1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by July 15, 2025.

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 – SVE System Update
L C Kelly 1E
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: nAPP2308124076

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *First Quarter 2025 –SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the L C Kelly 1E natural gas production well (Site). The Site is located on land managed by the Bureau of Land Management (BLM) in Unit C, Section 5, Township 30 North, Range 12 West in San Juan County, New Mexico (Figure 1). The SVE system was put into operation on January 6, 2025, to remediate historical subsurface soil impacts discovered at the Site. This report summarizes Site activities performed in January, February, and March of 2025.

SVE SYSTEM SPECIFICATIONS

The SVE system at the Site consists of a 3-phase, 6 horsepower Roots 42 URAI positive displacement blower capable of producing approximately 140 inlet cubic feet per minute (icfm) flow at 100 inches of water column (IWC) vacuum at Site elevation. The system is powered by a generator capable of operating 24 hours per day. Additionally, a backup generator has been placed at the Site to minimize system downtime if there are operational/maintenance issues with the primary generator. Eleven SVE wells, SVE01 through SVE11, are currently in operation and are shown on Figure 2. The *Updated Site Investigation Report and Remediation Work Plan,* dated June 5, 2024, proposed extraction on SVE wells SVE01, SVE02, and SVE04 through SVE11; however, upon further evaluation, SVE03 was added to the system layout and plumbed to the manifold. The manifold was constructed in such a manner as to allow the wells to be cycled, if necessary.

SYSTEM STARTUP AND FIRST QUARTER 2025 ACTIVITIES

The SVE system began operation on January 6, 2025. Based on the New Mexico Oil Conservation Division (NMOCD) Conditions of Approval (COAs), dated March 15, 2024, operations and maintenance (O&M) visits and/or field data measurements were collected from the system daily for the first week of operation and then weekly thereafter for the remainder of January, February, and March of 2025. Field measurements included the following parameters: total system flow, estimated flow rates from each SVE well, photoionization detector (PID) measurements of volatile organic compounds (VOCs) from each SVE well, vacuum

measurements from each SVE well, and oxygen/carbon dioxide measurements via hand-held analyzers from each SVE well. Field notes taken during O&M visits are presented in Appendix A.

Since startup, all Site SVE wells were operated in order to induce flow in impacted soil zones. Between January 6 and March 26, 2025, the SVE system operated for 1,743.2 hours for a runtime efficiency of 92 percent (%). Appendix B presents photographs of the runtime meter for calculating the first quarter 2025 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percent runtime.

Based on the March 15, 2024, COAs, initial vapor samples were collected on January 6 and January 7, 2025, from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. Prior to collection, the emission sample was field screened with a PID for organic vapor monitoring (OVM). The vapor samples were collected directly into two 1-Liter Tedlar® bags and submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, VOCs following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. Subsequent samples were collected weekly for the first month of operation and then bi-weekly (twice per month). Tables 2 and 3 present a summary of field measurements and analytical data, respectively, collected between January and March of 2025. Full laboratory analytical reports are attached as Appendix C. Graphs 1 and 2 present oxygen and carbon dioxide levels over time, respectively. Vapor sampling will continue bi-monthly (every other month) for the first year of operation.

Vapor sample data and measured stack flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 4). Based on these estimates, 4,054 pounds (2.0 tons) of TVPH have been removed by the system to date.

DISCUSSION AND RECOMMENDATIONS

O&M visits will be conducted at least monthly and bi-monthly (every other month) sampling events will continue to be performed by Ensolum and/or Hilcorp personnel to verify the SVE 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.

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

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

Daniel R. Moir, PG* (licensed in WY & TX)
Senior Managing Geologist
(303) 887-2946
dmoir@ensolum.com

Attachments:

Figure 1	Site Location Map
Figure 2	Radius of Influence and Effect
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Field Measurements
Table 3	Soil Vapor Extraction System Air Analytical Results
Table 4	Soil Vapor Extraction System Mass Removal and Emissions
Graph 1	Oxygen vs Time
Graph 2	Carbon Dioxide vs Time
Appendix A	Field Notes
Appendix B	Project Photographs
Appendix C	Laboratory Analytical Reports

