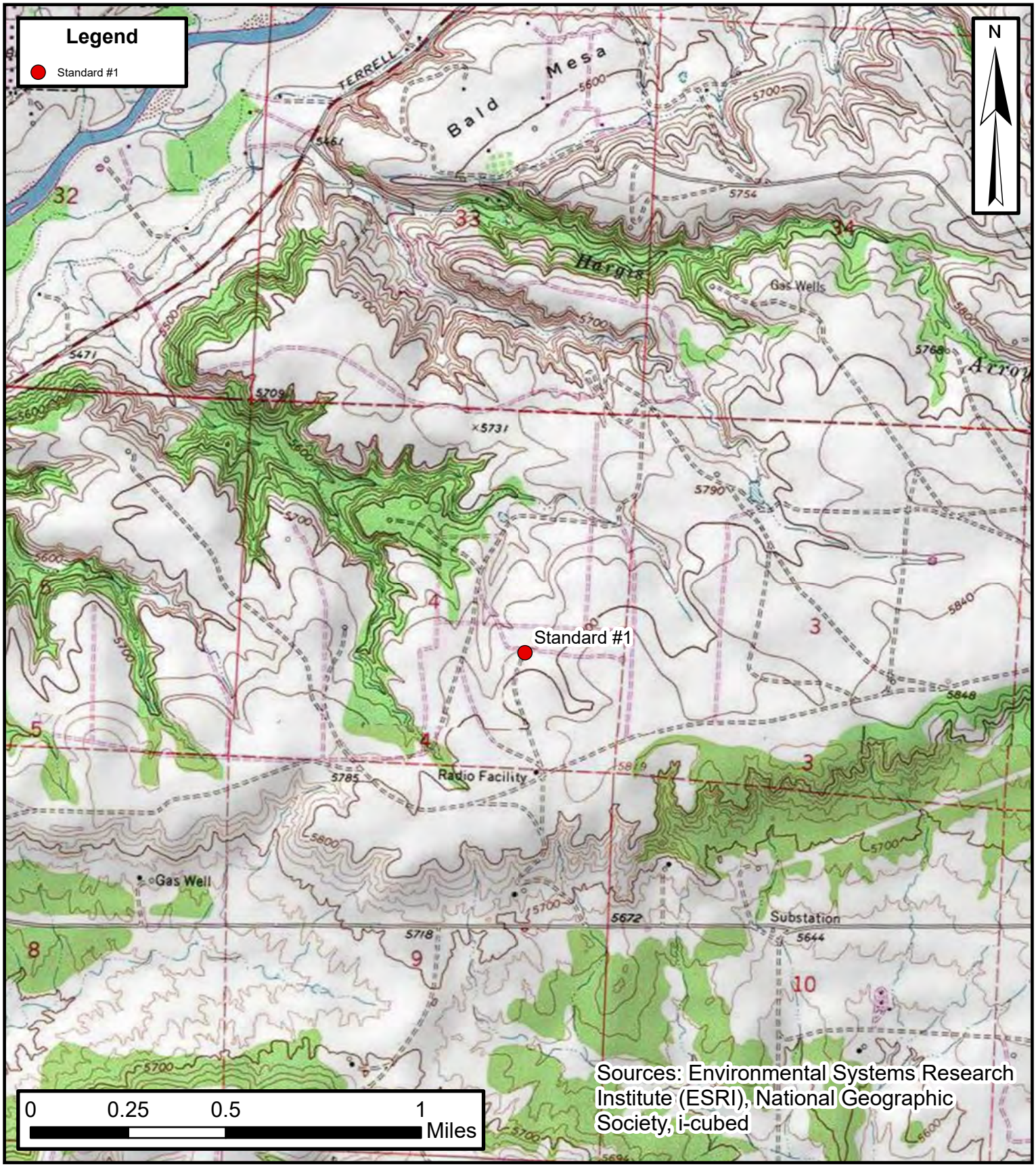
Figures



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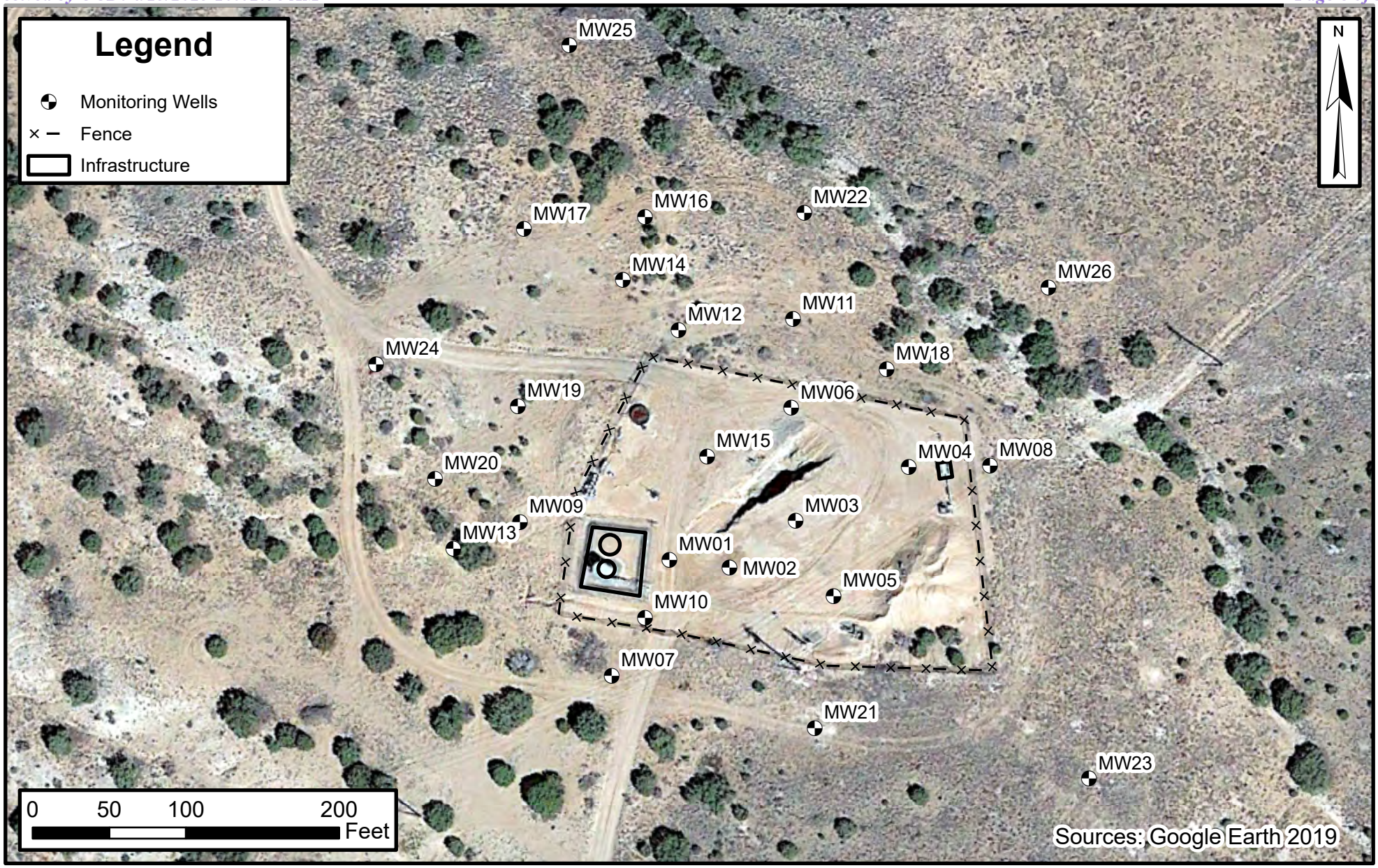
Site Location Map

Standard #1
Hilcorp Energy Company

36.75285, -108.099744
San Juan County, New Mexico

FIGURE
1



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Site Features

Standard #1
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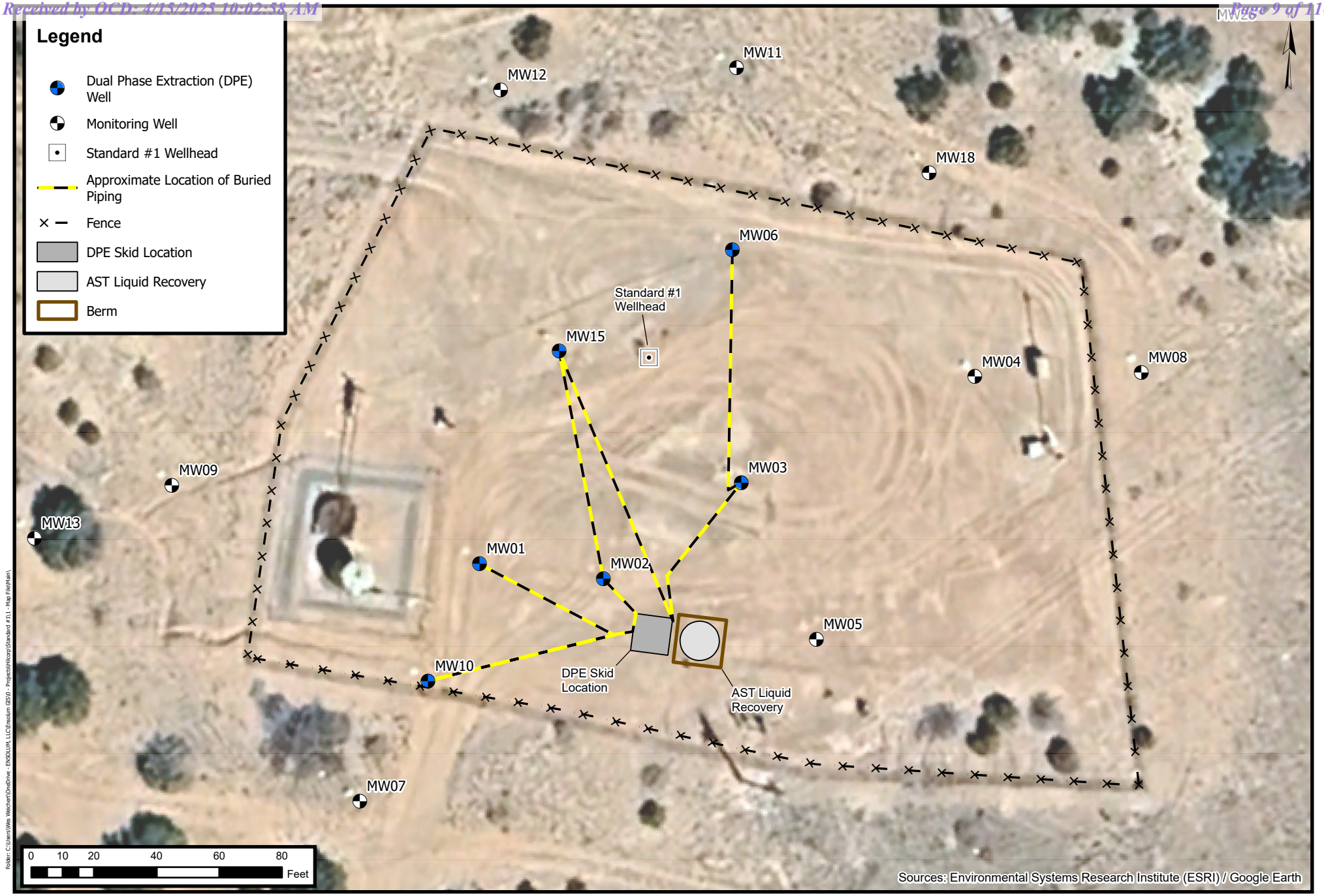
36.75285, -108.099744
San Juan County, New Mexico

FIGURE
2



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Dual Phase Extraction System Layout

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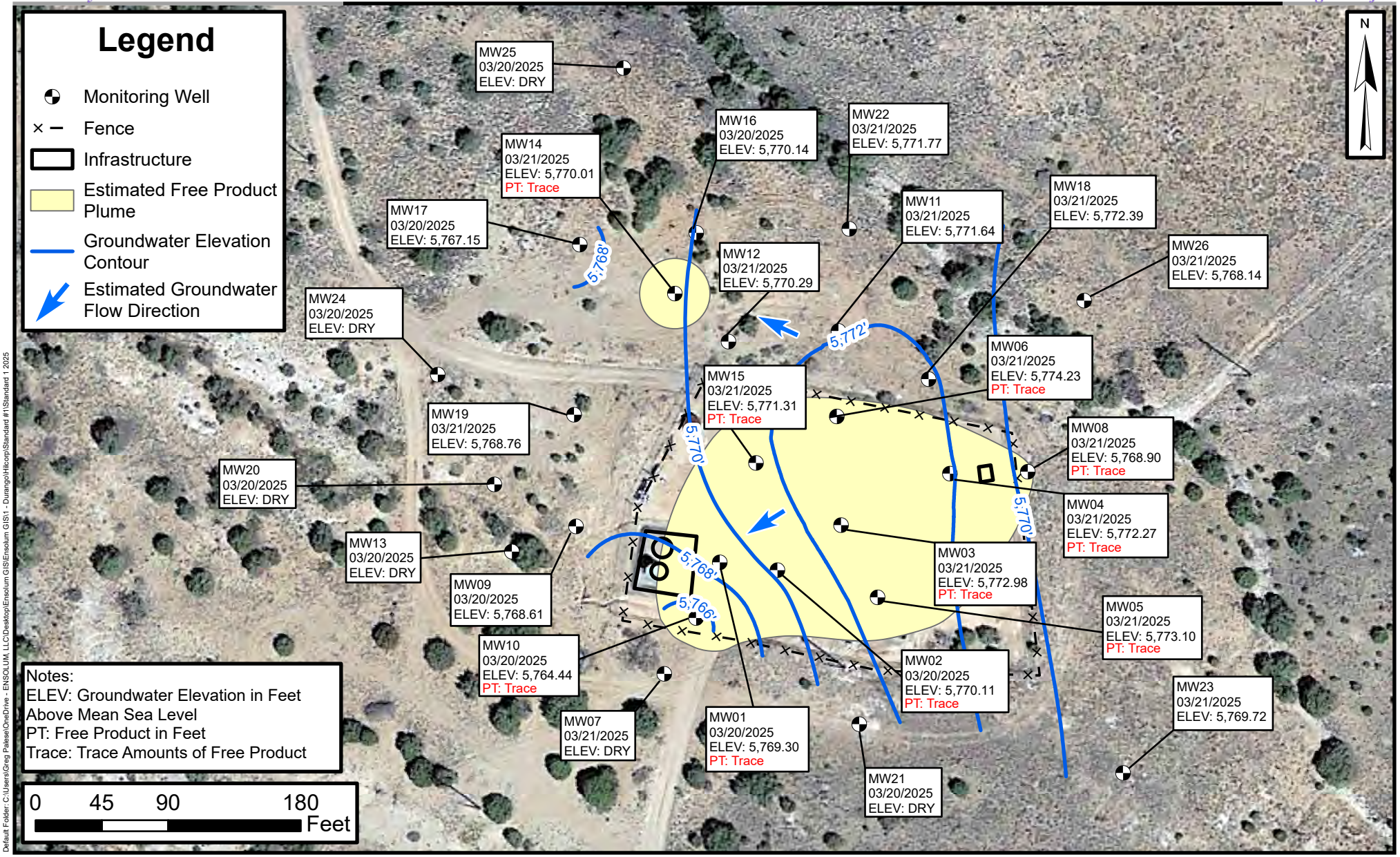
San Juan County, New Mexico

FIGURE

3



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Groundwater Elevation Map - Q1 2025

Standard #1
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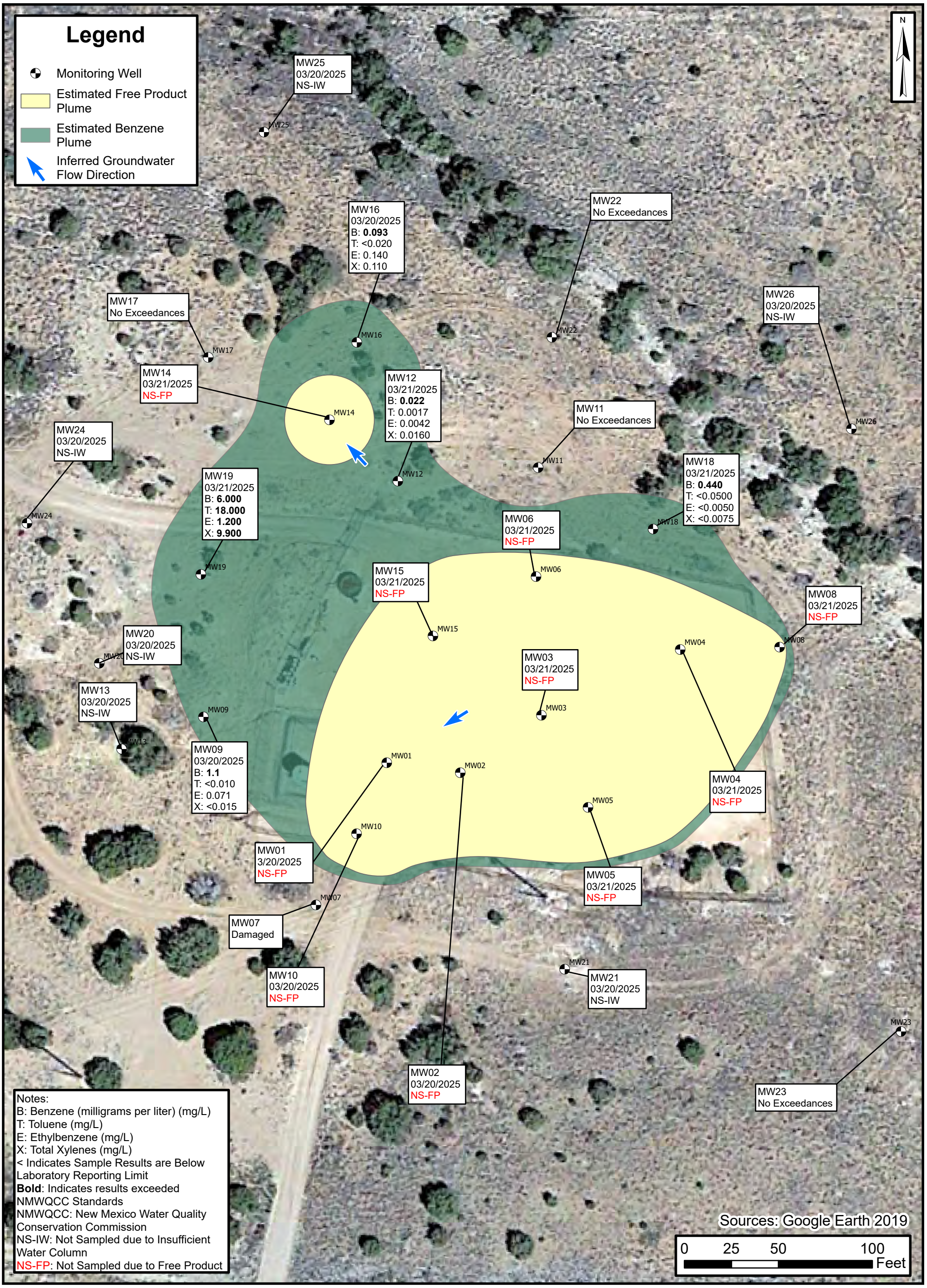
San Juan County, New Mexico

FIGURE
4

Sources: Google Earth



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Groundwater Analytical Results - Q1 2025

Standard #1

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FIGURE

5

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Tables & Graphs

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TABLE 1
DUAL PHASE EXTRACTION SYSTEM RUNTIME CALCULATIONS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Date/Time of Reading	System Hour Runtime	Runtime Between Events	Run Time (%)	Cumulative Run Time (%)	Notes
1/2/2024	4	4	START UP		
12/19/2024	7,999	216	100%	95%	
1/13/2025	8,599	600	100%	95%	
1/23/2025	8,838	239	100%	95%	
2/7/2025	9,202	363	101%	95%	
2/24/2025	9,606	405	99%	95%	
3/10/2025	9,940	334	99%	96%	
3/29/2025	10,255	315	69%	94%	
		1st Qtr 2025 Run Time Hours		2,256	
		1st Qtr 2025 Run Time %		94%	

Notes:

%: percent

Dashed line indicates quarter change

--: not applicable/not collected

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TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm)[1]	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
Influent, All Wells	1/2/2024	198	4.50	742	534	2.5	1.23	20.9	0.06
	1/3/2024	69	4.50	742	534	2.5	1.23	20.9	0.02
	1/4/2024	467	2.50	553	398	2.5	1.23	16.6	4.99
	1/5/2024	416	2.50	553	216	15.0	7.37	19.8	1.34
	1/11/2024	993	1.75	463	187	14.5	7.12	--	--
	1/18/2024	234	2.00	495	220	13.0	6.39	--	--
	1/24/2024	521	2.50	553	260	12.0	5.89	--	--
	2/1/2024	397	3.25	630	379	7.0	3.44	--	--
	2/8/2024	350	3.00	606	348	8.0	3.93	--	--
	2/15/2024	401	3.00	606	340	8.5	4.17	--	--
	2/21/2024	400	3.00	606	340	8.5	4.17	20.0	0.38
	3/1/2024	662	2.25	525	267	10.5	5.16	--	--
	3/7/2024	525	2.25	525	271	10.3	5.03	20.9	0.30
	3/14/2024	763	2.50	553	282	10.5	5.16	20.9	0.28
	3/21/2024	568	2.50	553	282	10.5	5.16	--	--
	4/1/2024	517	2.50	553	282	10.5	5.16	--	--
	4/5/2024	547	2.50	553	289	10.0	4.91	20.0	0.16
	4/19/2024	364	2.25	525	292	8.7	4.27	20.6	0.14
	5/7/2024	337	2.25	525	247	12.0	5.89	20.7	0.15
	5/21/2024	284	2.25	525	240	12.5	6.14	20.9	0.11
	6/6/2024	247	2.25	525	233	13.0	6.39	20.7	0.13
	6/27/2024	369	2.25	525	226	13.5	6.63	20.7	0.13
	7/17/2024	148	3.25	630	305	11.5	5.65	20.8	0.12
	7/29/2024	190	3.00	606	249	14.3	7.00	20.9	0.09
	8/12/2024	119	2.75	580	231	14.8	7.24	20.9	0.10
	8/23/2024	122	1.75	463	181	15.0	7.37	20.9	0.13
	9/5/2024	156	1.75	463	169	16.0	7.86	20.9	0.11
	9/23/2024	121	1.50	428	151	16.5	8.10	20.9	0.13
	10/10/2024	101	1.50	428	148	16.8	8.23	20.5	0.13
	10/24/2024	114	1.00	350	121	16.8	8.23	20.9	0.14
	11/11/2024	74	1.50	428	168	15.0	7.37	20.9	0.14
	11/20/2024	79	1.50	428	162	15.5	7.61	20.9	0.08
	12/10/2024	72	2.75	580	296	10.5	5.16	20.9	0.12
	12/19/2024	73	2.50	553	282	10.5	5.16	--	--
	1/13/2025	108	2.50	553	286	10.2	5.01	20.9	0.12
	1/23/2025	92	2.50	553	283	10.4	5.11	20.9	0.06
	2/7/2025	32	1.00	350	109	18.0	8.84	--	--
	2/24/2025	59	1.00	350	107	18.3	8.96	--	--
	3/10/2025	49	2.00	495	216	13.3	6.51	--	--
	3/29/2025	35	0.75	303	85	19.3	9.45	20.7	0.20
MW01	1/2/2024	102	--	--	44.0	1.0	0.49	20.9	0.08
	1/3/2024	87	--	--	14.0	1.0	0.49	20.9	0.04
	1/4/2024	--	--	--	93.0	13.5	6.63	--	--
	1/5/2024	403	--	--	53.0	13.0	6.39	20.7	0.58
	1/11/2024	135	0.95	85.2	42.3	11.0	5.40	--	--
	1/18/2024	655	0.08	24.7	11.6	12.0	5.89	--	--
	1/24/2024	1394	0.55	64.8	32.2	11.0	5.40	20.2	0.52
	2/1/2024	468	0.54	64.2	41.2	5.5	2.70	--	--
	2/8/2024	436	--	--	--	7.0	3.44	19.8	0.78
	2/15/2024	413	0.20	39.1	23.5	7.0	3.44	19.8	0.44
	2/21/2024	543	0.20	39.1	23.5	7.0	3.44	20.0	0.40
	3/1/2024	353	0.28	46.3	25.4	9.0	4.42	20.5	0.44
	3/7/2024	431	0.51	62.4	34.3	9.0	4.42	20.9	0.36
	3/14/2024	409	0.19	38.1	20.9	9.0	4.42	20.9	0.38
	3/21/2024	398	0.49	61.2	33.6	9.0	4.42	20.9	0.36
	4/1/2024	523	0.61	68.3	38.4	8.5	4.17	--	--
	4/5/2024	496	0.42	56.7	31.8	8.5	4.17	19.8	0.28
	4/19/2024	450	0.31	48.7	27.7	8.3	4.05	19.4	0.32
	5/7/2024	611	0.64	69.9	43.2	6.4	3.14	19.5	0.34
	5/21/2024	645	0.77	76.7	42.6	8.8	4.30	19.5	0.31
	6/6/2024	387	1.83	118.3	68.8	7.8	3.81	19.8	0.30
	6/27/2024	604	--	--	--	8.0	3.93	19.5	0.28
	7/17/2024	276	0.37	53.2	30.9	7.8	3.81	19.7	0.25
	7/29/2024	286	2.07	125.8	72.3	8.0	3.93	20.2	0.23
	8/12/2024	274	1.83	118.3	68.0	8.0	3.93	20.2	0.23
	8/23/2024	141	1.27	98.5	56.7	8.0	3.93	20.5	0.16
	9/6/2024	206	2.93	149.7	85.1	8.3	4.05	20.3	0.18
	9/23/2024	159	1.31	100.1	57.5	8.0	3.93	20.6	0.19
	10/10/2024	187	0.51	62.4	40.4	5.3	2.58	19.7	0.23

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TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm)[1]	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
MW01	10/24/2024	150	0.72	74.2	46.1	6.3	3.07	20.5	0.15
	11/11/2024	201	0.62	68.8	32.4	12.0	5.89	20.9	0.25
	11/20/2024	163	0.67	71.6	33.6	12.0	5.89	20.9	0.14
	12/10/2024	197	0.66	71.0	33.4	12.0	5.89	20.9	0.19
	12/19/2024	38	Gauge Broken	--	--	7.5	3.68	--	--
	1/13/2025	29	Gauge Broken	--	--	7.0	3.44	20.2	0.48
	1/23/2025	44	Gauge Broken	--	--	5.5	2.70	20.9	0.00
	2/7/2025	--	Gauge Broken	--	--	13.5	6.63	--	--
	2/24/2025	--	Gauge Broken	--	--	14.0	6.88	--	--
	3/10/2025	--	Gauge Broken	--	--	9.0	4.42	--	--
	3/29/2025	Line Clogged							
MW02	1/2/2024	102	--	--	20.0	1.0	0.49	20.9	0.02
	1/3/2024	240	--	--	25.0	1.0	0.49	20.9	0.06
	1/4/2024	--	--	--	86.0	13.5	6.63	--	--
	1/5/2024	243	--	--	84.0	12.5	6.14	20.6	0.82
	1/11/2024	392	0.80	78.2	38.8	11.0	5.40	--	--
	1/18/2024	335	1.05	89.6	42.1	12.0	5.89	--	--
	1/24/2024	710	0.75	75.7	38.6	10.5	5.16	20.7	0.52
	2/1/2024	179	0.15	33.9	21.2	6.0	2.95	--	--
	2/8/2024	380	--	--	--	7.3	3.56	20.7	0.54
	2/15/2024	232	0.21	40.1	23.6	7.5	3.68	20.3	0.32
	2/21/2024	175	0.15	33.9	20.4	7.0	3.44	20.6	0.18
	3/1/2024	315	0.56	65.4	35.9	9.0	4.42	20.9	0.36
	3/7/2024	396	0.64	69.9	38.4	9.0	4.42	20.9	0.24
	3/14/2024	412	0.64	69.9	38.4	9.0	4.42	20.9	0.20
	3/21/2024	408	0.61	68.3	37.5	9.0	4.42	20.9	0.18
	4/1/2024	257	0.13	31.5	17.3	9.0	4.42	--	--
	4/5/2024	294	0.55	64.8	35.6	9.0	4.42	20.1	0.16
	4/19/2024	249	0.37	53.2	29.9	8.5	4.17	20.2	0.17
	5/7/2024	193	0.25	43.7	24.6	8.5	4.17	20.3	0.14
	5/21/2024	193	0.54	64.2	36.1	8.5	4.17	20.4	0.16
	6/6/2024	173	0.44	58.0	31.1	9.5	4.67	20.3	0.19
	6/27/2024	321	0.40	55.3	28.9	10.0	4.91	20.1	0.17
	7/17/2024	118	0.13	31.5	16.3	10.3	5.03	20.9	0.15
	7/29/2024	88	0.46	59.3	30.6	10.3	5.03	20.9	0.10
	8/12/2024	110	0.16	35.0	18.0	10.3	5.03	20.9	0.13
	8/23/2024	47	0.08	24.7	12.3	11.0	5.40	20.9	0.06
	9/6/2024	128	Gauge Broken	--	--	11.3	5.53	20.8	0.07
	9/23/2024	78	0.11	29.0	14.8	10.5	5.16	20.7	0.20
	10/10/2024	79	Gauge Broken	--	--	10.8	5.28	20.6	0.16
	10/24/2024	82	Gauge Broken	--	--	15.3	7.49	20.6	0.12
	11/11/2024	66	Gauge Broken	--	--	13.0	6.39	20.9	0.18
	11/20/2024	83	0.38	53.9	23.9	13.0	6.39	20.9	0.10
	12/10/2024	84	0.12	30.3	13.4	13.0	6.39	20.9	0.16
	12/19/2024	74	Gauge Broken	--	--	8.0	3.93	--	--
	1/13/2025	63	Gauge Broken	--	--	8.5	4.17	20.9	0.12
	1/23/2025	61	0.43	57.3	32.2	8.5	4.17	20.9	0.10
	2/7/2025	--	Gauge Broken	--	--	13.5	6.63	--	--
	2/24/2025	--	Gauge Broken	--	--	15.8	7.74	--	--
	3/10/2025	--	0.41	56.0	32.2	8.0	3.93	--	--
	3/29/2025	29	Gauge Broken	--	--	17.5	8.60	20.2	0.20
MW03	1/2/2024	139	--	--	45.0	1.0	0.49	20.9	0.14
	1/3/2024	240	--	--	25.0	1.0	0.49	20.9	0.06
	1/4/2024	--	--	--	37.0	13.0	6.39	--	--
	1/5/2024	332	--	--	18.0	12.0	5.89	18.9	1.56
	1/11/2024	187	1.30	99.7	44.3	13.0	6.39	--	--
	1/18/2024	452	1.11	92.1	36.1	15.0	7.37	--	--
	1/24/2024	1775	0.62	68.8	30.6	13.0	6.39	19.2	1.26
	2/1/2024	644	0.24	42.8	24.1	8.5	4.17	--	--
	2/8/2024	325	--	--	--	9.5	4.67	19.0	1.30
	2/15/2024	235	0.23	41.9	21.9	10.0	4.91	20.3	0.28
	2/21/2024	498	--	--	--	--	--	19.1	0.72
	3/1/2024	404	0.13	31.5	14.8	12.0	5.89	19.7	1.04
	3/7/2024	721	0.41	56.0	27.1	11.5	5.65	20.2	0.66
	3/14/2024	687	0.35	51.7	25.0	11.5	5.65	20.4	0.44
	3/21/2024	627	0.36	52.5	25.4	11.5	5.65	20.3	0.45
	4/1/2024	433	0.45	58.6	28.3	11.5	5.65	--	--
	4/5/2024	511	0.71	73.7	36.6	11.0	5.40	19.3	0.39
	4/19/2024	433	0.23	41.9	20.8	11.0	5.40	19.4	0.38
	5/7/2024	671	0.65	70.5	39.6	8.5	4.17	19.9	0.34
	5/21/2024	444	0.28	46.3	25.1	9.3	4.54	19.6	0.35

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TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm)[1]	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
	6/6/2024	438	0.43	57.3	31.1	9.3	4.54	19.4	0.36
	6/27/2024	420	0.18	37.1	19.4	10.0	4.91	19.5	0.38
	7/17/2024	439	0.54	64.2	34.8	9.3	4.54	19.6	0.32
	7/29/2024	398	0.85	80.6	43.7	9.3	4.54	20.2	0.26
	8/12/2024	413	0.66	71.0	38.5	9.3	4.54	20.1	0.28
	8/23/2024	364	2.33	133.5	75.0	8.5	4.17	19.7	0.40
	9/6/2024	457	0.12	30.3	16.8	8.8	4.30	20.2	0.30
	9/23/2024	381	0.83	79.7	43.7	9.0	4.42	19.8	0.39
	10/10/2024	392	0.22	41.0	21.4	10.0	4.91	20.1	0.30
	10/24/2024	363	0.14	32.7	15.6	11.8	5.77	20.0	0.30
	11/11/2024	117	0.17	36.0	15.3	13.8	6.75	20.9	0.26
	11/20/2024	157	0.04	17.5	7.4	13.8	6.75	20.9	0.18
	12/10/2024	123	0.11	29.0	12.5	13.5	6.63	20.9	0.14
	12/19/2024	25	0.07	23.1	13.6	7.5	3.68	--	--
	1/13/2025	21	0.07	23.1	13.3	8.0	3.93	20.9	0.00
	1/23/2025	34	0.10	27.6	15.5	8.5	4.17	20.9	0.00
	2/7/2025	--	0.10	27.6	11.2	14.5	7.12	--	--
	2/24/2025	--	0.08	24.7	9.4	15.5	7.61	--	--
	3/10/2025	--	0.13	31.5	17.3	9.0	4.42	--	--
	3/29/2025	126	0.08	24.7	8.1	17.5	8.60	20.5	0.20
MW06	1/2/2024	153	--	--	48.0	1.0	0.49	20.9	0.14
	1/3/2024	161	--	--	23.0	1.0	0.49	20.9	0.04
	1/4/2024	--	--	--	48.0	12.0	5.89	--	--
	1/5/2024	295	--	--	26.0	11.5	5.65	19.1	1.41
	1/11/2024	323	1.18	95.0	47.1	11.0	5.40	--	--
	1/18/2024	35	1.12	92.5	42.3	12.5	6.14	--	--
	1/24/2024	439	0.40	55.3	28.2	10.5	5.16	20.9	0.56
	2/1/2024	245	0.17	36.0	23.1	5.5	2.70	--	--
	2/8/2024	220	--	--	--	7.0	3.44	20.9	0.42
	2/15/2024	120	0.15	33.9	20.4	7.0	3.44	20.9	0.12
	2/21/2024	319	0.22	41.0	24.4	7.2	3.54	20.6	0.20
	3/1/2024	121	0.04	17.5	9.6	9.0	4.42	20.9	0.24
	3/7/2024	314	0.65	70.5	38.7	9.0	4.42	20.9	0.16
	3/14/2024	402	0.30	47.9	26.3	9.0	4.42	20.9	0.20
	3/21/2024	372	0.27	45.4	25.5	8.5	4.17	20.9	0.15
	4/1/2024	134	0.04	17.5	9.6	9.0	4.42	--	--
	4/5/2024	202	0.82	79.2	44.5	8.5	4.17	20.2	0.10
	4/19/2024	154	0.34	51.0	28.7	8.5	4.17	20.2	0.12
	5/7/2024	145	0.18	37.1	20.4	9.0	4.42	20.8	0.12
	5/21/2024	139	0.46	59.3	32.9	8.8	4.30	20.3	0.11
	6/6/2024	152	0.84	80.1	45.6	8.3	4.05	20.3	0.12
	6/27/2024	129	--	--	--	8.0	3.93	20.3	0.12
	7/17/2024	51	0.01	8.7	5.0	8.0	3.93	20.4	0.10
	7/29/2024	54	0.63	69.4	39.9	8.0	3.93	20.7	0.10
	8/8/2024	56	0.43	57.3	33.0	8.0	3.93	20.6	0.10
	8/23/2024	34	0.12	30.3	17.6	7.8	3.81	20.7	0.09
	9/6/2024	49	0.03	15.1	8.8	7.8	3.81	20.6	0.10
	9/23/2024	36	0.31	48.7	28.0	8.0	3.93	20.8	0.10
	10/10/2024	36	0.04	17.5	9.9	8.3	4.05	20.7	0.14
	10/24/2024	36	0.06	21.4	11.9	8.8	4.30	20.1	0.27
	11/11/2024	66	0.04	17.5	7.5	13.5	6.63	20.9	0.20
	11/20/2024	62	0.04	17.5	7.5	13.5	6.63	20.9	0.16
	12/10/2024	70	0.19	38.1	16.4	13.5	6.63	20.9	0.16
	12/19/2024	25	0.25	43.7	24.0	9.0	4.42	--	--
	1/13/2025	17	1.39	103.1	55.2	9.5	4.67	20.9	0.03
	1/23/2025	20	0.67	71.6	37.4	10.0	4.91	20.9	0.02
	2/7/2025	--	0.41	56.0	19.7	16.5	8.10	--	--
	2/24/2025	--	0.53	63.6	22.4	16.5	8.10	--	--
	3/10/2025	--	0.42	56.7	27.8	11.3	5.53	--	--
	3/29/2025	14	0.78	77.2	23.7	18.3	8.96	19.2	0.70
MW10	1/2/2024	104	--	--	44.0	1.0	0.49	20.9	0.08
	1/3/2024	92	--	--	16.0	1.0	0.49	20.9	0.02
	1/4/2024	--	--	--	85.0	14.0	6.88	--	--
	1/5/2024	147	--	--	69.0	13.5	6.63	20.9	0.36
	1/11/2024	59	0.88	82	43.9	9.5	4.67	--	--
	1/18/2024	256	0.77	77	35.1	12.5	6.14	--	--
	1/24/2024	7	0.62	69	34.2	11.0	5.40	20.9	0.00
	2/1/2024	435	0.21	40	26.2	5.0	2.46	--	--
	2/8/2024	381	--	--	--	7.0	3.44	20.9	0.32
	2/15/2024	205	0.05	20	11.8	7.0	3.44	20.6	0.18
	2/21/2024	204	0.03	15	9.1	7.0	3.44	20.7	0.16

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TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm)[1]	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
MW10	3/1/2024	91	0.12	30	16.6	9.0	4.42	20.9	0.12
	3/7/2024	60	0.34	51	28.0	9.0	4.42	20.9	0.18
	3/14/2024	75	0.57	66	36.2	9.0	4.42	20.9	0.16
	3/21/2024	77	0.48	61	33.2	9.0	4.42	20.9	0.13
	4/1/2024	280	0.00	0	0.0	9.0	4.42	--	--
	4/5/2024	321	0.69	73	39.9	9.0	4.42	20.4	0.13
	4/19/2024	297	0.17	36	20.3	8.5	4.17	20.5	0.14
	5/7/2024	242	0.12	30	17.0	8.5	4.17	20.6	0.13
	5/21/2024	234	0.06	21	12.0	8.5	4.17	20.7	0.13
	6/6/2024	196	0.04	17	9.5	9.3	4.54	20.8	0.16
	6/27/2024	302	0.22	41	21.4	10.0	4.91	20.8	0.15
	7/17/2024	66	--	--	--	10.3	5.03	20.9	0.11
	7/29/2024	61	--	--	--	10.3	5.03	20.9	0.10
	8/12/2024	61	0.56	65	33.8	10.3	5.03	20.9	0.11
	8/23/2024	51	0.89	82	40.4	11.3	5.53	20.9	0.08
	9/6/2024	80	Gauge Broken	--	--	11.0	5.40	20.9	0.08
	9/23/2024	50	0.87	82	41.6	10.5	5.16	20.8	0.14
	10/10/2024	49	Gauge Broken	--	--	8.5	4.17	20.7	0.13
	10/24/2024	28	Gauge Broken	--	--	5.3	2.58	20.6	0.13
	11/11/2024	19	Gauge Broken	--	--	12.0	5.89	20.9	0.12
	11/20/2024	38	2.77	146	66.5	12.5	6.14	20.9	0.08
	12/10/2024	24	0.15	34	15.5	12.5	6.14	20.9	0.09
	12/19/2024	44	0.21	40	24.1	7.0	3.44	--	--
	1/13/2025	40	0.32	49	28.8	7.8	3.81	20.9	0.07
	1/23/2025	60	0.22	41	23.6	8.0	3.93	20.9	0.07
	2/7/2025	--	0.65	70	38.7	9.0	4.42	--	--
	2/24/2025	--	Gauge Broken	--	--	10.0	4.91	--	--
	3/10/2025	--	Gauge Broken	--	--	9.5	4.67	--	--
	3/29/2025	18	0.02	12	5.4	13.3	6.51	20.2	0.20
MW15	1/2/2024	126	--	--	46.0	1.0	0.49	20.9	0.12
	1/3/2024	125	--	--	20.0	1.0	0.49	20.9	0.02
	1/4/2024	--	--	--	45.0	11.5	5.65	--	--
	1/5/2024	138	--	--	43.0	11.5	5.65	20.9	0.10
	1/11/2024	Frozen							
	1/18/2024	124	3.78	170.0	79.9	12.0	5.89	--	--
	1/24/2024	425	0.18	37.1	20.8	8.5	4.17	20.9	0.18
	2/1/2024	34	0.12	30.3	19.0	6.0	2.95	--	--
	2/8/2024	90	--	--	--	5.0	2.43	20.9	0.06
	2/15/2024	25	0.05	19.5	11.8	7.0	3.44	20.9	0.08
	2/21/2024	57	--	--	--	--	--	20.9	0.08
	3/1/2024	129	0.07	23.1	12.7	9.0	4.42	20.9	0.00
	3/7/2024	114	0.16	35.0	19.2	9.0	4.42	20.9	0.00
	3/14/2024	130	0.13	31.5	17.3	9.0	4.42	20.9	0.00
	3/21/2024	122	0.13	31.5	17.3	9.0	4.42	20.9	0.00
	4/1/2024	25	0.30	47.9	26.3	9.0	4.42	--	--
	4/5/2024	34	0.23	41.9	23.6	8.5	4.17	20.4	0.00
	4/19/2024	73	0.03	15.1	8.5	8.5	4.17	20.6	0.00
	5/7/2024	50	0.24	42.8	24.1	8.5	4.17	20.8	0.00
	5/21/2024	23	0.24	42.8	24.1	8.5	4.17	20.5	0.00
	6/6/2024	269	0.00	0.0	0.0	9.0	4.42	20.3	0.17
	6/27/2024	169	0.52	63.0	33.8	9.5	4.67	20.4	0.02
	7/17/2024	10	0.02	12.4	6.4	10.3	5.03	20.9	0.11
	7/29/2024	16	0.09	26.2	13.7	10.0	4.91	20.9	0.00
	8/12/2024	19	0.03	15.1	7.8	10.3	5.03	20.9	0.00
	8/23/2024	13	0.02	12.4	6.5	10.0	4.91	20.9	0.00
	9/6/2024	27	Gauge Broken	--	--	10.8	5.28	20.9	0.00
	9/23/2024	32	0.02	12.4	6.4	10.3	5.03	20.7	0.10
	10/10/2024	39	0.01	8.7	4.5	10.3	5.03	20.7	0.13
	10/24/2024	18	Gauge Broken	--	--	12.5	6.14	20.9	0.00
	11/11/2024	78	0.02	12.4	5.7	12.5	6.14	20.9	0.15
	11/20/2024	92	Gauge Broken	--	--	13.5	6.63	20.9	0.12
	12/10/2024	84	0.01	8.7	3.9	13.0	6.39	20.9	0.12
	12/19/2024	33	0.28	46.3	26.6	8.0	3.93	--	--
	1/13/2025	20	0.65	70.5	40.1	8.3	4.05	20.9	0.00
	1/23/2025	26	0.46	59.3	33.3	8.5	4.17	20.9	0.00
	2/7/2025	--	Gauge Broken	--	--	15.0	7.37	--	--
	2/24/2025	--	Gauge Broken	--	--	15.0	7.37	--	--
	3/10/2025	--	Gauge Broken	--	--	6.8	3.32	--	--
	3/29/2025	28	Gauge Broken	--	--	16.5	8.10	20.5	0.30

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TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm)[1]	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)

Notes:

(1) Individual Well Flow Rates in scfm estimated based on rotometer readings from 1/2/24 to 1/5/24
IHG: inches of mercury
PID: photoionization detector
ppm: parts per million
acfm: actual cubic feet per minute
scfm: standard cubic feet per minute
%: percent
--: not measured

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TABLE 3
DUAL PHASE EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH/GRO (µg/L)	Oxygen (%)	Carbon Dioxide (%)
1/2/2024	198	0.58	2.8	0.42	8.9	170	21.64	0.09
1/3/2024	69	0.21	1.2	0.24	5.0	69	21.71	0.06
1/4/2024	467	29	40	<5.0	18	3,400	17.40	4.80
1/5/2024	416	18	26	<5.0	8.7	2,300	20.83	1.26
1/12/2024(1)	993	22	42	<5.0	56	6,500	20.53	1.49
1/18/2024	234	21	28	<5.0	10	2,700	21.30	0.42
1/24/2024	523	22	40	<5.0	30	4,400	21.19	0.57
2/8/2024	350	19	31	<5.0	34	2,200	21.33	0.51
2/21/2024	400	13	18	<2.0	18	2,900	19.74	0.40
3/7/2024	525	14	28	<5.0	36	2,100	21.91	0.30
3/21/2024	568	15	27	1.1	34	2,900	21.57	0.29
5/7/2024	337	5.2	9.2	<2.0	10	1,400	22.02	0.31
7/30/2024 (2)	190	3.9	7.3	<2.0	6.6	980	21.14	0.27
9/5/2024	156	3.2	8.1	<2.0	6.6	680	22.07	0.21
11/20/2024	79	8.2	44.0	3.1	43	1,300	21.34	0.12
2/7/2025	32	1.6	4.8	0.34	5.3	140	21.68	0.13

Notes:

GRO: gasoline range organics
µg/L: microgram per liter
PID: photoionization detector
ppm: parts per million
TVPH: total volatile petroleum hydrocarbons
%: percent
--: not sampled

(1) PID reading is from 1/11/2024
(2) PID Reading is from 7/29/2024

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TABLE 4
DUAL PHASE EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Laboratory Analysis

Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH (µg/L)
1/2/2024	198	0.58	2.8	0.42	8.9	170
1/3/2024	69	0.21	1.2	0.24	5.0	69
1/4/2024	467	29	40	<5.0	18	3,400
1/5/2024	416	18	26	<5.0	8.7	2,300
1/12/2024(1)	993	22	42	<5.0	56	6,500
1/18/2024	234	21	28	<5.0	10	2,700
1/24/2024	523	22	40	<5.0	30	4,400
2/8/2024	350	19	31	<5.0	34	2,200
2/21/2024	400	13	18	<2.0	18	2,900
3/7/2024	525	14	28	<5.0	36	2,100
3/21/2024	568	15	27	1.1	34	2,900
5/7/2024	337	5.2	9.2	<2.0	10	1,400
7/30/2024(2)	190	3.9	7.3	<2.0	6.6	980
9/5/2024	156	3.2	8.1	<2.0	6.6	680
11/20/2024	79	8.2	44.0	3.1	43	1,300
2/7/2025	32	1.6	4.8	0.34	5.3	140
Average	346	12	22	3	21	2,134

Vapor Extraction Summary

Date	Flow Rate (scfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
1/2/2024	534	0	0	0.0012	0.0056	0.0008	0.0178	0.34
1/3/2024	534	762,552	762,552	0.0008	0.0040	0.0007	0.0139	0.24
1/4/2024	398	1,347,612	585,060	0.0217	0.0307	0.0039	0.0171	2.58
1/5/2024	216	1,648,284	300,672	0.0190	0.0267	0.0040	0.0108	2.30
1/12/2024(1)	187	3,569,148	1,920,864	0.0140	0.0238	0.0035	0.0226	3.08
1/18/2024	220	5,271,948	1,702,800	0.0177	0.0288	0.0041	0.0272	3.78
1/24/2024	260	7,487,148	2,215,200	0.0209	0.0331	0.0049	0.0194	3.45
2/8/2024	340	14,749,548	7,262,400	0.0261	0.0451	0.0064	0.0407	4.20
2/21/2024	340	21,055,188	6,305,640	0.0203	0.0312	0.0045	0.0331	3.24
3/7/2024	271	26,939,682	5,884,494	0.0137	0.0233	0.0035	0.0274	2.53
3/21/2024	282	32,540,202	5,600,520	0.01529	0.0290	0.00322	0.0369	2.64
5/7/2024	247	48,738,462	16,198,260	0.00933	0.0167	0.00143	0.0203	1.99
7/30/2024(2)	249	78,153,828	29,415,366	0.00424	0.0077	0.00186	0.0077	1.11
9/5/2024	151	86,402,958	8,249,130	0.00200	0.0043	0.00113	0.0037	0.47
11/20/2024	162	101,591,430	15,188,472	0.00345	0.0158	0.00155	0.0150	0.60
2/7/2025	109	113,301,954	11,710,524	0.00200	0.0099	0.00070	0.0098	0.29
			Average	0.0120	0.021	0.0029	0.020	2.05

Mass Recovery

Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
1/2/2024	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/3/2024	28	24	0.0	0.1	0.0	0.3	5.7	0.0
1/4/2024	53	25	0.5	0.8	0.1	0	63	0.03
1/5/2024	76	23	0.4	0.6	0.1	0.3	53	0.03
1/12/2024(1)	247	171	2.4	4.1	0.6	4	527	0.26
1/18/2024	376	129	2.3	3.7	0.5	4	488	0.24
1/24/2024	518	142	3.0	4.7	0.7	2.8	490	0.25
2/8/2024	874	356	9.3	16	2.3	14	1,494	0.75
2/21/2024	1,183	309	6.29	9.6	1.4	10	1,002	0.50
3/7/2024	1,545	362	4.95	8.4	1.3	10	917	0.46
3/21/2024	1,876	331	5.06	9.6	1.06	12.2	873	0.44
5/7/2024	2,969	1,093	10.20	18.3	1.57	22.2	2,171	1.09
7/30/2024(2)	4,938	1,969	8.34	15.1	3.67	15.2	2,182	1.09
9/5/2024	5,848	911	1.83	4.0	1.03	3.4	427	0.21
11/20/2024	7,411	1,563	5.40	24.7	2.41	23.5	937	0.47
2/7/2025	9,202	1,791	3.58	17.8	1.26	17.6	526	0.26
		Total Mass Recovery to Date	64	138	18	140	12,156	6.1

Notes:

cf: cubic feet
cfm: cubic feet per minute
µg/L: micrograms per liter
lb/hr: pounds per hour
--: not sampled
PID: photoionization detector
ppm: parts per million
TVPH: total volatile petroleum hydrocarbons
Laboratory detection limit used to estimate mass removal
(1) PID reading, flow rate, and hour meter are from 1/11/2024
(2) PID reading, flow rate, and hour meter are from 7/29/2024

ENSOLUM

TABLE 5
LIQUID RECOVERY
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Date/Time	Hour Meter Reading	Flow Meter Reading (gal)	Gallons Recovered this Period	Cumulative Volume Recovered (gal)	Time Period (hr:min:sec)	Time Period (min)	Recovery Rate		Notes
							(gpm)	(gal/day)	
1/11/24 13:15	219	2,648	0	0	--	--	--	--	
1/18/24 14:05	376	8,518	5,870	5,870	168:50:00	10,130	0.58	834	
1/24/24 12:30	518	12,337	3,819	9,689	142:25:00	8,545	0.45	644	
2/1/24 11:00	707	14,170	1,834	11,522	190:30:00	11,430	0.16	231	
2/8/24 10:39	874	17,328	3,158	14,680	167:39:00	10,059	0.31	452	
2/15/24 10:40	1,040	21,029	3,701	18,381	168:01:00	10,081	0.37	529	
2/21/24 10:05	1,183	23,866	2,837	21,218	143:25:00	8,605	0.33	475	
3/1/24 13:20	1,399	28,034	4,168	25,385	219:15:00	13,155	0.32	456	
3/7/24 14:50	1,545	32,076	4,042	29,428	145:30:00	8,730	0.46	667	
3/14/24 13:05	1,710	36,362	4,286	33,713	166:15:00	9,975	0.43	619	
3/21/24 10:02	1,876	40,443	4,082	37,795	164:57:00	9,897	0.41	594	
4/1/24 13:00	--	--	--	--	--	--	--	--	
4/5/24 10:00	2,201	48,058	7,614	45,409	359:58:00	21,598	0.35	508	
4/19/24 10:44	2,537	55,292	7,234	52,643	336:44:00	20,204	0.36	516	
5/7/24 10:07	2,969	63,559	8,268	60,911	431:23:00	25,883	0.32	460	
5/21/24 16:22	3,310	69,749	6,190	67,101	342:15:00	20,535	0.30	434	
6/6/24 11:11	3,661	75,626	5,877	72,977	378:49:00	22,729	0.26	372	
6/27/24 13:30	4,167	84,339	8,714	81,691	506:19:00	30,379	0.29	413	
7/17/24 11:33	4,645	92,352	8,013	89,704	478:03:00	28,683	0.28	402	
7/29/24 16:29	4,938	97,043	4,691	94,395	292:56:00	17,576	0.27	384	
8/12/24 14:38	5,272	101,851	4,808	99,203	334:09:00	20,049	0.24	345	
8/23/24 13:05	5,535	105,583	3,732	102,935	262:27:00	15,747	0.24	341	
9/5/24 14:56	5,848	109,915	4,332	107,267	313:51:00	18,831	0.23	331	
9/23/24 12:05	6,278	115,338	5,423	112,689	429:09:00	25,749	0.21	303	
10/10/24 15:05	6,640	118,996	3,659	116,348	411:00:00	24,660	0.15	214	
10/24/24 11:23	6,972	122,790	3,794	120,142	332:18:00	19,938	0.19	274	
11/11/24 11:45	7,193	124,182	1,392	121,533	432:22:00	25,942	0.05	77	
11/20/24 14:04	7,411	125,918	1,737	123,270	218:19:00	13,099	0.13	191	
12/10/24 12:57	7,784	128,057	2,139	125,409	478:53:00	28,733	0.07	107	
12/19/24 13:33	7,999	128,700	643	126,052	216:36:00	12,996	0.05	71	
1/13/25 13:08	8,599	129,849	1,149	127,201	599:35:00	35,975	0.03	46	
1/23/25 12:25	8,838	130,349	500	127,701	239:17:00	14,357	0.03	50	
2/7/25 15:52	9,202	132,316	1,967	129,667	363:27:00	21,807	0.09	130	
2/24/25 12:29	9,606	135,059	2,744	132,411	404:37:00	24,277	0.11	163	
3/10/25 11:35	9,940	136,075	1,016	133,427	335:06:00	20,106	0.05	73	
3/29/25 14:35	10,255	136,824	749	134,175	459:00:00	27,540	0.03	39	

Notes:

bbl: barrel
ft: feet
gal: gallon
gal/day: gallon per day
gpm: gallon per minute
hr: hour
in: inch
min: minute
sec: second
Dashed line indicated quarter change
--: not applicable

Total Quantity of Liquid Removed:	134,175	Gal
	3,195	bbl

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TABLE 6
GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW01	5,789.08	10/22/2018	20.80	20.97	0.17	5,768.25
		3/29/2019	20.69	21.35	0.66	5,768.26
		6/28/2019	20.70	21.44	0.74	5,768.23
		9/17/2019	20.64	20.83	0.19	5,768.40
		12/17/2019	20.50	20.89	0.39	5,768.50
		3/12/2020	20.49	20.76	0.27	5,768.54
		6/25/2020	20.39	20.65	0.26	5,768.64
		9/23/2020	20.19	20.46	0.27	5,768.84
		3/21/2021	20.11	20.20	0.09	5,768.95
		6/14/2021	Trace	20.18	Trace	5,768.90
		9/20/2021	--	19.62	--	5,769.46
		12/2/2021	Trace	19.50	Trace	5,769.58
		3/1/2022	Trace	19.62	Trace	5,769.46
		6/7/2022	Trace	19.39	Trace	5,769.69
		9/29/2022	19.08	19.10	0.02	5,770.00
		12/8/2022	19.05	19.12	0.07	5,770.02
		3/2/2023	18.91	18.93	0.02	5,770.17
		6/16/2023	18.80	18.90	0.10	5,770.26
		9/15/2023	--	18.55	--	5,770.53
		12/14/2023	--	--	--	--
		3/27/2024	--	20.18	--	5,768.90
		6/3/2024	Trace	20.19	Trace	5,768.89
		9/23/2024	Trace	20.33	Trace	5,768.75
		12/9/2024	Trace	20.23	Trace	5,768.85
		3/20/2025	Trace	19.78	Trace	5,769.30
MW02	5,789.36	10/22/2018	--	21.12	--	5,768.24
		3/29/2019	20.85	21.11	0.26	5,768.46
		6/28/2019	20.95	21.30	0.35	5,768.34
		9/17/2019	20.80	20.85	0.05	5,768.55
		12/17/2019	--	20.74	--	5,768.62
		3/12/2020	--	20.65	--	5,768.71
		6/25/2020	--	20.58	--	5,768.78
		9/23/2020	--	20.43	--	5,768.93
		3/31/2021	--	20.29	--	5,769.07
		6/14/2021	Trace	20.21	Trace	5,769.15
		9/20/2021	--	19.77	--	5,769.59
		12/3/2021	--	19.68	--	5,769.68
		3/1/2022	--	19.83	--	5,769.53
		6/7/2022	Trace	19.56	Trace	5,769.80
		9/29/2022	--	19.26	--	5,770.10
		12/8/2022	--	19.22	--	5,770.14
		3/2/2023	Trace	19.06	Trace	5,770.30
		6/16/2023	Trace	18.90	Trace	5,770.46
		9/15/2023	--	18.79	--	5,770.57
		12/14/2023	--	--	--	--
		3/27/2024	--	19.69	--	5,769.67
		6/3/2024	Trace	19.57	Trace	5,769.79

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TABLE 6
GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW02	5,789.36	9/23/2024	Trace	19.68	Trace	5,769.68
		12/9/2024	Trace	18.89	Trace	5,770.47
		3/20/2025	Trace	19.25	Trace	5,770.11
MW03	5,792.06	10/22/2018	--	DRY	--	DRY
		3/29/2019	--	30.90	--	5,761.16
		6/28/2019	--	32.14	--	5,759.92
		9/17/2019	--	27.32	--	5,764.74
		12/17/2019	--	23.75	--	5,768.31
		3/12/2020	--	23.40	--	5,768.66
		6/25/2020	--	23.25	--	5,768.81
		9/23/2020	--	23.08	--	5,768.98
		3/31/2021	--	22.81	--	5,769.25
		6/14/2021	--	22.61	--	5,769.45
		9/24/2021	22.24	22.25	0.01	5,769.82
		12/3/2021	--	22.17	--	5,769.89
		3/1/2022	--	22.30	--	5,769.76
		6/7/2022	--	22.04	--	5,770.02
		9/29/2022	--	21.71	--	5,770.35
		12/8/2022	--	21.69	--	5,770.37
		3/2/2023	--	21.46	--	5,770.60
		6/16/2023	--	21.29	--	5,770.77
		9/15/2023	--	21.20	--	5,770.86
		12/14/2023	--	--	--	--
		3/27/2024	--	20.46	--	5,771.60
		6/3/2024	--	23.22	--	5,768.84
		9/23/2024	Trace	20.79	Trace	5,771.27
		12/9/2024	Trace	18.66	Trace	5,773.40
		3/21/2025	Trace	19.08	Trace	5,772.98
MW04	5,792.35	10/22/2018	--	31.80	--	5,760.55
		3/29/2019	--	DRY	--	DRY
		6/28/2019	--	DRY	--	DRY
		9/17/2019	--	31.88	--	5,760.47
		12/17/2019	--	31.87	--	5,760.48
		3/12/2020	--	DRY	--	DRY
		6/25/2020	--	31.89	--	5,760.46
		9/23/2020	--	30.99	--	5,761.36
		3/31/2021	--	28.31	--	5,764.04
		6/14/2021	--	26.98	--	5,765.37
		9/24/2021	--	24.85	--	5,767.50
		12/3/2021	--	22.12	--	5,770.23
		3/1/2022	--	22.52	--	5,769.83
		6/7/2022	--	21.38	--	5,770.97
		9/29/2022	--	21.13	--	5,771.22
		12/8/2022	Trace	21.00	Trace	5,771.35
		3/2/2023	--	20.72	--	5,771.63
		6/16/2023	Trace	20.45	Trace	5,771.90
		9/15/2023	--	20.49	--	5,771.86

ENSOLUM

TABLE 6
GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW04	5,792.35	12/14/2023	--	20.47	--	5,771.88
		3/27/2024	Trace	20.60	Trace	5,771.75
		6/3/2024	--	20.48	--	5,771.87
		9/23/2024	Trace	20.77	Trace	5,771.58
		12/9/2024	Trace	20.22	Trace	5,772.13
		3/21/2025	Trace	20.08	Trace	5,772.27
MW05	5,792.60	10/22/2018	--	28.39	--	5,764.21
		3/29/2019	--	24.65	--	5,767.95
		6/28/2019	--	24.53	--	5,768.07
		9/17/2019	--	21.41	--	5,771.19
		12/17/2019	--	21.25	--	5,771.35
		3/12/2020	--	21.10	--	5,771.50
		6/25/2020	--	21.13	--	5,771.47
		9/23/2020	--	20.93	--	5,771.67
		3/31/2021	--	20.76	--	5,771.84
		6/14/2021	--	20.61	--	5,771.99
		9/24/2021	--	20.37	--	5,772.23
		12/3/2021	--	20.41	--	5,772.19
		3/1/2022	--	20.58	--	5,772.02
		6/7/2022	Trace	20.24	Trace	5,772.36
		9/29/2022	Trace	20.02	Trace	5,772.58
		12/8/2022	Trace	19.97	Trace	5,772.63
		3/2/2023	Trace	19.82	Trace	5,772.78
		6/16/2023	Trace	19.63	Trace	5,772.97
		9/15/2023	--	19.61	--	5,772.99
		12/14/2023	--	19.61	--	5,772.99
		3/27/2024	Trace	20.12	Trace	5,772.48
		6/3/2024	Trace	20.03	Trace	5,772.57
		9/23/2024	Trace	20.05	Trace	5,772.55
		12/9/2024	Trace	19.67	Trace	5,772.93
		3/21/2025	Trace	19.50	Trace	5,773.10
MW06	5,792.31	10/22/2018	24.08	24.48	0.40	5,768.15
		3/29/2019	23.55	24.00	0.45	5,768.67
		6/28/2019	23.72	23.95	0.23	5,768.54
		9/17/2019	20.67	20.75	0.08	5,771.62
		12/17/2019	20.61	20.62	0.01	5,771.70
		3/12/2020	--	20.43	--	5,771.88
		6/25/2020	--	20.36	--	5,771.95
		9/23/2020	--	20.16	--	5,772.15
		3/31/2021	--	19.89	--	5,772.42
		6/14/2021	Trace	19.63	Trace	5,772.68
		9/24/2021	--	19.27	--	5,773.04
		12/3/2021	--	19.27	--	5,773.04
		3/1/2022	--	19.43	--	5,772.88
		6/7/2022	--	19.11	--	5,773.20
		9/29/2022	Trace	18.80	Trace	5,773.51
		12/8/2022	Trace	18.76	Trace	5,773.55

ENSOLUM

TABLE 6
GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW06	5,792.31	3/2/2023	Trace	18.52	Trace	5,773.79
		6/16/2023	Trace	18.29	Trace	5,774.02
		9/15/2023	--	18.25	--	5,774.06
		12/14/2023	--	--	--	--
		3/27/2024	--	18.57	--	5,773.74
		6/3/2024	Trace	19.10	Trace	5,773.21
		9/23/2024	Trace	18.55	Trace	5,773.76
		12/9/2024	Trace	17.36	Trace	5,774.95
		3/21/2025	Trace	18.08	Trace	5,774.23
MW07	5,791.15	10/22/2018	--	DRY	--	DRY
		3/29/2019	--	DRY	--	DRY
		6/28/2019	--	DRY	--	DRY
		9/17/2019	--	DRY	--	DRY
		12/17/2019	--	DRY	--	DRY
		3/12/2020	--	DRY	--	DRY
		6/25/2020	--	DRY	--	DRY
		9/23/2020	--	DRY	--	DRY
		3/31/2021	--	DRY	--	DRY
		6/14/2021	--	DRY	--	DRY
		9/24/2021	--	DRY	--	DRY
		12/2/2021	--	DRY	--	DRY
		3/1/2022	--	DRY	--	DRY
		6/7/2022	--	DRY	--	DRY
		9/29/2022	--	21.80	--	5,769.35
		12/8/2022	--	22.56	--	5,768.59
		3/2/2023	--	22.32	--	5,768.83
		6/16/2023	--	21.42	--	5,769.73
		9/15/2023	--	DRY	--	DRY
		12/14/2023	--	--	--	--
		3/27/2024	--	--	--	--
		6/3/2024	--	DRY	--	DRY
		9/23/2024	--	DRY	--	DRY
		12/9/2024	--	DRY	--	DRY
		3/21/2025	--	DRY	--	DRY
MW08	5,792.42	10/22/2018	--	DRY	--	DRY
		3/29/2019	--	DRY	--	DRY
		6/28/2019	--	24.07	--	5,768.35
		9/17/2019	--	23.81	--	5,768.61
		12/17/2019	--	23.42	--	5,769.00
		3/12/2020	--	23.37	--	5,769.05
		6/25/2020	--	23.28	--	5,769.14
		9/23/2021	--	22.88	--	5,769.54
		3/31/2021	--	22.14	--	5,770.28
		6/14/2021	--	21.67	--	5,770.75
		9/24/2021	--	21.52	--	5,770.90
		12/2/2021	--	21.76	--	5,770.66
		3/1/2022	--	21.81	--	5,770.61