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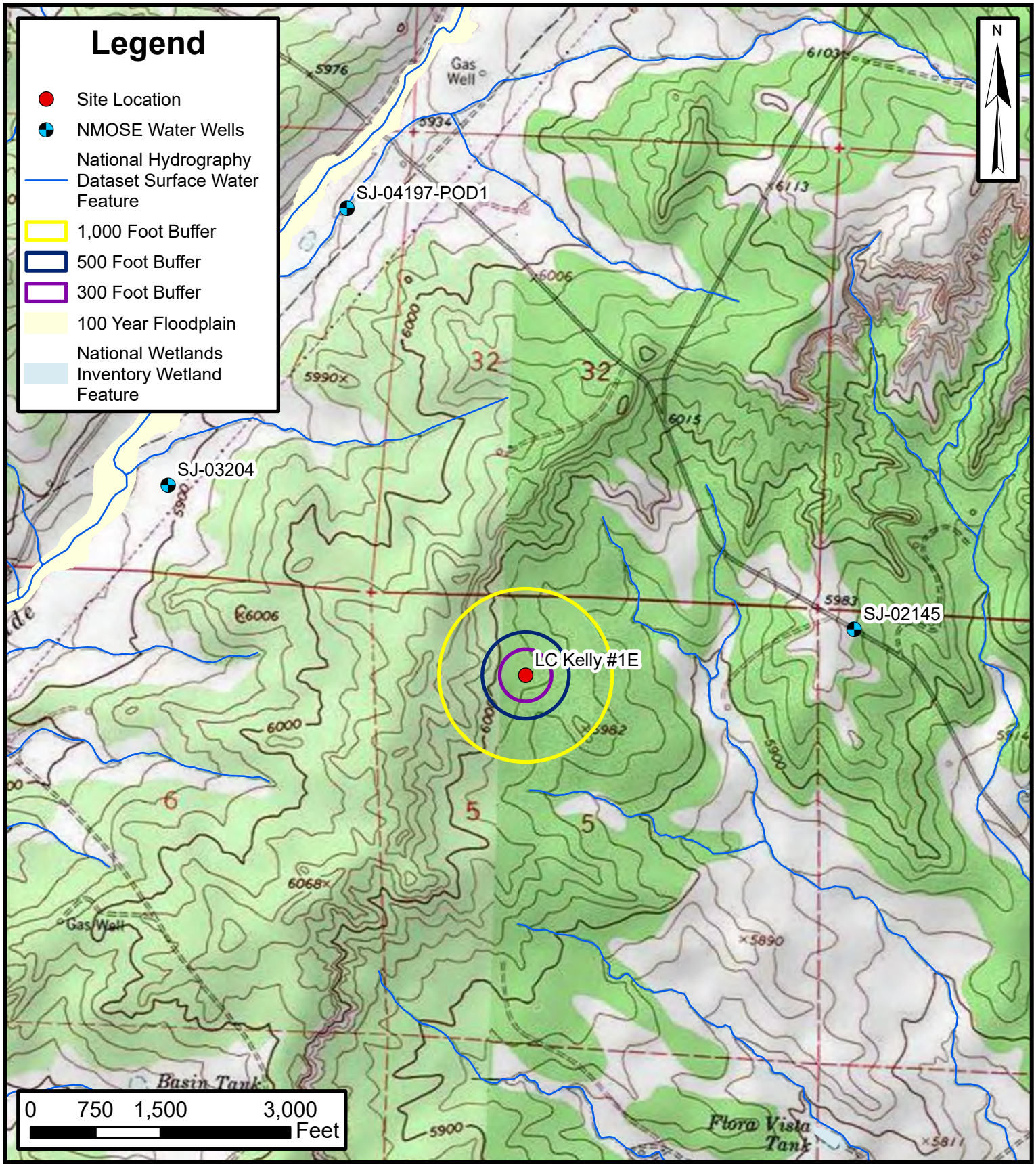
Figures



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Environmental, Engineering and Hydrogeologic Consultants