ENSOLUM

TABLE 6
GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW08	5,792.42	6/7/2022	--	21.17	--	5,771.25
		9/29/2022	--	21.02	--	5,771.40
		12/8/2022	--	20.85	--	5,771.57
		3/2/2023	--	20.52	--	5,771.90
		6/16/2023	--	20.22	--	5,772.20
		9/14/2023	--	20.32	--	5,772.10
		12/14/2023	--	20.26	--	5,772.16
		3/27/2024	--	20.18	--	5,772.24
		6/3/2024	--	20.05	--	5,772.37
		9/23/2024	--	19.90	--	5,772.52
		12/10/2024	--	19.88	--	5,772.54
		3/21/2024	Trace	23.52	Trace	5,768.90
MW09	5,786.16	10/22/2018	--	DRY	--	DRY
		3/29/2019	--	DRY	--	DRY
		6/28/2019	--	DRY	--	DRY
		9/17/2019	--	DRY	--	DRY
		12/17/2019	--	DRY	--	DRY
		3/12/2020	--	DRY	--	DRY
		6/25/2020	--	DRY	--	DRY
		9/23/2020	--	DRY	--	DRY
		3/31/2021	--	DRY	--	DRY
		6/14/2021	--	DRY	--	DRY
		9/24/2021	--	DRY	--	DRY
		12/2/2021	--	DRY	--	DRY
		3/1/2022	--	DRY	--	DRY
		6/7/2022	--	DRY	--	DRY
		9/29/2022	--	DRY	--	DRY
		12/8/2022	--	DRY	--	DRY
		3/2/2023	--	DRY	--	DRY
		6/16/2023	--	22.61	--	5,763.55
		9/15/2023	--	17.37	--	5,768.79
		12/15/2023	--	17.38	--	5,768.78
		3/28/2024	--	24.74	--	5,761.42
		6/3/2024	--	26.65	--	5,759.51
		9/23/2024	--	26.64	--	5,759.52
		12/10/2024	--	26.96	--	5,759.20
		3/20/2025	--	17.55	--	5,768.61
MW10	5,789.30	10/22/2018	--	32.26	--	5,757.04
		3/29/2019	21.73	22.04	0.31	5,767.51
		6/28/2019	21.55	21.94	0.39	5,767.67
		9/17/2019	21.23	21.55	0.32	5,768.01
		12/17/2019	20.88	21.71	0.83	5,768.25
		3/12/2020	20.81	21.68	0.87	5,768.32
		6/25/2020	20.75	21.43	0.68	5,768.41
		9/23/2020	20.51	21.03	0.52	5,768.69
		3/31/2021	20.42	20.63	0.21	5,768.84
		6/14/2021	Trace	20.71	Trace	5,768.59

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TABLE 6
GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW10	5,789.30	9/24/2021	--	19.92	--	5,769.38
		12/3/2021	--	19.80	--	5,769.50
		3/1/2022	--	19.95	--	5,769.35
		6/7/2022	Trace	19.70	Trace	5,769.60
		9/29/2022	Trace	19.43	Trace	5,769.87
		12/8/2022	Trace	19.40	Trace	5,769.90
		3/2/2023	Trace	19.27	Trace	5,770.03
		6/16/2023	Trace	19.11	Trace	5,770.19
		9/15/2023	--	19.00	--	5,770.30
		12/15/2023	--	--	--	--
		3/28/2024	--	24.62	--	5,764.68
		6/3/2024	--	DRY	--	DRY
		9/23/2024	Trace	26.48	Trace	5762.82
		12/9/2024	Trace	23.58	Trace	5765.72
		3/20/2025	Trace	24.86	Trace	5764.44
MW11	5,787.99	10/22/2018	--	19.89	--	5,768.10
		3/29/2019	--	19.63	--	5,768.36
		6/28/2019	--	19.37	--	5,768.62
		9/17/2019	--	19.31	--	5,768.68
		12/17/2019	--	19.17	--	5,768.82
		3/12/2020	--	18.91	--	5,769.08
		6/25/2020	--	18.85	--	5,769.14
		9/23/2020	--	18.71	--	5,769.28
		3/31/2021	--	18.40	--	5,769.59
		6/14/2021	--	18.06	--	5,769.93
		9/24/2021	--	17.72	--	5,770.27
		12/2/2021	--	17.79	--	5,770.20
		3/1/2022	--	17.90	--	5,770.09
		6/7/2022	--	17.55	--	5,770.44
		9/29/2022	--	17.27	--	5,770.72
		12/8/2022	--	17.19	--	5,770.80
		3/2/2023	--	16.97	--	5,771.02
		6/16/2023	--	16.74	--	5,771.25
		9/14/2023	--	16.75	--	5,771.24
		12/14/2023	--	16.68	--	5,771.31
		3/28/2024	--	17.08	--	5,770.91
		6/3/2024	--	17.05	--	5,770.94
		9/23/2024	--	16.70	--	5,771.29
		12/9/2024	--	16.45	--	5,771.54
		3/21/2025	--	16.35	--	5,771.64
MW12	5,789.57	10/22/2018	--	21.77	--	5,767.80
		3/29/2019	--	21.88	--	5,767.69
		6/28/2019	--	21.67	--	5,767.90
		9/17/2019	--	21.49	--	5,768.08
		12/17/2019	--	21.54	--	5,768.03
		3/12/2020	--	21.31	--	5,768.26
		6/25/2020	--	21.21	--	5,768.36
		9/23/2020	--	21.02	--	5,768.55

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San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW12	5,789.57	3/31/2021	--	20.93	--	5,768.64
		6/14/2021	--	20.61	--	5,768.96
		9/24/2021	--	20.17	--	5,769.40
		12/2/2021	--	20.17	--	5,769.40
		3/1/2022	--	20.30	--	5,769.27
		6/7/2022	--	20.02	--	5,769.55
		9/29/2022	--	19.68	--	5,769.89
		12/8/2022	--	19.57	--	5,770.00
		3/2/2023	--	19.32	--	5,770.25
		6/16/2023	--	19.11	--	5,770.46
		9/14/2023	--	19.04	--	5,770.53
		12/14/2023	--	19.01	--	5,770.56
		3/28/2024	--	19.49	--	5,770.08
		6/3/2024	--	19.49	--	5,770.08
		9/23/2024	--	19.22	--	5,770.35
		12/9/2024	--	18.88	--	5,770.69
		3/21/2025	--	19.28	--	5,770.29
MW13	5,785.16	10/22/2018	--	DRY	--	DRY
		3/29/2019	--	DRY	--	DRY
		6/28/2019	--	DRY	--	DRY
		9/17/2019	--	DRY	--	DRY
		12/17/2019	--	DRY	--	DRY
		3/12/2020	--	DRY	--	DRY
		6/25/2020	--	DRY	--	DRY
		9/23/2020	--	DRY	--	DRY
		3/31/2021	--	DRY	--	DRY
		6/14/2021	--	DRY	--	DRY
		9/24/2021	--	DRY	--	DRY
		12/2/2021	--	DRY	--	DRY
		3/1/2022	--	DRY	--	DRY
		6/7/2022	--	DRY	--	DRY
		9/29/2022	--	DRY	--	DRY
		12/8/2022	--	DRY	--	DRY
		3/2/2023	--	DRY	--	DRY
		6/16/2023	--	DRY	--	DRY
		9/14/2023	--	DRY	--	DRY
		12/14/2023	--	DRY	--	DRY
		3/28/2024	--	DRY	--	DRY
		6/3/2024	--	DRY	--	DRY
		9/25/2024	--	DRY	--	DRY
		12/9/2024	--	DRY	--	DRY
		3/20/2025	--	DRY	--	DRY
MW14	5,785.46	10/22/2018	--	22.87	--	5,762.59
		3/29/2019	20.26	20.47	0.21	5,765.16
		6/28/2019	19.15	19.16	0.01	5,766.31
		9/17/2019	18.65	18.69	0.04	5,766.80
		12/17/2019	18.61	18.74	0.13	5,766.82
		3/12/2020	--	18.81	--	5,766.65

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GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW14	5,785.46	6/25/2020	--	18.18	--	5,767.28
		9/23/2020	--	17.92	--	5,767.54
		3/31/2021	--	17.92	--	5,767.54
		6/14/2021	Trace	17.78	Trace	5,767.68
		9/24/2021	--	17.52	--	5,767.94
		12/3/2021	--	17.79	--	5,767.67
		3/1/2022	--	17.18	--	5,768.28
		6/7/2022	--	16.84	--	5,768.62
		9/29/2022	--	16.37	--	5,769.09
		12/8/2022	--	16.17	--	5,769.29
		3/2/2023	Trace	15.91	Trace	5,769.55
		6/16/2023	Trace	15.63	Trace	5,769.83
		9/14/2023	--	15.65	--	5,769.81
		12/14/2023	--	15.63	--	5,769.83
		3/28/2024	Trace	15.84	Trace	5,769.62
		6/3/2024	Trace	15.88	Trace	5,769.58
		9/25/2024	Trace	15.55	Trace	5,769.91
		12/9/2024	Trace	15.47	Trace	5,769.99
		3/21/2025	Trace	15.45	Trace	5,770.01
MW15	5,792.19	3/29/2019	--	DRY	--	DRY
		6/28/2019	--	35.95	--	5,756.24
		9/17/2019	--	33.22	--	5,758.97
		12/17/2019	--	31.61	--	5,760.58
		3/12/2020	--	31.42	--	5,760.77
		6/25/2020	--	30.41	--	5,761.78
		9/23/2020	--	27.42	--	5,764.77
		3/31/2021	--	27.8	--	5,764.39
		6/14/2021	--	29.18	--	5,763.01
		9/24/2021	--	26.69	--	5,765.50
		12/3/2021	--	26.82	--	5,765.37
		3/1/2022	--	26.57	--	5,765.62
		6/7/2022	--	26.49	--	5,765.70
		9/29/2022	--	25.95	--	5,766.24
		12/8/2022	--	26.21	--	5,765.98
		3/2/2023	--	25.95	--	5,766.24
		6/16/2023	--	25.08	--	5,767.11
		9/14/2023	--	25.97	--	5,766.22
		12/14/2023	--	--	--	--
		3/28/2024	--	21.03	--	5,771.16
		6/3/2024	--	15.03	--	5,777.16
		9/25/2024	--	20.37	--	5,771.82
		12/9/2024	Trace	19.86	Trace	5,772.33
		3/21/2025	Trace	20.88	Trace	5,771.31
MW16	5,786.54	3/29/2019	--	28.59	--	5,757.95
		6/28/2019	--	21.00	--	5,765.54
		9/17/2019	--	20.91	--	5,765.63
		12/17/2019	--	21.11	--	5,765.43

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Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW16	5,786.54	3/12/2020	--	20.89	--	5,765.65
		6/25/2020	--	20.51	--	5,766.03
		9/23/2020	--	20.37	--	5,766.17
		3/31/2021	19.99	20.04	0.05	5,766.54
		6/14/2021	Trace	19.51	Trace	5,767.03
		9/24/2021	--	18.81	--	5,767.73
		12/2/2021	Trace	18.46	Trace	5,768.08
		3/1/2022	--	18.39	--	5,768.15
		6/7/2022	--	18.00	--	5,768.54
		9/29/2022	17.53	17.54	0.01	5,769.01
		12/8/2022	--	17.32	--	5,769.22
		3/2/2023	--	17.03	--	5,769.51
		6/16/2023	--	16.81	--	5,769.73
		9/14/2023	--	16.82	--	5,769.72
		12/15/2023	--	16.75	--	5,769.79
		3/28/2024	--	16.91	--	5,769.63
		6/3/2024	--	17.04	--	5,769.50
		9/25/2024	--	17.17	--	5,769.37
		12/9/2024	--	17.22	--	5,769.32
		3/20/2025	--	16.40	--	5,770.14
MW17	5,785.25	3/29/2019	--	DRY	--	DRY
		6/28/2019	--	DRY	--	DRY
		9/17/2019	--	30.24	--	5,755.01
		12/17/2019	--	DRY	--	DRY
		3/12/2020	--	DRY	--	DRY
		6/25/2020	--	DRY	--	DRY
		9/23/2020	--	DRY	--	DRY
		3/31/2021	--	DRY	--	DRY
		6/14/2021	--	DRY	--	DRY
		9/24/2021	--	DRY	--	DRY
		12/2/2021	--	30.24	--	5,755.01
		3/1/2022	--	DRY	--	DRY
		6/7/2022	--	30.21	--	5,755.04
		9/29/2022	--	30.22		5,755.03
		12/8/2022	--	28.68		5,756.57
		3/2/2023	--	25.58	--	5,759.67
		6/16/2023	--	22.13	--	5,763.12
		9/14/2023	--	20.78	--	5,764.47
		12/15/2023	--	21.68	--	5,763.57
		3/28/2024	--	22.38	--	5,762.87
		6/3/2024	--	23.02	--	5,762.23
		9/25/2024	--	21.89	--	5,763.36
		12/9/2024	--	20.94	--	5,764.31
		3/20/2025	--	18.10	--	5,767.15
MW18	5,789.34	3/29/2019	--	DRY	--	DRY
		6/28/2019	--	20.39	--	5,768.95
		9/17/2019	--	19.06	--	5,770.28
		12/17/2019	--	19.98	--	5,769.36

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Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW18	5,789.34	3/12/2020	--	19.98	--	5,769.36
		6/25/2020	--	19.79	--	5,769.55
		9/23/2020	--	19.55	--	5,769.79
		3/31/2021	--	19.43	--	5,769.91
		6/14/2021	--	18.98	--	5,770.36
		9/24/2021	--	18.52	--	5,770.82
		12/2/2021	--	18.64	--	5,770.70
		3/1/2022	--	18.90	--	5,770.44
		6/7/2022	--	18.25	--	5,771.09
		9/29/2022	--	18.01	--	5,771.33
		12/8/2022	--	17.91	--	5,771.43
		3/2/2023	--	17.64	--	5,771.70
		6/16/2023	--	17.38	--	5,771.96
		9/14/2023	--	17.43	--	5,771.91
		12/14/2023	--	17.37	--	5,771.97
		3/27/2024	--	17.61	--	5,771.73
		6/3/2024	--	17.57	--	5,771.77
		9/23/2024	--	17.24	--	5,772.10
		12/9/2024	--	17.30	--	5,772.04
		3/21/2025	--	16.95	--	5,772.39
MW19	5,786.48	3/29/2019	--	19.60	--	5,766.88
		6/28/2019	--	19.55	--	5,766.93
		9/17/2019	--	19.35	--	5,767.13
		12/17/2019	--	19.37	--	5,767.11
		3/12/2020	--	19.45	--	5,767.03
		6/25/2020	--	19.30	--	5,767.18
		9/23/2020	--	19.08	--	5,767.40
		3/31/2021	--	19.21	--	5,767.27
		6/14/2021	--	19.10	--	5,767.38
		9/24/2021	--	18.70	--	5,767.78
		12/2/2021	--	DRY	--	DRY
		3/1/2022	--	18.49	--	5,767.99
		6/7/2022	--	18.35	--	5,768.13
		9/29/2022	--	17.15	--	5,769.33
		12/8/2022	--	18.19	--	5,768.29
		3/2/2023	--	17.93	--	5,768.55
		6/16/2023	--	17.72	--	5,768.76
		9/14/2023	--	17.58	--	5,768.90
		12/15/2023	--	17.63	--	5,768.85
		3/28/2024	--	18.27	--	5,768.21
		6/3/2024	--	18.38	--	5,768.10
		9/25/2024	--	18.20	--	5,768.28
		12/10/2024	--	17.94	--	5,768.54
		3/21/2025	--	17.72	--	5,768.76
MW20	5,783.34	3/29/2019	--	29.61	--	5,753.73
		6/28/2019	--	30.00	--	5,753.34
		9/17/2019	--	30.21	--	5,753.13
		12/17/2019	--	30.15	--	5,753.19

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Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW20	5,783.34	3/12/2020	--	30.30	--	5,753.04
		6/25/2020	--	DRY	--	DRY
		9/23/2020	--	DRY	--	DRY
		3/31/2021	--	DRY	--	DRY
		6/14/2021	--	DRY	--	DRY
		9/24/2021	--	DRY	--	DRY
		12/2/2021	--	30.24	--	5,753.10
		3/1/2022	--	DRY	--	DRY
		6/7/2022	--	DRY	--	DRY
		9/29/2022	--	DRY	--	DRY
		12/8/2022	--	30.25	--	5,753.09
		3/2/2023	--	DRY	--	DRY
		6/16/2023	--	30.25	--	5,753.09
		9/14/2023	--	DRY	--	DRY
		12/15/2023	--	DRY	--	DRY
		3/27/2024	--	DRY	--	DRY
		6/3/2024	--	DRY	--	DRY
		9/25/2024	--	DRY	--	DRY
		12/9/2024	--	30.29	--	5,753.05
		3/20/2025	--	DRY	--	DRY
MW21	5,800.30	3/29/2019	--	DRY	--	DRY
		6/28/2019	--	DRY	--	DRY
		9/17/2019	--	DRY	--	DRY
		12/17/2019	--	DRY	--	DRY
		3/12/2020	--	DRY	--	DRY
		6/25/2020	--	DRY	--	DRY
		9/23/2020	--	DRY	--	DRY
		3/31/2021	--	DRY	--	DRY
		6/14/2021	--	DRY	--	DRY
		9/24/2021	--	DRY	--	DRY
		12/2/2021	--	DRY	--	DRY
		3/1/2022	--	DRY	--	DRY
		6/7/2022	--	DRY	--	DRY
		9/29/2022	--	DRY	--	DRY
		12/8/2022	--	DRY	--	DRY
		3/2/2023	--	DRY	--	DRY
		6/16/2023	--	DRY	--	DRY
		9/14/2023	--	DRY	--	DRY
		12/15/2023	--	DRY	--	DRY
		3/27/2024	--	DRY	--	DRY
		6/3/2024	--	DRY	--	DRY
		9/25/2024	--	DRY	--	DRY
		12/9/2024	--	DRY	--	DRY
		3/20/2025	--	DRY	--	DRY
MW22	5,786.25	3/29/2019	--	22.56	--	5,763.69
		6/28/2019	--	17.62	--	5,768.63
		9/17/2019	--	17.54	--	5,768.71

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TABLE 6
GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW22	5,786.25	12/17/2019	--	17.35	--	5,768.90
		3/12/2020	--	17.10	--	5,769.15
		6/25/2020	--	17.04	--	5,769.21
		9/23/2020	--	16.85	--	5,769.40
		3/31/2021	--	16.43	--	5,769.82
		6/14/2021	--	16.10	--	5,770.15
		9/24/2021	--	15.74	--	5,770.51
		12/2/2021	--	15.84	--	5,770.41
		3/1/2022	--	15.95	--	5,770.30
		6/7/2022	--	15.53	--	5,770.72
		9/29/2022	--	15.25	--	5,771.00
		12/8/2022	--	15.16	--	5,771.09
		3/2/2023	--	14.90	--	5,771.35
		6/16/2023	--	14.68	--	5,771.57
		9/14/2023	--	14.97	--	5,771.28
		12/14/2023	--	14.64	--	5,771.61
		3/28/2024	--	14.77	--	5,771.48
		6/3/2024	--	14.76	--	5,771.49
		9/23/2024	--	14.51	--	5,771.74
		12/9/2024	--	14.34	--	5,771.91
		3/21/2025	--	14.48	--	5,771.77
MW23	5,804.80	6/28/2019	--	45.99	--	5,758.81
		9/17/2019	--	40.23	--	5,764.57
		12/17/2019	--	39.16	--	5,765.64
		3/12/2020	--	38.71	--	5,766.09
		6/25/2020	--	38.92	--	5,765.88
		9/23/2020	--	38.83	--	5,765.97
		3/31/2021	--	37.97	--	5,766.83
		6/14/2021	--	37.90	--	5,766.90
		9/24/2021	--	37.44	--	5,767.36
		12/3/2021	--	37.32	--	5,767.48
		3/1/2022	--	37.38	--	5,767.42
		6/7/2022	--	36.99	--	5,767.81
		9/29/2022	--	36.61	--	5,768.19
		12/8/2022	--	36.49	--	5,768.31
		3/2/2023	--	36.11	--	5,768.69
		6/16/2023	--	35.70	--	5,769.10
		9/15/2023	--	35.58	--	5,769.22
		12/14/2023	--	35.48	--	5,769.32
		3/27/2024	--	35.25	--	5,769.55
		6/3/2024	--	35.26	--	5,769.54
		9/25/2024	--	35.18	--	5,769.62
		12/10/2024	--	34.05	--	5,770.75
		3/21/2025	--	35.08	--	5,769.72
MW24	5,782.50	6/28/2019	--	DRY	--	DRY
		9/17/2019	--	DRY	--	DRY
		12/17/2019	--	DRY	--	DRY

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TABLE 6
GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW24	5,782.50	3/12/2020	--	DRY	--	DRY
		6/25/2020	--	DRY	--	DRY
		9/23/2020	--	DRY	--	DRY
		3/31/2021	--	DRY	--	DRY
		6/14/2021	--	DRY	--	DRY
		9/24/2021	--	DRY	--	DRY
		12/2/2021	--	33.08	--	5,749.42
		3/1/2022	--	DRY	--	DRY
		6/7/2022	--	DRY	--	DRY
		9/29/2022	--	33.09	--	5,749.41
		12/8/2022	--	DRY	--	DRY
		3/2/2023	--	33.07	--	5,749.43
		6/16/2023	--	DRY	--	DRY
		9/15/2023	--	DRY	--	DRY
		12/14/2023	--	DRY	--	DRY
		3/27/2024	--	DRY	--	DRY
		6/3/2024	--	DRY	--	DRY
		9/25/2024	--	DRY	--	DRY
		12/9/2024	--	DRY	--	DRY
		3/20/2025	--	DRY	--	DRY
MW25	5,775.65	6/28/2019	--	32.98	--	5,742.67
		9/17/2019	--	32.91	--	5,742.74
		12/17/2019	--	32.92	--	5,742.73
		3/12/2020	--	32.92	--	5,742.73
		6/25/2020	--	32.93	--	5,742.72
		9/23/2020	--	DRY	--	DRY
		3/31/2021	--	DRY	--	DRY
		6/14/2021	--	DRY	--	DRY
		9/24/2021	--	DRY	--	DRY
		12/1/2021	--	33.06	--	5,742.59
		3/1/2022	--	DRY	--	DRY
		6/7/2022	--	33.04	--	5,742.61
		9/29/2022	--	33.05	--	5,742.60
		12/8/2022	--	DRY	--	DRY
		3/2/2023	--	DRY	--	DRY
		6/16/2023	--	DRY	--	DRY
		9/15/2023	--	DRY	--	DRY
		12/14/2023	--	DRY	--	DRY
		3/27/2024	--	DRY	--	DRY
		3/27/2024	--	33.04	--	5,742.61
		9/25/2024	--	DRY	--	DRY
		12/9/2024	--	33.15	--	5,742.50
		3/20/2025	--	DRY	--	DRY
MW26	5,789.96	6/28/2019	--	19.71	--	5,770.25
		9/17/2019	--	19.64	--	5,770.32
		12/17/2019	--	19.41	--	5,770.55
		3/12/2020	--	19.29	--	5,770.67

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TABLE 6
GROUNDWATER ELEVATION
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Top of Casing Elevation (feet)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW26	5,789.96	6/25/2020	--	19.29	--	5,770.67
		9/23/2020	--	19.28	--	5,770.68
		3/31/2021	--	18.64	--	5,771.32
		6/14/2021	--	18.30	--	5,771.66
		9/24/2021	--	18.32	--	5,771.64
		12/3/2021	--	18.55	--	5,771.41
		3/1/2022	--	18.50	--	5,771.46
		6/7/2022	--	17.86	--	5,772.10
		9/29/2022	--	17.81	--	5,772.15
		12/8/2022	--	17.65	--	5,772.31
		3/2/2023	--	17.30	--	5,772.66
		6/16/2023	--	17.04	--	5,772.92
		9/14/2023	--	17.20	--	5,772.76
		12/14/2023	--	17.12	--	5,772.84
		3/27/2024	--	16.98	--	5,772.98
		6/3/2024	--	16.88	--	5,773.08
		9/25/2024	--	16.78	--	5,773.18
		12/10/2024	--	16.84	--	5,773.12
		3/21/2025	--	21.82	--	5,768.14

Notes:

AMSL: above mean sea level

BTOC: below top of casing

Trace: trace amounts of free product in well

--: not measured

A product density factor if 0.8 was used to account for the presence of free product

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW01	10/22/2018	No sample collected due to presence of PSH			
	3/29/2019	No sample collected due to presence of PSH			
	6/28/2019	No sample collected due to presence of PSH			
	9/17/2019	No sample collected due to presence of PSH			
	12/17/2019	No sample collected due to presence of PSH			
	3/12/2020	No sample collected due to presence of PSH			
	6/25/2020	No sample collected due to presence of PSH			
	9/23/2020	No sample collected due to presence of PSH			
	3/21/2021	No sample collected due to presence of PSH			
	6/14/2021	No sample collected due to presence of PSH			
	9/20/2021	27	39	1.3	15
	12/2/2021	No sample collected due to presence of PSH			
	3/1/2022	No sample collected due to presence of PSH			
	6/7/2022	No sample collected due to presence of PSH			
	9/29/2022	No sample collected due to presence of PSH			
	12/8/2022	No sample collected due to presence of PSH			
	3/2/2023	No sample collected due to presence of PSH			
	6/16/2023	No sample collected due to presence of PSH			
	9/15/2023	NS	NS	NS	NS
	12/14/2023	NS	NS	NS	NS
	3/27/2024	24	34	1.5	17
	6/4/2024	No sample collected due to presence of PSH			
	9/23/2024	No sample collected due to presence of PSH			
	12/10/2024	No sample collected due to presence of PSH			
	3/20/2025	No sample collected due to presence of PSH			
MW02	10/22/2018	14	7.1	1.2	12
	3/29/2019	No sample collected due to presence of PSH			
	6/28/2019	No sample collected due to presence of PSH			
	9/17/2019	No sample collected due to presence of PSH			
	12/17/2019	No sample collected due to presence of PSH			
	3/12/2020	17	8.2	1.8	15
	6/25/2020	19	18	2.3	21
	9/23/2020	17	16	2.8	25
	3/31/2021	16	12	2.0	20
	6/14/2021	No sample collected due to presence of PSH			
	9/20/2021	15	7.3	1.6	20
	12/3/2021	16	6.9	1.8	21
	3/1/2022	14	4.4	1.3	15
	6/7/2022	No sample collected due to presence of PSH			
	9/29/2022	16	2.6	1.6	16
	12/8/2022	16	2.5	1.9	18

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW02	3/2/2023	No sample collected due to presence of PSH			
	6/16/2023	No sample collected due to presence of PSH			
	9/15/2023	NS	NS	NS	NS
	12/14/2023	NS	NS	NS	NS
	3/27/2024	**14**	**3.6**	0.33	**6.8**
	6/4/2024	No sample collected due to presence of PSH			
	9/23/2024	No sample collected due to presence of PSH			
	12/10/2024	No sample collected due to presence of PSH			
	3/20/2025	No sample collected due to presence of PSH			
MW03	10/22/2018	Insufficient Water Volumes to Collect Sample			
	3/29/2019	**21**	0.110	0.27	**11**
	6/28/2019	Insufficient Water Volumes to Collect Sample			
	9/17/2019	**12**	0.25	0.22	**6.9**
	12/17/2019	Insufficient Water Volumes to Collect Sample			
	3/12/2020	**15**	<0.20	0.47	**6.3**
	6/25/2020	**14**	0.11	0.51	**1.5**
	9/23/2020	**14**	0.57	0.46	**3.5**
	3/31/2021	**13**	**1.3**	0.48	**1.7**
	6/14/2021	**12**	**1.8**	0.37	**4.9**
	9/23/2021	**13**	**4.2**	0.34	**8.2**
	12/3/2021	**16**	**2.3**	0.54	**5.5**
	3/1/2022	**16**	**2.2**	0.59	**6.0**
	6/7/2022	**16**	**2.6**	0.70	**6.6**
	9/29/2022	**17**	**1.0**	0.66	**6.4**
	12/8/2022	**17**	**1.0**	**0.73**	**6.8**
	3/2/2023	**17**	**1.1**	0.65	**5.6**
	6/16/2023	**16**	**1.8**	0.68	**6.2**
	9/15/2023	**18**	**1.0**	0.65	**5.8**
	12/14/2023	NS	NS	NS	NS
	3/27/2024	**9.2**	**5.5**	<0.20	**4.3**
	6/4/2024	**10**	**5.8**	<0.50	**4.4**
	9/23/2024	No sample collected due to presence of PSH			
	12/10/2024	No sample collected due to presence of PSH			
	3/21/2025	No sample collected due to presence of PSH			
MW04	10/22/2018	Insufficient Water Volumes to Collect Sample			
	3/29/2019	Insufficient Water Volumes to Collect Sample			
	6/28/2019	Insufficient Water Volumes to Collect Sample			
	9/17/2019	Insufficient Water Volumes to Collect Sample			
	12/17/2019	Insufficient Water Volumes to Collect Sample			
	3/12/2020	Insufficient Water Volumes to Collect Sample			
	6/25/2020	Insufficient Water Volumes to Collect Sample			

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW04	9/23/2020	Insufficient Water Volumes to Collect Sample			
	3/31/2021	1.1	<0.002	0.095	0.018
	6/14/2021	1.7	0.0035	0.11	0.020
	9/20/2021	0.83	0.045	0.051	0.14
	12/3/2021	1.3	<0.010	0.099	<0.020
	3/1/2022	0.91	<0.020	0.066	<0.040
	6/7/2022	0.24	<0.0010	<0.0010	<0.0020
	9/29/2022	1.5	<0.020	0.033	<0.030
	12/8/2022	No sample collected due to presence of PSH			
	3/2/2023	0.32	<0.008	<0.008	<0.016
	6/16/2023	No sample collected due to presence of PSH			
	9/15/2023	No sample collected due to presence of PSH			
	12/14/2023	No sample collected due to presence of PSH			
	3/27/2024	No sample collected due to presence of PSH			
	6/4/2024	0.31	<0.010	<0.010	<0.015
	9/23/2024	No sample collected due to presence of PSH			
	12/10/2024	No sample collected due to presence of PSH			
	3/21/2025	No sample collected due to presence of PSH			
MW05	10/22/2018	Insufficient Water Volumes to Collect Sample			
	3/29/2019	10	0.88	0.45	2.9
	6/28/2019	5.9	0.16	0.20	1.4
	9/17/2019	5.0	0.77	0.11	3.1
	12/17/2019	5.4	0.14	0.15	2.6
	3/12/2020	4.4	0.13	0.18	1.0
	6/25/2020	5.0	0.17	0.087	0.70
	9/23/2020	3.9	1.1	0.26	4.2
	3/31/2021	2.5	6.0	0.73	15
	6/14/2021	4.4	1.8	0.55	18
	9/20/2021	3.5	4.0	0.80	20
	12/3/2021	3.6	3.5	0.72	19
	3/1/2022	2.9	0.81	0.62	13
	6/7/2022	No sample collected due to presence of PSH			
	9/29/2022	No sample collected due to presence of PSH			
	12/8/2022	No sample collected due to presence of PSH			
	3/2/2023	No sample collected due to presence of PSH			
	6/16/2023	No sample collected due to presence of PSH			
	9/15/2023	No sample collected due to presence of PSH			
	12/14/2023	No sample collected due to presence of PSH			
	3/27/2024	No sample collected due to presence of PSH			
	6/3/2024	No sample collected due to presence of PSH			
	9/23/2024	No sample collected due to presence of PSH			

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW05	12/10/2024	No sample collected due to presence of PSH			
	3/21/2025	No sample collected due to presence of PSH			
MW06	10/22/2018	No sample collected due to presence of PSH			
	3/29/2019	No sample collected due to presence of PSH			
	6/28/2019	No sample collected due to presence of PSH			
	9/17/2019	No sample collected due to presence of PSH			
	12/17/2019	No sample collected due to presence of PSH			
	3/12/2020	**19**	**25**	**1.3**	**14**
	6/25/2020	**20**	**31**	**1.5**	**17**
	9/23/2020	**16**	**24**	**1.5**	**18**
	3/31/2021	**16**	**21**	**1.7**	**21**
	9/24/2021	No sample collected due to presence of PSH			
	9/20/2021	**14**	**19**	**1.3**	**16**
	12/3/2021	**13**	**19**	**1.3**	**17**
	3/1/2022	**13**	**20**	**1.3**	**18**
	6/7/2022	**11**	**15**	**1.1**	**16**
	9/29/2022	No sample collected due to presence of PSH			
	12/8/2022	No sample collected due to presence of PSH			
	3/2/2023	No sample collected due to presence of PSH			
	6/16/2023	No sample collected due to presence of PSH			
	9/15/2023	No sample collected due to presence of PSH			
	12/14/2023	NS	NS	NS	NS
	3/27/2024	**2.9**	**3.1**	0.59	**8.7**
	6/3/2024	No sample collected due to presence of PSH			
	9/23/2024	No sample collected due to presence of PSH			
	12/10/2024	No sample collected due to presence of PSH			
	3/21/2025	No sample collected due to presence of PSH			
MW07	10/22/2018	Well Damaged, No Sample Collected			
	3/29/2019	Well Damaged, No Sample Collected			
	6/28/2019	Well Damaged, No Sample Collected			
	9/17/2019	Well Damaged, No Sample Collected			
	12/17/2019	Well Damaged, No Sample Collected			
	3/12/2020	Well Damaged, No Sample Collected			
	6/25/2020	Well Damaged, No Sample Collected			
	9/23/2020	Well Damaged, No Sample Collected			
	3/31/2021	Well Damaged, No Sample Collected			
	6/14/2021	Well Damaged, No Sample Collected			
	9/20/2021	Well Damaged, No Sample Collected			
	12/3/2021	Well Damaged, No Sample Collected			
	3/1/2022	Well Damaged, No Sample Collected			

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
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San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW07	6/7/2022	Well Damaged, No Sample Collected			
	9/29/2022	Well Damaged, No Sample Collected			
	12/8/2022	Well Damaged, No Sample Collected			
	3/2/2023	Well Damaged, No Sample Collected			
	6/16/2023	Well Damaged, No Sample Collected			
	9/15/2023	Well Damaged, No Sample Collected			
	12/14/2023	Well Damaged, No Sample Collected			
	3/27/2024	Well Damaged, No Sample Collected			
	6/3/2024	Well Damaged, No Sample Collected			
	9/23/2024	Well Damaged, No Sample Collected			
	12/10/2024	Well Damaged, No Sample Collected			
	3/21/2025	Well Damaged, No Sample Collected			
MW08	10/22/2018	Insufficient Water Volumes to Collect Sample			
	3/29/2019	Insufficient Water Volumes to Collect Sample			
	6/28/2019	<0.0010	<0.0010	<0.0010	<0.0020
	9/17/2019	<0.0010	<0.0010	<0.0010	<0.0020
	3/12/2020	<0.0010	<0.0010	<0.0010	0.0017
	6/25/2020	<0.0010	<0.0010	<0.0010	<0.0015
	9/23/2020	<0.0010	<0.0010	<0.0010	<0.0015
	3/31/2021	<0.0010	<0.0010	<0.0010	<0.0015
	6/14/2021	<0.0010	<0.0010	<0.0010	<0.0015
	9/23/2021	<0.0010	<0.0010	<0.0010	<0.0020
	12/2/2021	<0.0010	<0.0010	<0.0010	<0.0020
	3/1/2022	<0.0010	<0.0010	<0.0010	<0.0020
	6/7/2022	<0.0010	<0.0010	<0.0010	<0.0020
	9/29/2022	<0.0010	<0.0010	<0.0010	<0.0015
	12/8/2022	<0.0010	<0.0010	<0.0010	<0.0015
	3/2/2023	<0.0010	<0.0010	<0.0010	<0.0020
	6/16/2023	<0.0010	<0.0010	<0.0010	<0.0020
	9/14/2023	<0.0010	<0.0010	<0.0010	<0.0020
	12/14/2023	<0.0010	<0.0010	<0.0010	<0.0020
	3/27/2024	<0.0010	<0.0010	<0.0010	<0.0015
	6/3/2024	<0.0010	<0.0010	<0.0010	<0.0015
	9/23/2024	<0.0010	<0.0010	<0.0010	<0.0015
	12/10/2024	<0.0010	<0.0010	<0.0010	<0.0015
	3/21/2025	**No sample collected due to presence of PSH**			
MW09	10/22/2018	Insufficient Water Volumes to Collect Sample			
	3/29/2019	Insufficient Water Volumes to Collect Sample			
	6/28/2019	Insufficient Water Volumes to Collect Sample			
	9/17/2019	Insufficient Water Volumes to Collect Sample			

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		**0.005**	**1.0**	**0.7**	**0.62**
MW09	12/17/2019	Insufficient Water Volumes to Collect Sample			
	3/12/2020	Insufficient Water Volumes to Collect Sample			
	6/25/2020	Insufficient Water Volumes to Collect Sample			
	9/23/2020	Insufficient Water Volumes to Collect Sample			
	3/31/2021	Insufficient Water Volumes to Collect Sample			
	6/14/2021	Insufficient Water Volumes to Collect Sample			
	9/20/2021	Insufficient Water Volumes to Collect Sample			
	12/3/2021	Insufficient Water Volumes to Collect Sample			
	3/1/2022	Insufficient Water Volumes to Collect Sample			
	6/7/2022	Insufficient Water Volumes to Collect Sample			
	9/29/2022	Insufficient Water Volumes to Collect Sample			
	12/8/2022	Insufficient Water Volumes to Collect Sample			
	3/2/2023	Insufficient Water Volumes to Collect Sample			
	6/16/2023	**0.021**	0.027	0.0019	0.015
	9/15/2023	**1.1**	0.0036	0.078	**1.4**
	12/15/2023	**1.1**	<0.010	0.096	0.29
	3/28/2024	**1.0**	<0.010	0.087	<0.015
	6/3/2024	Insufficient Water Volumes to Collect Sample			
	9/23/2024	Insufficient Water Volumes to Collect Sample			
	12/10/2024	Insufficient Water Volumes to Collect Sample			
	3/20/2025	**1.1**	<0.010	0.071	<0.015
MW10	10/22/2018	**22**	**21**	**1.6**	**13**
	3/29/2019	**No sample collected due to presence of PSH**			
	6/28/2019	**No sample collected due to presence of PSH**			
	9/17/2019	**No sample collected due to presence of PSH**			
	12/17/2019	**No sample collected due to presence of PSH**			
	3/12/2020	**No sample collected due to presence of PSH**			
	6/25/2020	**No sample collected due to presence of PSH**			
	9/23/2020	**No sample collected due to presence of PSH**			
	3/31/2021	**No sample collected due to presence of PSH**			
	6/14/2021	**No sample collected due to presence of PSH**			
	9/23/2021	**19**	**4.8**	**1.4**	**15**
	12/3/2021	**21**	**5.8**	**1.4**	**14**
	3/1/2022	**20**	**5.6**	**1.4**	**13**
	6/7/2022	**No sample collected due to presence of PSH**			
	9/29/2022	**No sample collected due to presence of PSH**			
	12/8/2022	**No sample collected due to presence of PSH**			
	3/2/2023	**No sample collected due to presence of PSH**			
	6/16/2023	**No sample collected due to presence of PSH**			
	9/15/2023	**No sample collected due to presence of PSH**			
	12/14/2023	NS	NS	NS	NS

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW10	3/27/2024	**13**	<0.5	**1.4**	**7.8**
	6/3/2024	Insufficient Water Volumes to Collect Sample			
	9/23/2024	**No sample collected due to presence of PSH**			
	12/10/2024	**No sample collected due to presence of PSH**			
	3/20/2025	**No sample collected due to presence of PSH**			
MW11	10/22/2018	<0.0010	<0.0010	<0.0010	<0.0015
	3/29/2019	0.0036	<0.0010	<0.0010	<0.0015
	6/28/2019	<0.0010	<0.0010	<0.0010	<0.0015
	9/17/2019	<0.0010	<0.0010	<0.0010	<0.002
	12/17/2019	NS	NS	NS	NS
	3/12/2020	0.001	0.0011	<0.0010	0.0051
	6/25/2020	<0.0010	<0.0010	<0.0010	<0.0015
	9/23/2020	<0.0010	<0.0010	<0.0010	<0.0015
	3/31/2021	<0.0010	<0.0010	<0.0010	<0.0015
	6/14/2021	<0.0010	<0.0010	<0.0010	<0.0015
	9/23/2021	<0.0010	<0.0010	<0.0010	<0.002
	12/2/2021	<0.0010	<0.0010	<0.0010	<0.002
	3/1/2022	<0.0010	<0.0010	<0.0010	<0.002
	6/7/2022	<0.0010	<0.0010	<0.0010	<0.002
	9/29/2022	<0.0010	<0.0010	<0.0010	<0.0015
	12/8/2022	<0.0010	<0.0010	<0.0010	<0.0015
	3/2/2023	<0.0010	<0.0010	<0.0010	<0.0020
	6/16/2023	<0.0010	<0.0010	<0.0010	<0.0020
	9/14/2023	<0.0010	<0.0010	<0.0010	<0.0020
	12/14/2023	<0.0010	<0.0010	<0.0010	<0.0020
	3/28/2024	<0.0010	<0.0010	<0.0010	<0.0015
	6/3/2024	<0.0010	<0.0010	<0.0010	<0.0015
	9/23/2024	<0.0010	<0.0010	<0.0010	<0.0015
	12/9/2024	<0.0010	<0.0010	<0.0010	<0.0015
	3/21/2025	<0.0010	0.0033	<0.0010	0.0022
MW12	10/22/2018	**2.4**	**3.8**	**1.1**	**5.0**
	3/29/2019	**0.87**	0.018	**1.2**	**1.5**
	6/28/2019	**0.81**	0.055	**1.0**	0.50
	9/17/2019	**0.92**	0.12	**1.1**	0.41
	12/17/2019	**0.94**	0.034	0.46	0.24
	3/12/2020	**1.6**	0.360	0.48	0.55
	6/25/2020	**0.71**	0.220	<0.02	0.34
	9/23/2020	**0.89**	0.087	0.22	0.12
	3/31/2021	**0.69**	0.051	0.14	0.054
	6/14/2021	**0.37**	0.0052	0.072	0.012
	12/2/2021	NS	NS	NS	NS

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Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW12	12/2/2021	**0.37**	<0.0050	0.110	<0.010
	3/1/2022	**0.24**	<0.0020	0.031	<0.0040
	6/7/2022	**0.11**	<0.0010	0.016	0.0030
	9/29/2022	**0.046**	<0.0050	0.014	<0.0075
	12/8/2022	**0.041**	<0.020	<0.020	<0.030
	3/2/2023	**0.043**	0.0010	0.0036	0.0032
	6/16/2023	**0.052**	<0.0010	0.0057	0.0029
	9/14/2023	**0.048**	<0.0010	0.0056	<0.0020
	12/14/2023	**0.0053**	<0.0010	0.0011	<0.0020
	3/28/2024	**0.036**	<0.0010	<0.0010	<0.0015
	6/3/2024	**0.0093**	<0.0020	<0.0020	<0.0030
	9/23/2024	**0.015**	<0.0010	<0.0010	<0.0015
	12/9/2024	**0.0066**	<0.0010	0.0043	0.0095
	3/21/2025	**0.022**	0.0017	0.0042	0.0160
MW14	10/22/2018	**13**	**26**	**1.1**	**10**
	3/29/2019	**No sample collected due to presence of PSH**			
	6/28/2019	**No sample collected due to presence of PSH**			
	9/17/2019	**No sample collected due to presence of PSH**			
	12/17/2019	NS	NS	NS	NS
	3/12/2020	**13**	**13**	**1.3**	**14**
	6/25/2020	**11**	**17**	**1.0**	**15**
	9/23/2020	**8.2**	**14**	**0.80**	**16**
	3/31/2021	**9.4**	**17**	**1.5**	**18**
	6/14/2021	**No sample collected due to presence of PSH**			
	9/24/2021	**7.1**	**9.2**	**0.80**	**14**
	12/3/2021	**6.5**	**7.6**	**1.2**	**15**
	3/1/2022	**5.3**	**5.7**	**1.2**	**14**
	6/7/2022	**No sample collected due to presence of PSH**			
	9/29/2022	**4.3**	**1.3**	**1.1**	**6.3**
	12/8/2022	**3.8**	**1.8**	**1.6**	**9.5**
	3/2/2023	**No sample collected due to presence of PSH**			
	6/16/2023	**No sample collected due to presence of PSH**			
	9/15/2023	**No sample collected due to presence of PSH**			
	12/14/2023	**No sample collected due to presence of PSH**			
	3/28/2024	**No sample collected due to presence of PSH**			
	6/3/2024	**No sample collected due to presence of PSH**			
	9/23/2024	**No sample collected due to presence of PSH**			
	12/9/2024	**No sample collected due to presence of PSH**			
	3/21/2025	**No sample collected due to presence of PSH**			