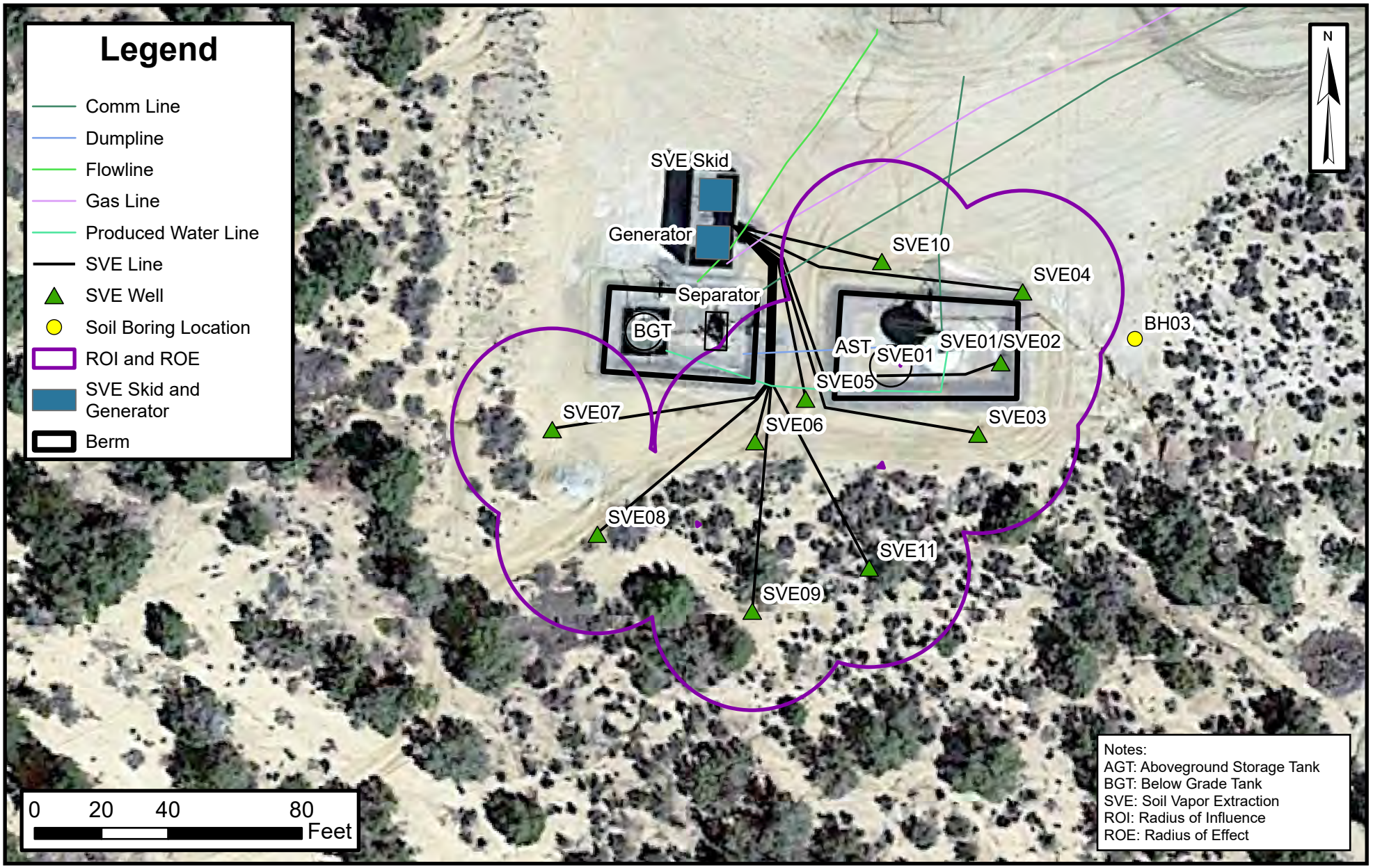
Site Location Map

L C Kelly #1E
Hilcorp Energy Company

36.84600, -108.12450
Unit C, Sec 05, T30N, R12W
San Juan County, New Mexico

FIGURE
1

Sources: Environmental Systems Research Institute (ESRI), National Geographic Society, i-cubed, United States Geologic Survey (USGS), United States Fish and Wildlife Service (USFWS), New Mexico Office of the State Engineer (NMOSE)



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Environmental, Engineering and Hydrogeologic Consultants

SVE System Radius of Influence and Radius of Effect

L C Kelly 1E
Hilcorp Energy Company
36.84600, -108.12450
Unit C, Sec 05, T30N, R12W
San Juan County, New Mexico

FIGURE
2

Sources: Google Earth

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Tables & Graphs

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TABLE 1
SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS
L C Kelly 1E
Hilcorp Energy Company
San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours	Days	Percent Runtime	Cumulative Percent Runtime
1/6/2025	3.7	Startup (1)			
1/7/2025	25.4	21.7	1	90.4%	90.4%
1/8/2025	48.0	22.6	1	94.2%	92.3%
1/9/2025	74.1	26.1	1	108.8%	97.8%
1/10/2025	96.6	22.5	1	93.8%	96.8%
1/14/2025	192.6	96.0	4	100.0%	98.4%
1/22/2025	378.0	185.4	8	96.6%	97.5%
1/29/2025	528.0	150.0	7	89.3%	95.0%
2/5/2025	688.6	160.6	7	95.6%	95.1%
2/12/2025	807.6	119.0	7	70.8%	90.5%
2/19/2025	973.2	165.6	7	98.6%	91.8%
2/26/2025	1,084.2	111.0	7	66.1%	88.3%
3/5/2025	1,242.1	157.9	7	94.0%	89.0%
3/12/2025	1,406.2	164.1	7	97.7%	89.9%
3/26/2025	1,746.9	340.7	14	101.4%	91.9%