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
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Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW15	3/29/2019	Insufficient Water Volumes to Collect Sample			
	6/28/2019	24	28	1.1	10
	9/17/2019	24	28	0.87	9.4
	12/17/2019	23	29	0.64	10
	3/12/2020	23	4.5	0.66	9.4
	6/25/2020	28	1.0	0.47	8.6
	9/23/2020	21	1.2	0.61	8.6
	3/31/2021	25	0.6	0.69	8.5
	6/14/2021	26	0.42	0.60	8.9
	9/23/2021	22	0.82	0.57	6.6
	12/3/2021	24	1.0	0.56	4.1
	3/1/2022	23	3.4	0.65	4.4
	6/7/2022	22	3.9	0.50	2.9
	9/29/2022	24	7.5	0.64	4.6
	12/8/2022	25	4.9	0.54	4.8
	3/2/2023	21	6.0	0.61	4.6
	6/16/2023	21	7.6	0.47	3.5
	9/14/2023	29	10	0.59	4.3
	12/14/2023	NS	NS	NS	NS
	3/27/2024	14	1.0	<0.500	1.8
	6/4/2024	9.8	1.9	0.140	1.5
	9/25/2024	20	6.5	<0.500	2.7
	12/9/2024	No sample collected due to presence of PSH			
	3/21/2025	No sample collected due to presence of PSH			
MW16	3/29/2019	7.7	14	0.94	8.6
	6/28/2019	3.4	0.62	0.080	2.1
	9/17/2019	3.3	1.6	0.037	4.4
	12/17/2019	2.3	0.23	0.039	1.8
	3/12/2020	2.3	0.83	<0.050	3.8
	6/25/2020	2.1	0.34	0.051	3.3
	9/23/2020	1.4	0.23	0.075	3.6
	3/31/2021	No sample collected due to presence of PSH			
	6/14/2021	No sample collected due to presence of PSH			
	9/23/2021	0.32	0.62	0.71	17
	12/3/2021	No sample collected due to presence of PSH			
	3/1/2022	0.56	<0.020	0.43	6.4
	6/7/2022	0.29	<0.010	0.54	6.5
	9/29/2022	No sample collected due to presence of PSH			
	12/8/2022	0.15	<0.050	0.38	2.1
	3/2/2023	0.11	<0.020	0.32	1.8
	6/16/2023	0.10	<0.050	0.34	1.1

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GROUNDWATER ANALYTICAL RESULTS
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Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW16	9/14/2023	**0.13**	<0.050	0.41	**1.2**
	12/15/2023	**0.089**	<0.020	0.38	0.49
	3/28/2024	**0.077**	<0.020	0.34	0.31
	6/3/2024	**0.068**	<0.010	0.27	0.27
	9/25/2024	**0.13**	<0.020	0.28	0.085
	12/9/2024	**0.062**	<0.020	0.21	0.077
	3/20/2025	**0.093**	<0.020	0.140	0.110
MW17	3/29/2019	Insufficient Water Volumes to Collect Sample			
	6/28/2019	Insufficient Water Volumes to Collect Sample			
	9/17/2019	Insufficient Water Volumes to Collect Sample			
	12/17/2019	Insufficient Water Volumes to Collect Sample			
	3/12/2020	Insufficient Water Volumes to Collect Sample			
	6/25/2020	Insufficient Water Volumes to Collect Sample			
	9/23/2020	Insufficient Water Volumes to Collect Sample			
	3/31/2021	Insufficient Water Volumes to Collect Sample			
	6/14/2021	Insufficient Water Volumes to Collect Sample			
	9/23/2021	Insufficient Water Volumes to Collect Sample			
	12/3/2021	Insufficient Water Volumes to Collect Sample			
	3/1/2022	Insufficient Water Volumes to Collect Sample			
	6/7/2022	Insufficient Water Volumes to Collect Sample			
	9/29/2022	Insufficient Water Volumes to Collect Sample			
	12/8/2022	Insufficient Water Volumes to Collect Sample			
	3/2/2023	<0.002	<0.002	<0.002	<0.004
	6/16/2023	<0.0010	<0.0010	<0.0010	<0.0020
	9/14/2023	<0.0010	<0.0010	<0.0010	<0.0020
	12/15/2023	<0.0010	<0.0010	<0.0010	<0.0020
	3/27/2024	<0.0010	<0.0010	<0.0010	<0.0015
	6/3/2024	<0.0010	<0.0010	<0.0010	<0.0015
	9/25/2024	<0.0010	<0.0010	<0.0010	<0.0015
	12/9/2024	<0.0010	<0.0010	<0.0010	<0.0015
	3/20/2025	<0.0010	<0.0010	<0.0010	<0.0015
MW18	3/29/2019	**No sample collected due to presence of PSH**			
	6/28/2019	**15**	**18**	**0.77**	**9.4**
	9/17/2019	**16**	**23**	**0.87**	**9.8**
	12/17/2019	**17**	**19**	**0.78**	**10**
	3/12/2020	**1.2**	0.36	0.059	**0.72**
	6/25/2020	**13**	<0.2	0.56	**6.0**
	9/23/2020	**8.4**	<0.05	0.32	**4.20**
	3/31/2021	**11.0**	0.011	0.31	**1.70**
	6/14/2021	**8.5**	<.01	0.28	0.62

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
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San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW18	9/24/2021	**5.3**	<0.050	0.37	<0.100
	12/2/2021	**9.9**	<0.0020	0.61	<0.0040
	3/1/2022	**8.0**	<0.008	0.45	<0.016
	6/7/2022	**6.6**	<0.010	0.38	<0.020
	9/29/2022	**6.4**	<0.020	0.35	<0.030
	12/8/2022	**6.7**	<0.050	0.36	<0.075
	3/2/2023	**4.2**	<0.020	0.19	<0.040
	6/16/2023	**1.5**	<0.020	0.052	<0.040
	9/14/2023	**5.9**	<0.050	0.28	<0.100
	12/14/2023	**5.5**	<0.020	0.33	<0.040
	3/27/2024	**0.067**	<0.020	0.15	<0.030
	6/3/2024	**1.4**	<0.010	0.27	<0.015
	9/25/2024	**0.084**	<0.020	<0.020	<0.030
	12/9/2024	**0.041**	<0.020	<0.020	0.0042
	3/21/2025	**0.440**	<0.0050	<0.0050	<0.0075
MW19	3/29/2019	**14**	**10**	**0.93**	**6.2**
	6/28/2019	**13**	0.230	**0.90**	**4.9**
	9/17/2019	**17**	0.44	**1.1**	**5.8**
	12/17/2019	**11**	0.88	**0.76**	**3.4**
	3/12/2020	**10**	**1.60**	**0.76**	**2.4**
	6/25/2020	**16**	**5.40**	**0.95**	**3.4**
	9/23/2020	**12**	**4.10**	**0.73**	**2.8**
	3/31/2021	**16**	**8.5**	**1.1**	**4.7**
	6/14/2021	**15**	**10**	**1.0**	**5.1**
	9/23/2021	**14**	**9.9**	**1.1**	**4.8**
	12/2/2021	**15**	**10**	**1.1**	**5.2**
	3/1/2022	**13**	**9.6**	**1.1**	**5.2**
	6/7/2022	**12**	**10**	**1.1**	**5.4**
	9/29/2022	**13**	**12**	**1.1**	**6.2**
	12/8/2022	**12**	**14**	**1.3**	**7.8**
	3/2/2023	**10**	**12**	**1.0**	**6.1**
	6/16/2023	**10**	**14**	**1.2**	**7.2**
	9/14/2023	**9.7**	**15**	**1.2**	**8.2**
	12/14/2023	**7.7**	**14**	**1.3**	**8.1**
	3/28/2024	**6.7**	**17**	**1.1**	**9.2**
	6/3/2024	**5.8 P2**	**17 P2**	0.4 P2	**8.8 P2**
	9/25/2024	**6.5**	**13**	**1.1**	**8.7**
	12/10/2024	**5.2**	**18**	**1.3**	**9.5**
	3/21/2025	**6.0**	**18**	**1.2**	**9.9**

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
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Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW20	3/29/2019	Insufficient Water Volumes to Collect Sample			
	6/28/2019	Insufficient Water Volumes to Collect Sample			
	9/17/2019	Insufficient Water Volumes to Collect Sample			
	12/17/2019	Insufficient Water Volumes to Collect Sample			
	3/12/2020	Insufficient Water Volumes to Collect Sample			
	6/25/2020	Insufficient Water Volumes to Collect Sample			
	9/23/2020	Insufficient Water Volumes to Collect Sample			
	3/31/2021	Insufficient Water Volumes to Collect Sample			
	6/14/2021	Insufficient Water Volumes to Collect Sample			
	9/23/2021	Insufficient Water Volumes to Collect Sample			
	12/3/2021	Insufficient Water Volumes to Collect Sample			
	3/1/2022	Insufficient Water Volumes to Collect Sample			
	6/7/2022	Insufficient Water Volumes to Collect Sample			
	9/29/2022	Insufficient Water Volumes to Collect Sample			
	12/8/2022	Insufficient Water Volumes to Collect Sample			
	3/2/2023	Insufficient Water Volumes to Collect Sample			
	6/16/2023	Insufficient Water Volumes to Collect Sample			
	9/14/2023	Insufficient Water Volumes to Collect Sample			
	12/14/2023	Insufficient Water Volumes to Collect Sample			
	3/27/2024	Insufficient Water Volumes to Collect Sample			
	6/3/2024	Insufficient Water Volumes to Collect Sample			
	9/25/2024	Insufficient Water Volumes to Collect Sample			
	12/9/2024	Insufficient Water Volumes to Collect Sample			
	3/20/2025	Insufficient Water Volumes to Collect Sample			
MW21	3/29/2019	Insufficient Water Volumes to Collect Sample			
	6/28/2019	Insufficient Water Volumes to Collect Sample			
	9/17/2019	Insufficient Water Volumes to Collect Sample			
	12/17/2019	Insufficient Water Volumes to Collect Sample			
	3/12/2020	Insufficient Water Volumes to Collect Sample			
	6/25/2020	Insufficient Water Volumes to Collect Sample			
	9/23/2020	Insufficient Water Volumes to Collect Sample			
	3/31/2021	Insufficient Water Volumes to Collect Sample			
	6/14/2021	Insufficient Water Volumes to Collect Sample			
	9/23/2021	Insufficient Water Volumes to Collect Sample			
	12/3/2021	Insufficient Water Volumes to Collect Sample			
	3/1/2022	Insufficient Water Volumes to Collect Sample			
	6/7/2022	Insufficient Water Volumes to Collect Sample			
	9/29/2022	Insufficient Water Volumes to Collect Sample			
	12/8/2022	Insufficient Water Volumes to Collect Sample			
	3/2/2023	Insufficient Water Volumes to Collect Sample			
	6/16/2023	Insufficient Water Volumes to Collect Sample			

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TABLE 7
GROUNDWATER ANALYTICAL RESULTS
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Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW21	9/14/2023	Insufficient Water Volumes to Collect Sample			
	12/14/2023	Insufficient Water Volumes to Collect Sample			
	3/27/2024	Insufficient Water Volumes to Collect Sample			
	6/3/2024	Insufficient Water Volumes to Collect Sample			
	9/25/2024	Insufficient Water Volumes to Collect Sample			
	12/9/2024	Insufficient Water Volumes to Collect Sample			
	3/20/2025	Insufficient Water Volumes to Collect Sample			
MW22	3/29/2019	0.001	0.002	<0.001	0.002
	6/28/2019	<0.001	<0.001	<0.001	<0.002
	9/17/2019	<0.001	<0.001	<0.001	<0.002
	12/17/2019	NS	NS	NS	NS
	3/12/2020	0.0011	0.0012	<0.001	0.0067
	6/25/2020	<0.001	<0.001	<0.001	0.0032
	9/23/2020	<0.001	<0.001	<0.001	<0.0015
	3/31/2021	<0.001	<0.001	<0.001	<0.0015
	6/14/2021	<0.001	<0.001	<0.001	<0.0015
	9/23/2021	<0.001	<0.001	<0.001	<0.002
	12/2/2021	<0.001	<0.001	<0.001	<0.002
	3/1/2022	<0.001	<0.001	<0.001	<0.002
	6/7/2022	<0.001	<0.001	<0.001	<0.002
	9/29/2022	<0.001	<0.001	<0.001	<0.0015
	12/8/2022	<0.002	<0.002	<0.002	<0.003
	3/2/2023	<0.002	<0.002	<0.002	<0.004
	6/16/2023	<0.0020	<0.0020	<0.0020	<0.0040
	9/14/2023	<0.0010	<0.0010	<0.0010	<0.0020
	12/14/2023	<0.0010	<0.0010	<0.0010	<0.0020
	3/28/2024	<0.0010	<0.0010	<0.0010	<0.0015
	6/3/2024	<0.0010	<0.0010	<0.0010	<0.0015
	9/23/2024	<0.0010	<0.0010	<0.0010	<0.0015
	12/9/2024	<0.0010	<0.0010	<0.0010	<0.0015
	3/21/2025	<0.0010	<0.0010	<0.0010	<0.0015
MW23	6/18/2019	<0.001	<0.001	<0.001	<0.002
	9/17/2019	<0.001	<0.001	<0.001	<0.002
	12/17/2019	NS	NS	NS	NS
	3/12/2020	<0.001	<0.001	<0.001	<0.0015
	6/25/2020	<0.001	<0.001	<0.001	<0.0015
	9/23/2020	<0.001	<0.001	<0.001	<0.0015
	3/31/2021	<0.001	<0.001	<0.001	<0.0015
	6/14/2021	<0.001	<0.001	<0.001	<0.0015
	9/23/2021	Insufficient Water Volumes to Collect Sample			
	12/3/2021	<0.001	<0.001	<0.001	<0.002

ENSOLUM

TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW23	3/1/2022	<0.001	<0.001	<0.001	<0.002
	6/7/2022	<0.001	<0.001	<0.001	<0.002
	9/29/2022	<0.001	<0.001	<0.001	<0.0015
	12/8/2022	<0.002	<0.002	<0.002	<0.003
	3/2/2023	<0.002	<0.002	<0.002	<0.004
	6/16/2023	<0.0020	<0.0020	<0.0020	<0.0040
	9/15/2023	<0.001	<0.001	<0.001	<0.002
	12/14/2023	<0.001	<0.001	<0.001	<0.002
	3/27/2024	<0.001	<0.001	<0.001	<0.0015
	6/3/2024	<0.001	<0.001	<0.001	<0.0015
	9/25/2024	<0.0010	<0.0010	<0.0010	<0.0015
	12/10/2024	<0.0010	<0.0010	<0.0010	<0.0015
	3/21/2025	<0.0010	<0.0010	<0.0010	<0.0015
MW24	6/28/2019	Insufficient Water Volumes to Collect Sample			
	9/17/2019	Insufficient Water Volumes to Collect Sample			
	12/17/2019	Insufficient Water Volumes to Collect Sample			
	3/12/2020	Insufficient Water Volumes to Collect Sample			
	6/25/2020	Insufficient Water Volumes to Collect Sample			
	9/23/2020	Insufficient Water Volumes to Collect Sample			
	3/31/2021	Insufficient Water Volumes to Collect Sample			
	6/14/2021	Insufficient Water Volumes to Collect Sample			
	9/23/2021	Insufficient Water Volumes to Collect Sample			
	12/3/2021	Insufficient Water Volumes to Collect Sample			
	3/1/2022	Insufficient Water Volumes to Collect Sample			
	6/7/2022	Insufficient Water Volumes to Collect Sample			
	9/29/2022	Insufficient Water Volumes to Collect Sample			
	12/8/2022	Insufficient Water Volumes to Collect Sample			
	3/2/2023	Insufficient Water Volumes to Collect Sample			
	6/16/2023	Insufficient Water Volumes to Collect Sample			
	9/14/2023	Insufficient Water Volumes to Collect Sample			
	12/14/2023	Insufficient Water Volumes to Collect Sample			
	3/27/2024	Insufficient Water Volumes to Collect Sample			
	6/3/2024	Insufficient Water Volumes to Collect Sample			
	9/25/2024	Insufficient Water Volumes to Collect Sample			
	12/9/2024	Insufficient Water Volumes to Collect Sample			
	3/20/2025	Insufficient Water Volumes to Collect Sample			
MW25	6/28/2019	Insufficient Water Volumes to Collect Sample			
	9/17/2019	Insufficient Water Volumes to Collect Sample			
	12/17/2019	Insufficient Water Volumes to Collect Sample			
	3/12/2020	Insufficient Water Volumes to Collect Sample			

ENSOLUM

TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		0.005	1.0	0.7	0.62
MW25	6/25/2020	Insufficient Water Volumes to Collect Sample			
	9/23/2020	Insufficient Water Volumes to Collect Sample			
	3/31/2021	Insufficient Water Volumes to Collect Sample			
	6/14/2021	Insufficient Water Volumes to Collect Sample			
	9/23/2021	Insufficient Water Volumes to Collect Sample			
	12/3/2021	Insufficient Water Volumes to Collect Sample			
	3/1/2022	Insufficient Water Volumes to Collect Sample			
	6/7/2022	Insufficient Water Volumes to Collect Sample			
	9/29/2022	Insufficient Water Volumes to Collect Sample			
	12/8/2022	Insufficient Water Volumes to Collect Sample			
	3/2/2023	Insufficient Water Volumes to Collect Sample			
	6/16/2023	Insufficient Water Volumes to Collect Sample			
	9/14/2023	Insufficient Water Volumes to Collect Sample			
	12/14/2023	Insufficient Water Volumes to Collect Sample			
	3/27/2024	Insufficient Water Volumes to Collect Sample			
	6/3/2024	Insufficient Water Volumes to Collect Sample			
	9/25/2024	Insufficient Water Volumes to Collect Sample			
	12/9/2024	Insufficient Water Volumes to Collect Sample			
	3/20/2025	Insufficient Water Volumes to Collect Sample			
MW26	6/18/2019	**0.0052**	<0.001	<0.001	<0.002
	9/17/2019	<0.001	<0.001	<0.001	<0.002
	12/17/2019	<0.001	<0.001	<0.001	<0.002
	3/12/2020	<0.001	<0.001	<0.001	<0.0015
	6/25/2020	<0.001	<0.001	<0.001	<0.0015
	9/23/2020	<0.001	<0.001	<0.001	<0.0015
	3/31/2021	<0.001	<0.001	<0.001	<0.0015
	6/14/2021	<0.001	<0.001	<0.001	<0.0015
	9/24/2021	<0.001	<0.001	<0.001	<0.002
	12/3/2021	<0.001	<0.001	<0.001	<0.002
	3/1/2022	<0.001	<0.001	<0.001	<0.002
	6/7/2022	<0.001	<0.001	<0.001	<0.002
	9/29/2022	<0.001	<0.001	<0.001	<0.0015
	12/8/2022	<0.001	<0.001	<0.001	<0.0015
	3/2/2023	<0.001	<0.001	<0.001	<0.002
	6/16/2023	<0.0010	<0.0010	<0.0010	<0.0020
	9/14/2023	<0.0010	<0.0010	<0.0010	<0.0020
	12/14/2023	<0.0010	<0.0010	<0.0010	<0.0020
	3/27/2024	<0.0010	<0.0010	<0.0010	<0.0015
	6/3/2024	<0.0010	<0.0010	<0.0010	<0.0015
	9/25/2024	<0.0010	<0.0010	<0.0010	<0.0015
	12/10/2024	<0.0010	<0.0010	<0.0010	<0.0015

ENSOLUM

TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Standard #1
Hilcorp Energy Company
San Juan County, New Mexico

Monitoring Well	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard		**0.005**	**1.0**	**0.7**	**0.62**
MW26	3/20/2025	Insufficient Water Volumes to Collect Sample			

Notes:

mg/L: milligrams per liter

NMWQCC: New Mexico Water Quality Control Commission

NS: not sampled

P2: sample received with pH > 2

PSH: phase separated hydrocarbon

< : 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

ENSOLUM

APPENDIX A

O&M Field Notes

STANDARD 1A DPE SYSTEM
O&M FORM

DATE: 1-13
TIME ONSITE:

O&M PERSONNEL: B Sinclair
TIME OFFSITE:

SVE SYSTEM - MONTHLY O&M

DPE ALARMS: KO TANK HIGH LEVEL

DPE SYSTEM	READING	TIME
Blower Hours **(photo)**	8598.9	1308
Transfer Pump Hours **(photo)**	137.9	
Influent Vacuum Pre-KO (InHg)	10.2	
Fresh Air Bypass (% Open)	15	
Pre-Filter Vacuum (InHg)	11.0	
Post-Filter Vacuum (InHg)	8.5	
Differential Pressure (IWC)	2.5	
Exhaust Temperature (°F)	145	
Exhaust PID (ppm)	16.5	
Transfer Pump Pressure (PSI)	11.5	
Transfer Pump Totalizer (Gal) **(photo)**	129848.9	

NOTES

SVE SYSTEM SAMPLING

SAMPLE ID: **SAMPLE TIME:**
PID (ppm) 107.9 **OXYGEN (%)** 20.9 **CARBON DIOXIDE (%)** ~~%~~ ppm 1160
Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), 8260 - Full List VOCs, Fixed Gas (CO2 AND O2)

OPERATING WELLS

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE ~~(%)~~ ppm
MW01	59.1	28.8	20.2	4800
MW02	101.2	62.8	20.9	1220
MW03	90.5	21.4	20.9	40
MW06	114.6	16.6	20.9	260
MW10	47.3	39.6	20.9	740
MW15	125.1	19.5	20.9	20

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (InHg)	SEE LIQUIDS? (YES/NO)	DIFF. PRESS. (IWC)
MW01	7.0	N	-15.92
MW02	8.5	|	UnFl
MW03	8.0	|	0.07
MW06	9.5	|	1.34
MW10	7.75	|	-0.32
MW15	8.25	|	-0.65

INFLUENCE

WELL ID	VACUUM (IWC)
MW04	0
MW07	0

COMMENTS/MAINTENANCE ISSUES

ENSOLUM

STANDARD 1A DPE SYSTEM
O&M FORM

DATE: 1-23
TIME ONSITE:

O&M PERSONNEL: B Sinclair
TIME OFFSITE:

SVE SYSTEM - MONTHLY O&M

DPE ALARMS: KO TANK HIGH LEVEL

DPE SYSTEM	READING	TIME
Blower Hours **(photo)**	8838.2	1225
Transfer Pump Hours **(photo)**	138.2	
Influent Vacuum Pre-KO (InHg)	10.4	
Fresh Air Bypass (% Open)	10	
Pre-Filter Vacuum (InHg)	11.75	
Post-Filter Vacuum (InHg)	10.0	
Differential Pressure (IWC)	2.5	
Exhaust Temperature (°F)	147.5	
Exhaust PID (ppm)	15.8	
Transfer Pump Pressure (PSI)	11.0	
Transfer Pump Totalizer (Gal) **(photo)**	130348.9	

NOTES

SVE SYSTEM SAMPLING

SAMPLE ID: **SAMPLE TIME:**
PID (ppm) 92.0 **OXYGEN (%)** 20.9 **CARBON DIOXIDE ~~(%)~~ (ppm)** 640
Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), 8260 - Full List VOCs, Fixed Gas (CO2 AND O2)

OPERATING WELLS

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE ~~(%)~~ (ppm)
MW01	1.38	44.1	20.9	100
MW02	104.9	60.6	20.9	1020
MW03	80.5	33.7	20.9	20
MW06	105.7	20.1	20.9	180
MW10	46.9	59.9	20.9	740
MW15	123.2	25.8	20.9	20

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (InHg)	SEE LIQUIDS? (YES/NO)	DIFF. PRESS. (IWC)
MW01	5.5	N	-10.65
MW02	8.5		0.43
MW03	8.5		0.10
MW06	10.0		0.67
MW10	8.0		-0.22
MW15	8.5		-0.46

INFLUENCE

WELL ID	VACUUM (IWC)
MW04	0
MW07	0

COMMENTS/MAINTENANCE ISSUES

NOTES

ENSOLUM

STANDARD 1A DPE SYSTEM
O&M FORM

DATE: 2-7
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

DPE ALARMS: KO TANK HIGH LEVEL

DPE SYSTEM	READING	TIME
Blower Hours **(photo)**	9201.6	1552
Transfer Pump Hours **(photo)**	139.7	
Influent Vacuum Pre-KO (InHg)	158	
Fresh Air Bypass (% Open)	10	
Pre-Filter Vacuum (InHg)	18	
Post-Filter Vacuum (InHg)	16.5	
Differential Pressure (IWC)	1.0	
Exhaust Temperature (°F)	225	
Exhaust PID (ppm)	26.8	
Transfer Pump Pressure (PSI)	5.5	
Transfer Pump Totalizer (Gal) **(photo)**	132315.5	

NOTES

SVE SYSTEM SAMPLING

SAMPLE ID: SVE-1 **SAMPLE TIME:** 1609
PID (ppm) 31.7 **OXYGEN (%)** **CARBON DIOXIDE (%)**
Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), 8260 - Full List VOCs, Fixed Gas (CO2 AND O2)

OPERATING WELLS

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
MW01				
MW02				
MW03				
MW06				
MW10	48.0	15.0		
MW15				

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (InHg)	SEE LIQUIDS? (YES/NO)	DIFF. PRESS. (IWC)
MW01	13.5	N	4.61*
MW02	15.5		4.61
MW03	14.5		0.10
MW06	16.5		0.41
MW10	9.0		-0.65
MW15	15.0		-1.52

INFLUENCE

WELL ID	VACUUM (IWC)
MW04	0
MW07	0

COMMENTS/MAINTENANCE ISSUES

O_2 gauge broken
*no pressure on LP valve
Could not draw air through sample probe for remainder of wells

ENSOLUM

STANDARD 1A DPE SYSTEM
O&M FORM

DATE: 2-24
TIME ONSITE:

O&M PERSONNEL: B Sinclair
TIME OFFSITE:

SVE SYSTEM - MONTHLY O&M

DPE ALARMS: KO TANK HIGH LEVEL

DPE SYSTEM	READING	TIME
Blower Hours **(photo)**	9606.3	1229
Transfer Pump Hours **(photo)**	141.8	
Influent Vacuum Pre-KO (InHg)	-160	
Fresh Air Bypass (% Open)	15	
Pre-Filter Vacuum (InHg)	18.25	
Post-Filter Vacuum (InHg)	16.5	
Differential Pressure (IWC)	1.0	
Exhaust Temperature (°F)	225	
Exhaust PID (ppm)	26.5	
Transfer Pump Pressure (PSI)	20.0	
Transfer Pump Totalizer (Gal) **(photo)**	135059.3	

NOTES

SVE SYSTEM SAMPLING

SAMPLE ID:	**SAMPLE TIME:**
PID (ppm)	58.5 **~~OXYGEN (%)~~** **~~CARBON DIOXIDE (%)~~**
Analytes:	Sample Bi-Monthly (every other month) for TVPH (8015), 8260 - Full List VOCs, Fixed Gas (CO2 AND O2)
OPERATING WELLS	
Change in Well Operation:	

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
MW01	—	—		
MW02	—	—		
MW03	—	—		
MW06	—	—		
MW10	48.2	28.0		
MW15	—	—		

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (InHg)	SEE LIQUIDS? (YES/NO)	DIFF. PRESS. (IWC)
MW01	14.0	N	-3.78
MW02	15.75		Un FI
MW03	15.5		0.08
MW06	16.5		0.53
MW10	10.0		-7.58
MW15	15.0		-11.36

INFLUENCE

WELL ID	VACUUM (IWC)
MW04	8
MW07	

COMMENTS/MAINTENANCE ISSUES

Air gauge slipped for repairs/troubleshooting

ENSOLUM

STANDARD 1A DPE SYSTEM
O&M FORM

DATE: 3-10
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

DPE ALARMS: KO TANK HIGH LEVEL

DPE SYSTEM	READING	TIME
Blower Hours **(photo)**	9940.1	1135
Transfer Pump Hours **(photo)**	143.3	
Influent Vacuum Pre-KO (InHg)	0*	
Fresh Air Bypass (% Open)	15	
Pre-Filter Vacuum (InHg)	13.25	
Post-Filter Vacuum (InHg)	11.75	
Differential Pressure (IWC)	2.0	
Exhaust Temperature (°F)	180	
Exhaust PID (ppm)	27.2	
Transfer Pump Pressure (PSI)	9.5	
Transfer Pump Totalizer (Gal) **(photo)**	136074.8	

NOTES
* Gauge not functional

SVE SYSTEM SAMPLING

SAMPLE ID: **SAMPLE TIME:**
PID (ppm) 48.8 ~~**OXYGEN (%)**~~ ~~**CARBON DIOXIDE (%)**~~
Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), 8260 - Full List VOCs, Fixed Gas (CO2 AND O2)
OPERATING WELLS
Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
MW01				
MW02				
MW03				
MW06				
MW10	48.3	26.7		
MW15				

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (InHg)	SEE LIQUIDS? (YES/NO)	DIFF. PRESS. (IWC)
MW01	9.0	N	U.F.I
MW02	8.0		0.41
MW03	9.0		0.13
MW06	11.25		0.42
MW10	9.5		-3.68
MW15	6.75		-2.33

INFLUENCE

WELL ID	VACUUM (IWC)
MW04	0
MW07	0

COMMENTS/MAINTENANCE ISSUES

ENSOLUM

STANDARD 1A DPE SYSTEM
O&M FORM

DATE: 3-24
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

DPE ALARMS: KO TANK HIGH LEVEL

DPE SYSTEM	READING	TIME
Blower Hours **(photo)**	10254.9	1435
Transfer Pump Hours **(photo)**	144.1	
Influent Vacuum Pre-KO (InHg)	14	
Fresh Air Bypass (% Open)	0	
Pre-Filter Vacuum (InHg)	19.25	
Post-Filter Vacuum (InHg)	17.75	
Differential Pressure (IWC)	0.75	
Exhaust Temperature (°F)	235	
Exhaust PID (ppm)	24.3	
Transfer Pump Pressure (PSI)	5.5	
Transfer Pump Totalizer (Gal) **(photo)**	136823.6	

NOTES

SVE SYSTEM SAMPLING

SAMPLE ID: **SAMPLE TIME:**
PID (ppm) 34.9 **OXYGEN (%)** 20.7 **CARBON DIOXIDE (%)** 0.2
Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), 8260 - Full List VOCs, Fixed Gas (CO2 AND O2)
OPERATING WELLS

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
~~MW01~~				
MW02	199.9	29.1	20.2	0.2
MW03	207.8	126.2	20.5	0.2
MW06	213.6	14.2	19.2	0.7
MW10	54.6	17.7	20.2	0.2
MW15	242.6	28.0	20.5	0.3

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (InHg)	SEE LIQUIDS? (YES/NO)	DIFF. PRESS. (IWC)
MW01	14.75	N	-33.1
MW02	17.5		-75.8
MW03	17.5		0.08
MW06	18.25		0.78
MW10	13.25		0.02
MW15	16.5		-2.81

INFLUENCE

WELL ID	VACUUM (IWC)
MW04	0
MW07	0

COMMENTS/MAINTENANCE ISSUES

No vacuum in line MW01

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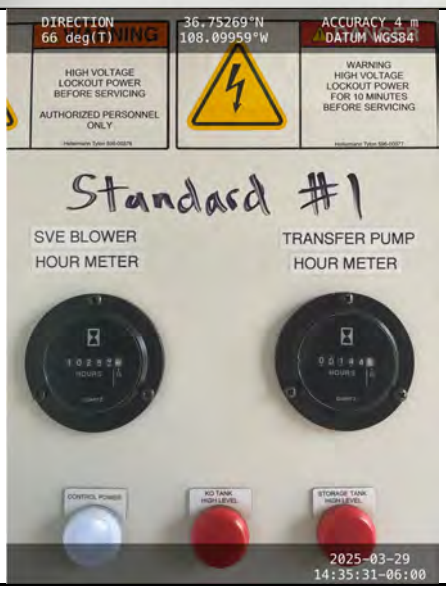
APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS
Standard #1
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1 Runtime meter taken on December 19, 2024 at 1:33 PM Hours = 7,999.3	
Photograph 2 Runtime meter taken on March 29, 2025 at 2:35 PM Hours = 10,254.9	

Ensolum, LLC | Environmental & Hydrogeologic Consultants
Durango, Colorado | info@ensolum.com

PROJECT PHOTOGRAPHS
Standard #1
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 3 Totalizer taken on December 19, 2024 at 1:34 PM Gallons = 128,699.9		
Photograph 4 Totalizer taken on March 29, 2025 at 2:35 PM Gallons = 136,823.6		

Ensolum, LLC | Environmental & Hydrogeologic Consultants
Durango, Colorado | info@ensolum.com

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APPENDIX C

DPE Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/4/2025 5:33:38 PM

JOB DESCRIPTION

Standard 1

JOB NUMBER

885-19765-1

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

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

Client: Hilcorp Energy
Project/Site: Standard 1

Laboratory Job ID: 885-19765-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

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: Standard 1

Job ID: 885-19765-1

Job ID: 885-19765-1 Eurofins Albuquerque

Job Narrative
885-19765-1

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 sample was received on 2/12/2025 7:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

Subcontract Work
Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

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

GC/MS VOA
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: Standard 1

Job ID: 885-19765-1

Client Sample ID: SVE-1

Lab Sample ID: 885-19765-1

Date Collected: 02/07/25 16:00
Matrix: Air
Date Received: 02/12/25 07:20
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	140		10		ug/L			02/21/25 12:30	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*52 - 172*		*02/21/25 12:30*	*2*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/21/25 12:30	2
1,1,1-Trichloroethane	ND		0.20		ug/L			02/21/25 12:30	2
1,1,2,2-Tetrachloroethane	ND		0.40		ug/L			02/21/25 12:30	2
1,1,2-Trichloroethane	ND		0.20		ug/L			02/21/25 12:30	2
1,1-Dichloroethane	ND		0.20		ug/L			02/21/25 12:30	2
1,1-Dichloroethene	ND		0.20		ug/L			02/21/25 12:30	2
1,1-Dichloropropene	ND		0.20		ug/L			02/21/25 12:30	2
1,2,3-Trichlorobenzene	ND		0.20		ug/L			02/21/25 12:30	2
1,2,3-Trichloropropane	ND		0.40		ug/L			02/21/25 12:30	2
1,2,4-Trichlorobenzene	ND		0.20		ug/L			02/21/25 12:30	2
1,2,4-Trimethylbenzene	0.38		0.20		ug/L			02/21/25 12:30	2
1,2-Dibromo-3-Chloropropane	ND		0.40		ug/L			02/21/25 12:30	2
1,2-Dibromoethane (EDB)	ND		0.20		ug/L			02/21/25 12:30	2
1,2-Dichlorobenzene	ND		0.20		ug/L			02/21/25 12:30	2
1,2-Dichloroethane (EDC)	ND		0.20		ug/L			02/21/25 12:30	2
1,2-Dichloropropane	ND		0.20		ug/L			02/21/25 12:30	2
1,3,5-Trimethylbenzene	0.50		0.20		ug/L			02/21/25 12:30	2
1,3-Dichlorobenzene	ND		0.20		ug/L			02/21/25 12:30	2
1,3-Dichloropropane	ND		0.20		ug/L			02/21/25 12:30	2
1,4-Dichlorobenzene	ND		0.20		ug/L			02/21/25 12:30	2
1-Methylnaphthalene	ND		0.80		ug/L			02/21/25 12:30	2
2,2-Dichloropropane	ND		0.40		ug/L			02/21/25 12:30	2
2-Butanone	ND		2.0		ug/L			02/21/25 12:30	2
2-Chlorotoluene	ND		0.20		ug/L			02/21/25 12:30	2
2-Hexanone	ND		2.0		ug/L			02/21/25 12:30	2
2-Methylnaphthalene	ND		0.80		ug/L			02/21/25 12:30	2
4-Chlorotoluene	ND		0.20		ug/L			02/21/25 12:30	2
4-Isopropyltoluene	ND		0.20		ug/L			02/21/25 12:30	2
4-Methyl-2-pentanone	ND		2.0		ug/L			02/21/25 12:30	2
Acetone	ND		2.0		ug/L			02/21/25 12:30	2
Benzene	1.6		0.20		ug/L			02/21/25 12:30	2
Bromobenzene	ND		0.20		ug/L			02/21/25 12:30	2
Bromodichloromethane	ND		0.20		ug/L			02/21/25 12:30	2
Dibromochloromethane	ND		0.20		ug/L			02/21/25 12:30	2
Bromoform	ND		0.20		ug/L			02/21/25 12:30	2
Bromomethane	ND		0.60		ug/L			02/21/25 12:30	2
Carbon disulfide	ND		2.0		ug/L			02/21/25 12:30	2
Carbon tetrachloride	ND		0.20		ug/L			02/21/25 12:30	2
Chlorobenzene	ND		0.20		ug/L			02/21/25 12:30	2
Chloroethane	ND		0.40		ug/L			02/21/25 12:30	2
Chloroform	ND		0.20		ug/L			02/21/25 12:30	2

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

Client Sample ID: SVE-1

Lab Sample ID: 885-19765-1

Date Collected: 02/07/25 16:00
Matrix: Air
Date Received: 02/12/25 07:20
Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.60		ug/L			02/21/25 12:30	2
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/21/25 12:30	2
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/21/25 12:30	2
Dibromomethane	ND		0.20		ug/L			02/21/25 12:30	2
Dichlorodifluoromethane	ND		0.20		ug/L			02/21/25 12:30	2
Ethylbenzene	**0.34**		0.20		ug/L			02/21/25 12:30	2
Hexachlorobutadiene	ND		0.20		ug/L			02/21/25 12:30	2
Isopropylbenzene	ND		0.20		ug/L			02/21/25 12:30	2
Methyl-tert-butyl Ether (MTBE)	ND		0.20		ug/L			02/21/25 12:30	2
Methylene Chloride	ND		0.60		ug/L			02/21/25 12:30	2
n-Butylbenzene	ND		0.60		ug/L			02/21/25 12:30	2
N-Propylbenzene	ND		0.20		ug/L			02/21/25 12:30	2
Naphthalene	ND		0.40		ug/L			02/21/25 12:30	2
sec-Butylbenzene	ND		0.20		ug/L			02/21/25 12:30	2
Styrene	ND		0.20		ug/L			02/21/25 12:30	2
tert-Butylbenzene	ND		0.20		ug/L			02/21/25 12:30	2
Tetrachloroethene (PCE)	ND		0.20		ug/L			02/21/25 12:30	2
Toluene	**4.8**		0.20		ug/L			02/21/25 12:30	2
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/21/25 12:30	2
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/21/25 12:30	2
Trichloroethene (TCE)	ND		0.20		ug/L			02/21/25 12:30	2
Trichlorofluoromethane	ND		0.20		ug/L			02/21/25 12:30	2
Vinyl chloride	ND		0.20		ug/L			02/21/25 12:30	2
Xylenes, Total	**5.3**		0.30		ug/L			02/21/25 12:30	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/21/25 12:30*	*2*
Toluene-d8 (Surr)	*101*		*70 - 130*		*02/21/25 12:30*	*2*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/21/25 12:30*	*2*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*02/21/25 12:30*	*2*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-21215/5
Matrix: Air
Analysis Batch: 21215

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			02/21/25 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*52 - 172*		*02/21/25 12:06*	*1*

Lab Sample ID: LCS 885-21215/4
Matrix: Air
Analysis Batch: 21215

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			500	536		ug/L					

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

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

Lab Sample ID: MB 885-21216/5
Matrix: Air
Analysis Batch: 21216

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			02/21/25 12:06	1
1,1,1-Trichloroethane	ND		0.10		ug/L			02/21/25 12:06	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/21/25 12:06	1
1,1,2-Trichloroethane	ND		0.10		ug/L			02/21/25 12:06	1
1,1-Dichloroethane	ND		0.10		ug/L			02/21/25 12:06	1
1,1-Dichloroethene	ND		0.10		ug/L			02/21/25 12:06	1
1,1-Dichloropropene	ND		0.10		ug/L			02/21/25 12:06	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			02/21/25 12:06	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/21/25 12:06	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			02/21/25 12:06	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			02/21/25 12:06	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			02/21/25 12:06	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			02/21/25 12:06	1
1,2-Dichlorobenzene	ND		0.10		ug/L			02/21/25 12:06	1
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			02/21/25 12:06	1
1,2-Dichloropropane	ND		0.10		ug/L			02/21/25 12:06	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			02/21/25 12:06	1
1,3-Dichlorobenzene	ND		0.10		ug/L			02/21/25 12:06	1
1,3-Dichloropropane	ND		0.10		ug/L			02/21/25 12:06	1
1,4-Dichlorobenzene	ND		0.10		ug/L			02/21/25 12:06	1
1-Methylnaphthalene	ND		0.40		ug/L			02/21/25 12:06	1
2,2-Dichloropropane	ND		0.20		ug/L			02/21/25 12:06	1
2-Butanone	ND		1.0		ug/L			02/21/25 12:06	1
2-Chlorotoluene	ND		0.10		ug/L			02/21/25 12:06	1
2-Hexanone	ND		1.0		ug/L			02/21/25 12:06	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

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

Lab Sample ID: MB 885-21216/5
Matrix: Air
Analysis Batch: 21216

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.40		ug/L			02/21/25 12:06	1
4-Chlorotoluene	ND		0.10		ug/L			02/21/25 12:06	1
4-Isopropyltoluene	ND		0.10		ug/L			02/21/25 12:06	1
4-Methyl-2-pentanone	ND		1.0		ug/L			02/21/25 12:06	1
Acetone	ND		1.0		ug/L			02/21/25 12:06	1
Benzene	ND		0.10		ug/L			02/21/25 12:06	1
Bromobenzene	ND		0.10		ug/L			02/21/25 12:06	1
Bromodichloromethane	ND		0.10		ug/L			02/21/25 12:06	1
Dibromochloromethane	ND		0.10		ug/L			02/21/25 12:06	1
Bromoform	ND		0.10		ug/L			02/21/25 12:06	1
Bromomethane	ND		0.30		ug/L			02/21/25 12:06	1
Carbon disulfide	ND		1.0		ug/L			02/21/25 12:06	1
Carbon tetrachloride	ND		0.10		ug/L			02/21/25 12:06	1
Chlorobenzene	ND		0.10		ug/L			02/21/25 12:06	1
Chloroethane	ND		0.20		ug/L			02/21/25 12:06	1
Chloroform	ND		0.10		ug/L			02/21/25 12:06	1
Chloromethane	ND		0.30		ug/L			02/21/25 12:06	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			02/21/25 12:06	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			02/21/25 12:06	1
Dibromomethane	ND		0.10		ug/L			02/21/25 12:06	1
Dichlorodifluoromethane	ND		0.10		ug/L			02/21/25 12:06	1
Ethylbenzene	ND		0.10		ug/L			02/21/25 12:06	1
Hexachlorobutadiene	ND		0.10		ug/L			02/21/25 12:06	1
Isopropylbenzene	ND		0.10		ug/L			02/21/25 12:06	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			02/21/25 12:06	1
Methylene Chloride	ND		0.30		ug/L			02/21/25 12:06	1
n-Butylbenzene	ND		0.30		ug/L			02/21/25 12:06	1
N-Propylbenzene	ND		0.10		ug/L			02/21/25 12:06	1
Naphthalene	ND		0.20		ug/L			02/21/25 12:06	1
sec-Butylbenzene	ND		0.10		ug/L			02/21/25 12:06	1
Styrene	ND		0.10		ug/L			02/21/25 12:06	1
tert-Butylbenzene	ND		0.10		ug/L			02/21/25 12:06	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			02/21/25 12:06	1
Toluene	ND		0.10		ug/L			02/21/25 12:06	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			02/21/25 12:06	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			02/21/25 12:06	1
Trichloroethene (TCE)	ND		0.10		ug/L			02/21/25 12:06	1
Trichlorofluoromethane	ND		0.10		ug/L			02/21/25 12:06	1
Vinyl chloride	ND		0.10		ug/L			02/21/25 12:06	1
Xylenes, Total	ND		0.15		ug/L			02/21/25 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*02/21/25 12:06*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*02/21/25 12:06*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*02/21/25 12:06*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/21/25 12:06*	*1*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