Notes:

The initial hour-meter reading prior to startup was 3.7 hours

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TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
L C Kelly 1E
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm)	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
Influent, All Wells	1/6/2025	1,512	0.36	210	134	76.5	2.8	8.6	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	692	0.32	198	127	74.8	2.7	16.9	4.16
	1/9/2025	338	0.36	210	137	68.0	2.5	18.7	>5.0
	1/10/2025	633	0.35	207	135	68.0	2.5	20.1	>5.0
	1/14/2025	293	0.40	221	145	68.0	2.5	20.7	0.78
	1/22/2025	199	0.46	237	161	54.4	2.0	19.9	>5.0
	1/29/2025	654	0.40	221	150	54.4	2.0	19.3	>5.0
	2/5/2025	439	0.34	204	133	68.0	2.5	20.8	>5.0
	2/12/2025	313	0.36	210	143	54.4	2.0	20.9	0.54
	2/19/2025	102	0.35	207	135	68.0	2.5	20.9	0.69
	2/26/2025	368	0.32	198	137	47.6	1.7	20.7	0.98
	3/5/2025	583	0.35	207	143	47.6	1.7	20.9	0.27
	3/12/2025	420	0.38	216	147	54.4	2.0	20.9	0.27
	3/26/2025	508	0.35	207	141	54.4	2.0	20.9	0.43
SVE01	1/6/2025	1,216	--	29	19.1	66.1	2.4	3.7	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	816	--	5	3.3	69.7	2.5	12.1	>5.0
	1/9/2025	614	--	5	3.4	59.6	2.2	14.6	>5.0
	1/10/2025	706	--	5	3.3	62.6	2.3	16.3	>5.0
	1/14/2025	663	--	5	3.4	59.6	2.2	16.5	>5.0
	1/22/2025	586	--	6	4.2	40.2	1.5	19.1	>5.0
	1/29/2025	812	--	7	4.8	50.5	1.8	20.9	0.61
	2/5/2025	1,056	--	5	3.4	52.3	1.9	18.0	>5.0
	2/12/2025	574	--	8	5.5	48.6	1.8	18.4	>5.0
	2/19/2025	470	--	7	4.7	60.1	2.2	20.3	0.95
	2/26/2025	475	--	8	5.5	51.2	1.8	20.5	>5.0
	3/5/2025	678	--	10	6.9	48.1	1.7	20.9	0.13
	3/12/2025	387	--	10	6.8	56.7	2.0	20.1	0.61
	3/26/2025	322	--	6	4.2	48.0	1.7	19.9	>5.0
SVE02	1/6/2025	1,420	--	5	3.3	62.9	2.3	12.1	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	1,335	--	33	21.5	69.6	2.5	20.6	1.26
	1/9/2025	815	--	26	17.4	59.1	2.1	20.9	0.49
	1/10/2025	546	--	26	17.5	57.3	2.1	20.9	0.48
	1/14/2025	470	--	28	18.9	57.1	2.1	20.7	0.59
	1/22/2025	824	--	17	12.1	39.1	1.4	19.8	>5.0
	1/29/2025	583	--	26	18.0	48.0	1.7	16.9	>5.0
	2/5/2025	519	--	28	19.0	55.5	2.0	20.9	0.33
	2/12/2025	512	--	26	17.9	50.7	1.8	20.9	0.59
	2/19/2025	357	--	28	18.9	57.6	2.1	20.9	0.27
	2/26/2025	376	--	26	17.7	53.3	1.9	20.9	0.48
	3/5/2025	691	--	24	16.7	45.6	1.6	20.1	0.59
	3/12/2025	450	--	28	19.3	49.3	1.8	20.9	0.15
	3/26/2025	348	--	22	15.4	45.2	1.6	20.8	0.24
SVE03	1/6/2025	1,370	--	5	3.3	67.1	2.4	14.9	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	793	--	--	--	76.9	2.8	19.5	2.58
	1/9/2025	729	--	5	3.3	66.2	2.4	20.9	>5.0
	1/10/2025	571	--	7	4.6	66.3	2.4	20.4	0.89
	1/14/2025	522	--	8	5.3	65.2	2.4	20.1	0.89
	1/22/2025	222	--	38	26.0	52.8	1.9	20.9	0.21
	1/29/2025	351	--	9	6.2	50.0	1.8	20.8	0.29
	2/5/2025	587	--	7	4.7	56.4	2.0	20.1	0.50
	2/12/2025	114	--	12	8.2	51.7	1.9	20.9	0.25
	2/19/2025	125	--	10	6.7	59.6	2.2	20.9	0.17
	2/26/2025	111	--	12	8.1	57.2	2.1	20.9	0.16
	3/5/2025	537	--	8	5.6	44.1	1.6	20.9	0.09
	3/12/2025	428	--	10	6.9	49.8	1.8	20.9	0.12
	3/26/2025	418	--	10	7.0	41.7	1.5	20.9	0.12
SVE04	1/6/2025	1,095	--	5	3.2	74.4	2.7	10.5	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	623	--	5	3.1	81.1	2.9	11.5	>5.0
	1/9/2025	429	--	5	3.3	63.5	2.3	11.9	>5.0
	1/10/2025	415	--	5	3.3	67.2	2.4	14.6	>5.0
	1/14/2025	480	--	5	3.3	66.1	2.4	16.1	>5.0
	1/22/2025	650	--	--	--	--	--	17.8	--
	1/29/2025	Well Offline - In Need of Repairs							
	2/5/2025	267	--	--	--	68.8	2.5	19.2	>5.0
	2/12/2025	276	--	--	--	56.3	2.0	20.1	>5.0
	2/19/2025	142	--	--	--	65.4	2.4	19.7	>5.0
	2/26/2025	102	--	--	--	65.2	2.4	20.7	0.89

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TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
L C Kelly 1E
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm)	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE04	3/5/2025	689	--	--	--	51.7	1.9	18.2	>5.0
	3/12/2025	574	--	--	--	58.5	2.1	19.0	>5.0
	3/26/2025	481	--	--	--	50.2	1.8	19.0	>5.0
SVE05	1/6/2025	1,602	--	10	6.6	63.8	2.3	4.5	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	1,067	--	14	9.3	60.9	2.2	12.0	>5.0
	1/9/2025	1,081	--	14	9.4	60.5	2.2	15.3	>5.0
	1/10/2025	867	--	14	9.3	61.3	2.2	16.5	>5.0
	1/14/2025	776	--	16	10.7	59.2	2.1	20.9	>5.0
	1/22/2025	578	--	22	15.2	49.8	1.8	20.9	>5.0
	1/29/2025	619	--	25	17.3	47.8	1.7	20.1	>5.0
	2/5/2025	563	--	30	20.2	58.1	2.1	20.7	>5.0
	2/12/2025	208	--	35	24.2	49.2	1.8	20.1	>5.0
	2/19/2025	301	--	34	23.3	51.2	1.8	20.1	>5.0
	2/26/2025	178	--	25	17.0	54.8	2.0	20.4	>5.0
	3/5/2025	682	--	24	16.7	46.1	1.7	20.6	0.43
	3/12/2025	386	--	30	20.7	50.1	1.8	20.4	0.54
	3/26/2025	318	--	25	17.3	48.1	1.7	20.9	0.29
SVE06	1/6/2025	1,265	--	28	18.7	60.3	2.2	5.8	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	1,327	--	33	22.4	55.6	2.0	18.6	2.62
	1/9/2025	267	--	30	20.1	60.1	2.2	20.0	>5.0
	1/10/2025	213	--	30	20.1	59.6	2.2	20.9	0.01
	1/14/2025	190	--	36	24.1	60.0	2.2	20.9	0.08
	1/22/2025	653	--	38	25.5	59.1	2.1	20.7	0.65
	1/29/2025	729	--	36	25.4	41.1	1.5	20.9	0.78
	2/5/2025	708	--	32	22.5	41.7	1.5	20.9	0.32
	2/12/2025	309	--	38	26.0	52.5	1.9	20.9	0.45
	2/19/2025	503	--	38	26.8	41.1	1.5	20.9	0.84
	2/26/2025	231	--	14	9.9	40.2	1.5	20.9	0.64
	3/5/2025	733	--	7	4.9	40.8	1.5	20.9	0.14
	3/12/2025	591	--	11	7.7	44.1	1.6	20.9	0.24
	3/26/2025	610	--	28	19.9	39.2	1.4	20.9	0.21
SVE07	1/6/2025	231	--	17	11.3	63.5	2.3	7.2	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	684	--	--	--	57.7	2.1	20.9	0.44
	1/9/2025	392	--	18	11.9	63.9	2.3	17.5	>5.0
	1/10/2025	311	--	18	11.9	64.8	2.3	20.9	0.01
	1/14/2025	281	--	18	11.8	66.0	2.4	20.9	0.04
	1/22/2025	366	--	18	12.1	57.2	2.1	20.1	0.67
	1/29/2025	465	--	18	12.2	55.3	2.0	20.3	0.75
	2/5/2025	501	--	18	11.9	63.6	2.3	19.4	>5.0
	2/12/2025	398	--	18	12.7	40.3	1.5	19.1	>5.0
	2/19/2025	277	--	20	13.6	54.2	2.0	20.4	>5.0
	2/26/2025	225	--	18	12.0	62.2	2.2	20.9	>5.0
	3/5/2025	631	--	18	12.4	50.6	1.8	19.4	0.89
	3/12/2025	600	--	18	12.3	52.8	1.9	19.1	0.76
	3/26/2025	269	--	12	8.3	48.7	1.8	19.9	0.54
SVE08	1/6/2025	517	--	13	8.6	64.3	2.3	7.3	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	621	--	18	12.1	58.5	2.1	16.5	>5.0
	1/9/2025	281	--	14	9.4	60.0	2.2	17.3	>5.0
	1/10/2025	18	--	14	9.3	61.3	2.2	18.0	>5.0
	1/14/2025	412	--	15	9.9	63.8	2.3	19.1	>5.0
	1/22/2025	318	--	7	4.8	52.7	1.9	20.4	>5.0
	1/29/2025	331	--	18	12.2	55.6	2.0	18.9	>5.0
	2/5/2025	259	--	15	10.0	62.3	2.2	19.8	>5.0
	2/12/2025	152	--	8	5.4	54.0	1.9	19.7	0.82
	2/19/2025	127	--	18	11.9	65.0	2.3	20.5	>5.0
	2/26/2025	113	--	16	10.7	61.4	2.2	20.5	>5.0
	3/5/2025	394	--	8	5.5	48.3	1.7	19.6	0.58
	3/12/2025	276	--	15	10.4	49.1	1.8	19.8	0.62
	3/26/2025	281	--	8	5.5	52.0	1.9	20.1	0.60
SVE09	1/6/2025	685	--	5	3.3	61.2	2.2	9.4	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	635	--	5	3.2	72.7	2.6	17.2	4.86
	1/9/2025	727	--	5	3.3	63.2	2.3	19.1	>5.0
	1/10/2025	294	--	8	5.3	64.6	2.3	20.9	0.79
	1/14/2025	362	--	7	4.6	63.1	2.3	20.9	0.80
	1/22/2025	207	--	5	3.4	53.4	1.9	20.8	>5.0
	1/29/2025	308	--	6	4.1	49.3	1.8	20.8	>5.0