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

Lab Sample ID: LCS 885-21216/4
Matrix: Air
Analysis Batch: 21216

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	20.3		ug/L		101	70 - 130		
Chlorobenzene			20.1	19.1		ug/L		95	70 - 130		
Toluene			20.2	19.2		ug/L		95	70 - 130		
Trichloroethene (TCE)			20.2	19.3		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

QC Association Summary

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

GC/MS VOA

Analysis Batch: 21215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19765-1	SVE-1	Total/NA	Air	8015M/D	
MB 885-21215/5	Method Blank	Total/NA	Air	8015M/D	
LCS 885-21215/4	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 21216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19765-1	SVE-1	Total/NA	Air	8260B	
MB 885-21216/5	Method Blank	Total/NA	Air	8260B	
LCS 885-21216/4	Lab Control Sample	Total/NA	Air	8260B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

Client Sample ID: SVE-1

Date Collected: 02/07/25 16:00
Date Received: 02/12/25 07:20

Lab Sample ID: 885-19765-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		2	21215	CM	EET ALB	02/21/25 12:30
Total/NA	Analysis	8260B		2	21216	CM	EET ALB	02/21/25 12:30

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

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
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

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		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

Oregon	NELAP	NM100001	02-25-25

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
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Standard 1

Job ID: 885-19765-1

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		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

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ANALYTICAL SUMMARY REPORT

February 19, 2025

Eurofins TestAmerica - Albuquerque
4901 Hawkins St NE Ste D
Albuquerque, NM 87109-4372

Work Order: B25020706 Quote ID: B15626

Project Name: 88501698, Standard 1

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 2/13/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25020706-001	SVE-1 (885-19765-1)	02/07/25 16:00	02/13/25	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Eurofins TestAmerica - Albuquerque
Project: 88501698, Standard 1
Lab ID: B25020706-001
Client Sample ID: SVE-1 (885-19765-1)

Report Date: 02/19/25
Collection Date: 02/07/25 16:00
DateReceived: 02/13/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	21.68	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Nitrogen	78.19	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Carbon Dioxide	0.13	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:54 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:54 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:54 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:54 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:54 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:54 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:54 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:54 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:54 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	02/14/25 11:54 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	02/14/25 11:54 / jrj
Pseudo-critical Pressure, psia	545			1		GPA 2261-13	02/14/25 11:54 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-13	02/14/25 11:54 / jrj
Specific Gravity @ 60/60F	0.998			0.001		D3588-81	02/14/25 11:54 / jrj
Air, %	99.07			0.01		GPA 2261-13	02/14/25 11:54 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	02/14/25 11:54 / jrj

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.
- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.
- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.
- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25020706 **Report Date:** 02/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261-13**										Batch: R436876
Lab ID: **B25020706-001ADUP**	12	Sample Duplicate				Run: GC7890_250214A			02/14/25 12:43	
Oxygen		21.8	Mol %	0.01				0.4	20	
Nitrogen		78.1	Mol %	0.01				0.1	20	
Carbon Dioxide		0.12	Mol %	0.01				8.0	20	
Hydrogen Sulfide		<0.01	Mol %	0.01					20	
Methane		<0.01	Mol %	0.01					20	
Ethane		<0.01	Mol %	0.01					20	
Propane		<0.01	Mol %	0.01					20	
Isobutane		<0.01	Mol %	0.01					20	
n-Butane		<0.01	Mol %	0.01					20	
Isopentane		<0.01	Mol %	0.01					20	
n-Pentane		<0.01	Mol %	0.01					20	
Hexanes plus		<0.01	Mol %	0.01					20	
Lab ID: **LCS021825**	11	Laboratory Control Sample				Run: GC7890_250214A			02/14/25 02:42	
Oxygen		0.61	Mol %	0.01	122	70	130			
Nitrogen		6.02	Mol %	0.01	100	70	130			
Carbon Dioxide		0.98	Mol %	0.01	99	70	130			
Methane		74.8	Mol %	0.01	100	70	130			
Ethane		5.99	Mol %	0.01	100	70	130			
Propane		5.00	Mol %	0.01	101	70	130			
Isobutane		1.84	Mol %	0.01	92	70	130			
n-Butane		1.98	Mol %	0.01	99	70	130			
Isopentane		1.00	Mol %	0.01	100	70	130			
n-Pentane		0.99	Mol %	0.01	99	70	130			
Hexanes plus		0.79	Mol %	0.01	99	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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Work Order Receipt Checklist

Eurofins TestAmerica - Albuquerque B25020706

Login completed by: Crystal M. Jones
Date Received: 2/13/2025
Reviewed by: lcadreau
Received by: DNH
Reviewed Date: 2/13/2025
Carrier name: FedEx NDA

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	5.3°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

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Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Garcia, Michelle	Carrier Tracking No(s): N/A	COC No: 885-3868.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: michelle.garcia@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Energy Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon; State - New Mexico		Job #: 885-19765-1
Address: 1120 South 27th Street, ,	Due Date Requested: 2/19/2025			
City: Billings	TAT Requested (days): N/A			
State, Zip: MT, 59101				
Phone: 406-252-6325(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Standard 1	Project #: 88501698			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Fixed Gases)/ Fixed Gases	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SVE-1 (885-19765-1)	2/7/25	16:00 Mountain	G	Air			X	1	See Attached Instructions

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/12/25 1315	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 02/13/25	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

ICOC No:
885-3868

Containers

Count	Container Type	Preservative
1	Tedlar Bag 1L	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB (Fixed Gases)/ Fixed Gases	Fixed Gases

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

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:
☑ Standard ☐ Rush

Project Name: Standard 1

Project #:

Project Manager: Mitch Killough

Sampler: Brandon Sinclair

On Ice: ☐ Yes ☒ No

# of Coolers: 1 Mod

Cooler Temp(including CF): 1.2+0.3=1.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORA

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-19765 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	8015 TVPH	Fixed gas O_2 & CO_2			
2-7	1600	air	SVE-1	2 Tedlar										✓			✓	✓			

Date	Time	Relinquished by	Received by	Via	Date	Time
2/11/25	1228	Brian Sinclair	Chris Walt		2/11/25	1228
2/11/25	1720	Chris Walt		Courier	2/12/25	7:20

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: 885-19765-1

Login Number: 19765 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

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 Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/3/2025 11:20:26 AM

JOB DESCRIPTION

Standard #1 Groundwater

JOB NUMBER

885-22030-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

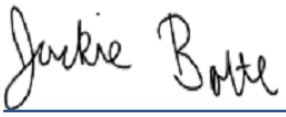
See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization



Generated
4/3/2025 11:20:26 AM

Authorized for release by
Jackie Bolte, Project Manager
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Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Laboratory Job ID: 885-22030-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Qualifiers

GC/MS VOA

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

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: Standard #1 Groundwater

Job ID: 885-22030-1

Job ID: 885-22030-1 Eurofins Albuquerque

Job Narrative
885-22030-1

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

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

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

Receipt
The samples were received on 3/25/2025 7:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

GC/MS VOA
Method 8260B: The following samples were diluted due to the abundance of non-target analytes: MW 16 (885-22030-1), MW 09 (885-22030-3), MW 19 (885-22030-4), MW 18 (885-22030-8), (885-22030-A-1 MS) and (885-22030-A-1 MSD). 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.

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 16

Date Collected: 03/20/25 15:00
Date Received: 03/25/25 07:10

Lab Sample ID: 885-22030-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**93**		20		ug/L			03/31/25 21:55	20
Ethylbenzene	**140**		20		ug/L			03/31/25 21:55	20
Methyl-tert-butyl Ether (MTBE)	ND		20		ug/L			03/31/25 21:55	20
m&p-Xylene	**75**		20		ug/L			03/31/25 21:55	20
o-Xylene	**37**		20		ug/L			03/31/25 21:55	20
Tetrachloroethene (PCE)	ND		20		ug/L			03/31/25 21:55	20
Toluene	ND		20		ug/L			03/31/25 21:55	20
Trichloroethene (TCE)	ND		20		ug/L			03/31/25 21:55	20
Xylenes, Total	**110**		30		ug/L			03/31/25 21:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*		*03/31/25 21:55*	*20*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/31/25 21:55*	*20*
Dibromofluoromethane (Surr)	*138*	*S1+*	*70 - 130*		*03/31/25 21:55*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/31/25 21:55*	*20*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 17

Date Collected: 03/20/25 15:30
Date Received: 03/25/25 07:10

Lab Sample ID: 885-22030-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			03/31/25 23:48	1
Ethylbenzene	ND		1.0		ug/L			03/31/25 23:48	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/31/25 23:48	1
m&p-Xylene	ND		1.0		ug/L			03/31/25 23:48	1
o-Xylene	ND		1.0		ug/L			03/31/25 23:48	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/31/25 23:48	1
Toluene	ND		1.0		ug/L			03/31/25 23:48	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/31/25 23:48	1
Xylenes, Total	ND		1.5		ug/L			03/31/25 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*		*03/31/25 23:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/31/25 23:48*	*1*
Dibromofluoromethane (Surr)	*137*	*S1+*	*70 - 130*		*03/31/25 23:48*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*03/31/25 23:48*	*1*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 09

Date Collected: 03/20/25 17:30
Date Received: 03/25/25 07:10

Lab Sample ID: 885-22030-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1100**		100		ug/L			04/01/25 00:16	100
Ethylbenzene	**71**		10		ug/L			04/01/25 00:44	10
Methyl-tert-butyl Ether (MTBE)	ND		10		ug/L			04/01/25 00:44	10
m&p-Xylene	ND		10		ug/L			04/01/25 00:44	10
o-Xylene	ND		10		ug/L			04/01/25 00:44	10
Tetrachloroethene (PCE)	ND		10		ug/L			04/01/25 00:44	10
Toluene	ND		10		ug/L			04/01/25 00:44	10
Trichloroethene (TCE)	ND		10		ug/L			04/01/25 00:44	10
Xylenes, Total	ND		15		ug/L			04/01/25 00:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*04/01/25 00:16*	*100*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*		*04/01/25 00:44*	*10*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/01/25 00:44*	*10*
Dibromofluoromethane (Surr)	*133*	*S1+*	*70 - 130*		*04/01/25 00:16*	*100*
Dibromofluoromethane (Surr)	*136*	*S1+*	*70 - 130*		*04/01/25 00:44*	*10*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/01/25 00:44*	*10*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 19

Date Collected: 03/21/25 09:00
Date Received: 03/25/25 07:10

Lab Sample ID: 885-22030-4

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6000**		200		ug/L			04/01/25 01:13	200
Ethylbenzene	**1200**		200		ug/L			04/01/25 01:13	200
Methyl-tert-butyl Ether (MTBE)	ND		200		ug/L			04/01/25 01:13	200
m&p-Xylene	**7600**		200		ug/L			04/01/25 01:13	200
o-Xylene	**2300**		200		ug/L			04/01/25 01:13	200
Tetrachloroethene (PCE)	ND		200		ug/L			04/01/25 01:13	200
Toluene	**18000**		200		ug/L			04/01/25 01:13	200
Trichloroethene (TCE)	ND		200		ug/L			04/01/25 01:13	200
Xylenes, Total	**9900**		300		ug/L			04/01/25 01:13	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*04/01/25 01:13*	*200*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/01/25 01:13*	*200*
Dibromofluoromethane (Surr)	*134*	*S1+*	*70 - 130*		*04/01/25 01:13*	*200*
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/01/25 01:13*	*200*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 12

Date Collected: 03/21/25 11:45
Date Received: 03/25/25 07:10

Lab Sample ID: 885-22030-5

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**22**		1.0		ug/L			04/01/25 01:41	1
Ethylbenzene	**4.2**		1.0		ug/L			04/01/25 01:41	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			04/01/25 01:41	1
m&p-Xylene	**16**		1.0		ug/L			04/01/25 01:41	1
o-Xylene	ND		1.0		ug/L			04/01/25 01:41	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			04/01/25 01:41	1
Toluene	**1.7**		1.0		ug/L			04/01/25 01:41	1
Trichloroethene (TCE)	ND		1.0		ug/L			04/01/25 01:41	1
Xylenes, Total	**16**		1.5		ug/L			04/01/25 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*		*04/01/25 01:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*04/01/25 01:41*	*1*
Dibromofluoromethane (Surr)	*134*	*S1+*	*70 - 130*		*04/01/25 01:41*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/01/25 01:41*	*1*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 11

Date Collected: 03/21/25 12:15
Date Received: 03/25/25 07:10

Lab Sample ID: 885-22030-6

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			04/01/25 02:09	1
Ethylbenzene	ND		1.0		ug/L			04/01/25 02:09	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			04/01/25 02:09	1
m&p-Xylene	**2.2**		1.0		ug/L			04/01/25 02:09	1
o-Xylene	ND		1.0		ug/L			04/01/25 02:09	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			04/01/25 02:09	1
Toluene	**3.3**		1.0		ug/L			04/01/25 02:09	1
Trichloroethene (TCE)	ND		1.0		ug/L			04/01/25 02:09	1
Xylenes, Total	**2.2**		1.5		ug/L			04/01/25 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*04/01/25 02:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/01/25 02:09*	*1*
Dibromofluoromethane (Surr)	*137*	*S1+*	*70 - 130*		*04/01/25 02:09*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/01/25 02:09*	*1*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 22

Date Collected: 03/21/25 14:15
Date Received: 03/25/25 07:10

Lab Sample ID: 885-22030-7

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			04/01/25 02:37	1
Ethylbenzene	ND		1.0		ug/L			04/01/25 02:37	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			04/01/25 02:37	1
m&p-Xylene	ND		1.0		ug/L			04/01/25 02:37	1
o-Xylene	ND		1.0		ug/L			04/01/25 02:37	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			04/01/25 02:37	1
Toluene	ND		1.0		ug/L			04/01/25 02:37	1
Trichloroethene (TCE)	ND		1.0		ug/L			04/01/25 02:37	1
Xylenes, Total	ND		1.5		ug/L			04/01/25 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*04/01/25 02:37*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/01/25 02:37*	*1*
Dibromofluoromethane (Surr)	*133*	*S1+*	*70 - 130*		*04/01/25 02:37*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/01/25 02:37*	*1*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 18

Date Collected: 03/21/25 14:45
Date Received: 03/25/25 07:10

Lab Sample ID: 885-22030-8

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**440**		5.0		ug/L			04/01/25 03:05	5
Ethylbenzene	ND		5.0		ug/L			04/01/25 03:05	5
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			04/01/25 03:05	5
m&p-Xylene	ND		5.0		ug/L			04/01/25 03:05	5
o-Xylene	ND		5.0		ug/L			04/01/25 03:05	5
Tetrachloroethene (PCE)	ND		5.0		ug/L			04/01/25 03:05	5
Toluene	ND		5.0		ug/L			04/01/25 03:05	5
Trichloroethene (TCE)	ND		5.0		ug/L			04/01/25 03:05	5
Xylenes, Total	ND		7.5		ug/L			04/01/25 03:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*		*04/01/25 03:05*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/01/25 03:05*	*5*
Dibromofluoromethane (Surr)	*135*	*S1+*	*70 - 130*		*04/01/25 03:05*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/01/25 03:05*	*5*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 23

Date Collected: 03/21/25 15:20
Date Received: 03/25/25 07:10

Lab Sample ID: 885-22030-9

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			04/01/25 03:33	1
Ethylbenzene	ND		1.0		ug/L			04/01/25 03:33	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			04/01/25 03:33	1
m&p-Xylene	ND		1.0		ug/L			04/01/25 03:33	1
o-Xylene	ND		1.0		ug/L			04/01/25 03:33	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			04/01/25 03:33	1
Toluene	ND		1.0		ug/L			04/01/25 03:33	1
Trichloroethene (TCE)	ND		1.0		ug/L			04/01/25 03:33	1
Xylenes, Total	ND		1.5		ug/L			04/01/25 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*		*04/01/25 03:33*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/01/25 03:33*	*1*
Dibromofluoromethane (Surr)	*134*	*S1+*	*70 - 130*		*04/01/25 03:33*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/01/25 03:33*	*1*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

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

Lab Sample ID: MB 885-23439/7
Matrix: Water
Analysis Batch: 23439

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			03/31/25 19:06	1
Ethylbenzene	ND		1.0		ug/L			03/31/25 19:06	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			03/31/25 19:06	1
m&p-Xylene	ND		1.0		ug/L			03/31/25 19:06	1
o-Xylene	ND		1.0		ug/L			03/31/25 19:06	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			03/31/25 19:06	1
Toluene	ND		1.0		ug/L			03/31/25 19:06	1
Trichloroethene (TCE)	ND		1.0		ug/L			03/31/25 19:06	1
Xylenes, Total	ND		1.5		ug/L			03/31/25 19:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*		*03/31/25 19:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/31/25 19:06*	*1*
Dibromofluoromethane (Surr)	*134*	*S1+*	*70 - 130*		*03/31/25 19:06*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/31/25 19:06*	*1*

Lab Sample ID: LCS 885-23439/5
Matrix: Water
Analysis Batch: 23439

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.0	25.5		ug/L		127	70 - 130		
Ethylbenzene			20.0	21.9		ug/L		109	70 - 130		
Toluene			20.0	21.9		ug/L		110	70 - 130		
Trichloroethene (TCE)			20.0	23.4		ug/L		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*126*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 885-22030-1 MS
Matrix: Water
Analysis Batch: 23439

Client Sample ID: MW 16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	93		400	606		ug/L		128	70 - 130		
Ethylbenzene	140		400	564		ug/L		105	70 - 130		
Toluene	ND		400	416		ug/L		104	70 - 130		
Trichloroethene (TCE)	ND		400	482		ug/L		119	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*139*	*S1+*	*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

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

Lab Sample ID: 885-22030-1 MSD
Matrix: Water
Analysis Batch: 23439

Client Sample ID: MW 16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	93		400	610		ug/L		129	70 - 130	1	20
Ethylbenzene	140		400	550		ug/L		101	70 - 130	3	20
Toluene	ND		400	408		ug/L		102	70 - 130	2	20
Trichloroethene (TCE)	ND		400	475		ug/L		118	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*139*	*S1+*	*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

QC Association Summary

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

GC/MS VOA

Analysis Batch: 23439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22030-1	MW 16	Total/NA	Water	8260B	
885-22030-2	MW 17	Total/NA	Water	8260B	
885-22030-3	MW 09	Total/NA	Water	8260B	
885-22030-3	MW 09	Total/NA	Water	8260B	
885-22030-4	MW 19	Total/NA	Water	8260B	
885-22030-5	MW 12	Total/NA	Water	8260B	
885-22030-6	MW 11	Total/NA	Water	8260B	
885-22030-7	MW 22	Total/NA	Water	8260B	
885-22030-8	MW 18	Total/NA	Water	8260B	
885-22030-9	MW 23	Total/NA	Water	8260B	
MB 885-23439/7	Method Blank	Total/NA	Water	8260B	
LCS 885-23439/5	Lab Control Sample	Total/NA	Water	8260B	
885-22030-1 MS	MW 16	Total/NA	Water	8260B	
885-22030-1 MSD	MW 16	Total/NA	Water	8260B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Standard #1 Groundwater

Job ID: 885-22030-1

Client Sample ID: MW 16
Lab Sample ID: 885-22030-1
Date Collected: 03/20/25 15:00
Matrix: Water
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		20	23439	RA	EET ALB	03/31/25 21:55

Client Sample ID: MW 17
Lab Sample ID: 885-22030-2
Date Collected: 03/20/25 15:30
Matrix: Water
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	23439	RA	EET ALB	03/31/25 23:48

Client Sample ID: MW 09
Lab Sample ID: 885-22030-3
Date Collected: 03/20/25 17:30
Matrix: Water
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		100	23439	RA	EET ALB	04/01/25 00:16
Total/NA	Analysis	8260B		10	23439	RA	EET ALB	04/01/25 00:44

Client Sample ID: MW 19
Lab Sample ID: 885-22030-4
Date Collected: 03/21/25 09:00
Matrix: Water
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		200	23439	RA	EET ALB	04/01/25 01:13

Client Sample ID: MW 12
Lab Sample ID: 885-22030-5
Date Collected: 03/21/25 11:45
Matrix: Water
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	23439	RA	EET ALB	04/01/25 01:41

Client Sample ID: MW 11
Lab Sample ID: 885-22030-6
Date Collected: 03/21/25 12:15
Matrix: Water
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	23439	RA	EET ALB	04/01/25 02:09

Client Sample ID: MW 22
Lab Sample ID: 885-22030-7
Date Collected: 03/21/25 14:15
Matrix: Water
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	23439	RA	EET ALB	04/01/25 02:37

Lab Chronicle

Client: Hilcorp Energy
Job ID: 885-22030-1
Project/Site: Standard #1 Groundwater

Client Sample ID: MW 18
Lab Sample ID: 885-22030-8
Date Collected: 03/21/25 14:45
Matrix: Water
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	23439	RA	EET ALB	04/01/25 03:05

Client Sample ID: MW 23
Lab Sample ID: 885-22030-9
Date Collected: 03/21/25 15:20
Matrix: Water
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	23439	RA	EET ALB	04/01/25 03:33

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Job ID: 885-22030-1
Project/Site: Standard #1 Groundwater

Laboratory: Eurofins Albuquerque

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	m&p-Xylene
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	o-Xylene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Hilcorp Energy
Attn: Mitch Killough
Mailing Address:

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

Turn-Around Time:
☑ Standard ☐ Rush
Project Name: Standard #1 Groundwater
Project #:
Project Manager: Stuart Hyde
Sampler: Aaron L
On Ice: ☑ Yes ☐ No
# of Coolers: 1 Mo'o
Cooler Temp(including CF): 2.9-0=2.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 871
Tel. 505-345-3975 Fax 505-345-4107
885-22030 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260B
3/20	1500	Water	MW16	3-40mL	HCl												X
3/20	1530	Water	MW17														X
3/20	1730	Water	MW09														X
3/21	0900	Water	MW19														X
3/21	1145	Water	MW12														X
3/21	1215	Water	MW11														X
3/21	1415	Water	MW22														X
3/21	1445	Water	MW18														X
3/21	1520	Water	MW23														X

Date	Time	Relinquished by	Received by	Via	Date	Time
3/24/25	1620	Aaron Lammers			3/24/25	1620
3/24/25	1820			courier	3/25/25	7:10

Remarks: Shyde dburns @ 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: 885-22030-1

Login Number: 22030 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Dominguez, Desiree

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

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 452194

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 452194
	Action Type: [REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by July 15, 2025.	4/17/2025