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TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
L C Kelly 1E
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm)	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE09	2/5/2025	341	--	7	4.7	57.3	2.1	20.9	0.90
	2/12/2025	131	--	6	4.1	56.0	2.0	20.9	0.82
	2/19/2025	336	--	12	8.0	61.5	2.2	20.9	0.57
	2/26/2025	198	--	8	5.4	59.2	2.1	20.9	0.68
	3/5/2025	365	--	5	3.4	51.0	1.8	20.9	0.22
	3/12/2025	489	--	--	--	49.8	1.8	20.9	0.36
	3/26/2025	421	--	5	3.4	51.1	1.8	20.9	0.24
SVE10	1/6/2025	1,307	--	5	--	71.9	--	3.0	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	1,250	--	5	3.2	77.9	2.8	8.9	>5.0
	1/9/2025	699	--	5	3.3	62.4	2.3	11.7	>5.0
	1/10/2025	429	--	5	3.3	67.7	2.4	14.5	>5.0
	1/14/2025	518	--	5	3.3	66.6	2.4	17.2	0.80
	1/22/2025	1,385	--	5	3.5	42.2	1.5	20.3	>5.0
	1/29/2025	672	--	5	3.7	18.9	0.7	14.9	>5.0
	2/5/2025	714	--	5	3.5	46.4	1.7	13.9	>5.0
	2/12/2025	530	--	5	3.4	58.5	2.1	13.3	>5.0
	2/19/2025	195	--	12	8.0	63.1	2.3	18.8	>5.0
	2/26/2025	214	--	30	20.1	59.5	2.1	19.8	>5.0
	3/5/2025	1,056	--	--	--	49.8	1.8	15.2	>5.0
	3/12/2025	941	--	--	--	45.9	1.7	16.1	>5.0
	3/26/2025	850	--	5	3.5	48.9	1.8	17.8	>5.0
SVE11	1/6/2025	846	--	7	4.7	61.8	2.2	12.5	>5.0
	1/7/2025	--	--	--	--	--	--	--	--
	1/8/2025	718	--	8	5.2	72.7	2.6	17.7	3.50
	1/9/2025	699	--	5	3.3	63.0	2.3	19.0	>5.0
	1/10/2025	449	--	5	3.4	57.8	2.1	19.5	>5.0
	1/14/2025	701	--	5	3.4	55.1	2.0	19.1	0.79
	1/22/2025	276	--	11	7.4	58.1	2.1	20.8	0.21
	1/29/2025	278	--	6	3.8	74.5	2.7	20.9	0.21
	2/5/2025	364	--	5	3.6	29.1	1.1	20.9	0.84
	2/12/2025	134	--	5	3.6	33.6	1.2	20.9	0.96
	2/19/2025	63	--	5	3.6	31.1	1.1	20.9	0.79
	2/26/2025	176	--	15	11.0	27.2	1.0	20.9	0.49
	3/5/2025	455	--	8	5.6	41.7	1.5	20.9	0.28
	3/12/2025	398	--	10	7.0	44.2	1.6	20.9	0.42
	3/26/2025	201	--	10	7.0	42.3	1.5	20.9	0.21

Notes:

IWC: inches of water column
PID: photoionization detector
ppm: parts per million
acfm: actual cubic feet per minute
scfm: standard cubic feet per minute
%: percent
--: not measured

ENSOLUM

TABLE 3
SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS
LC Kelly 1E
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 (%)
1/6/2025	1,512	410	270	26	240	57,000 E	7.65%	12.40%
1/7/2025	--	310	420	40	350	39,000	14.78%	5.20%
1/14/2025	293.2	31	55	4.0	35	3,700	20.71%	1.06%
1/22/2025	198.9	7.9	10	*<2.0*	*<3.0*	1,200	20.82%	0.75%
1/29/2025	653.8	20	68	7.2	71	4,300	20.81%	1.21%
2/5/2025	439.2	8.6	51	5.0	49	2,500	20.97%	0.89%
2/12/2025	313.2	8.9	58	*<5.0*	25	2,500	21.53%	0.74%
3/12/2025	101.6	*<5.0*	6.1	*<5.0*	*<7.5*	660	21.22%	0.70%
3/26/2025	508.2	3.7	28	4.8	56	2,000	21.36%	0.56%

Notes:

GRO: gasoline range organics

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

Gray: less than laboratory reporting limit

E: result exceeded calibration range

ENSOLUM

TABLE 4
SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS
L C Kelly 1E
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)
1/6/2025	1,512	410	270	26	240	57,000
1/7/2025	--	310	420	40	350	39,000
1/14/2025	293.2	31	55	4	35	3,700
1/22/2025	198.9	8	10	*<2.0*	*<3.0*	1,200
1/29/2025	653.8	20	68	7	71	4,300
2/5/2025	439.2	9	51	5	49	2,500
2/12/2025	313.2	9	58	*<5.0*	25	2,500
3/12/2025	101.6	*<5.0*	6	*<5.0*	*<7.5*	660
3/26/2025	508.2	3.7	28	4.8	56	2,000
Average	503	89	107	11	93	12,540

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)
1/6/2025	134	System Startup						
1/7/2025 [(1)]	134	174,468	174,468	0.180	0.17	0.0165	0.148	24.1
1/14/2025	145	1,454,640	1,454,640	0.092	0.13	0.0119	0.104	11.6
1/22/2025	161	1,790,964	1,790,964	0.012	0.02	0.0018	0.011	1.48
1/29/2025	133	1,197,000	1,197,000	0.007	0.02	0.0023	0.018	1.37
2/5/2025	133	1,281,588	1,281,588	0.007	0.03	0.0030	0.030	1.69
2/12/2025	143	1,021,020	1,021,020	0.005	0.03	0.0027	0.020	1.34
3/12/2025	147	1,460,592	1,460,592	0.004	0.02	0.0027	0.009	0.87
3/26/2025	141	6,545,502	6,545,502	0.002	0.01	0.0026	0.017	0.70
			Average	0.039	0.053	0.0055	0.045	5.38

Mass Recovery

Date	Total Operational Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
1/6/2025	3.7				System Startup			
1/7/2025	25.4	22	3.9	3.8	0.36	3.2	522	0.26
1/14/2025	192.6	167	15.5	22	1.99	17	1,936	0.97
1/22/2025	378.0	185	2.2	4	0.3	2	274	0.14
1/29/2025	528.0	150	1.0	2.9	0.34	2.8	205	0.10
2/5/2025	688.6	161	1.1	5	0.5	4.8	272	0.14
2/12/2025	807.6	119	0.6	3	0.3	2	159	0.08
3/12/2025	973.2	166	0.6	3	0.5	1	144	0.07
3/26/2025	1,746.9	774	1.8	7	2.0	13	543	0.27
		Total Mass Recovery to Date	27	50	6	47	4,054	2.0

Notes:

(1) Flow rate for 1/7/2025 estimated as the flow rate from the previous day

cf: cubic feet

scfm: cubic feet per minute

µg/L: micrograms per liter

lb/hr: pounds per hour

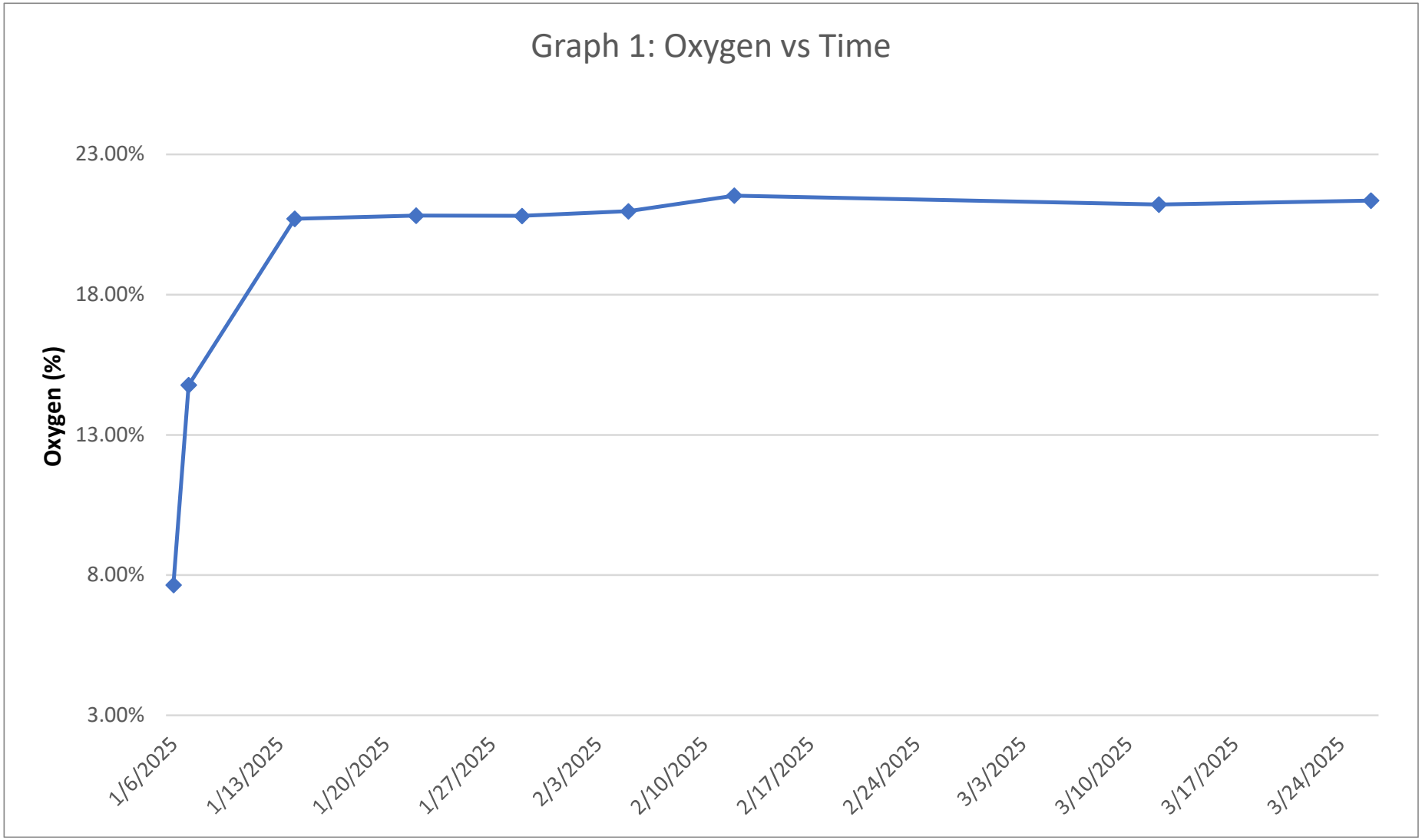
PID: photoionization detector

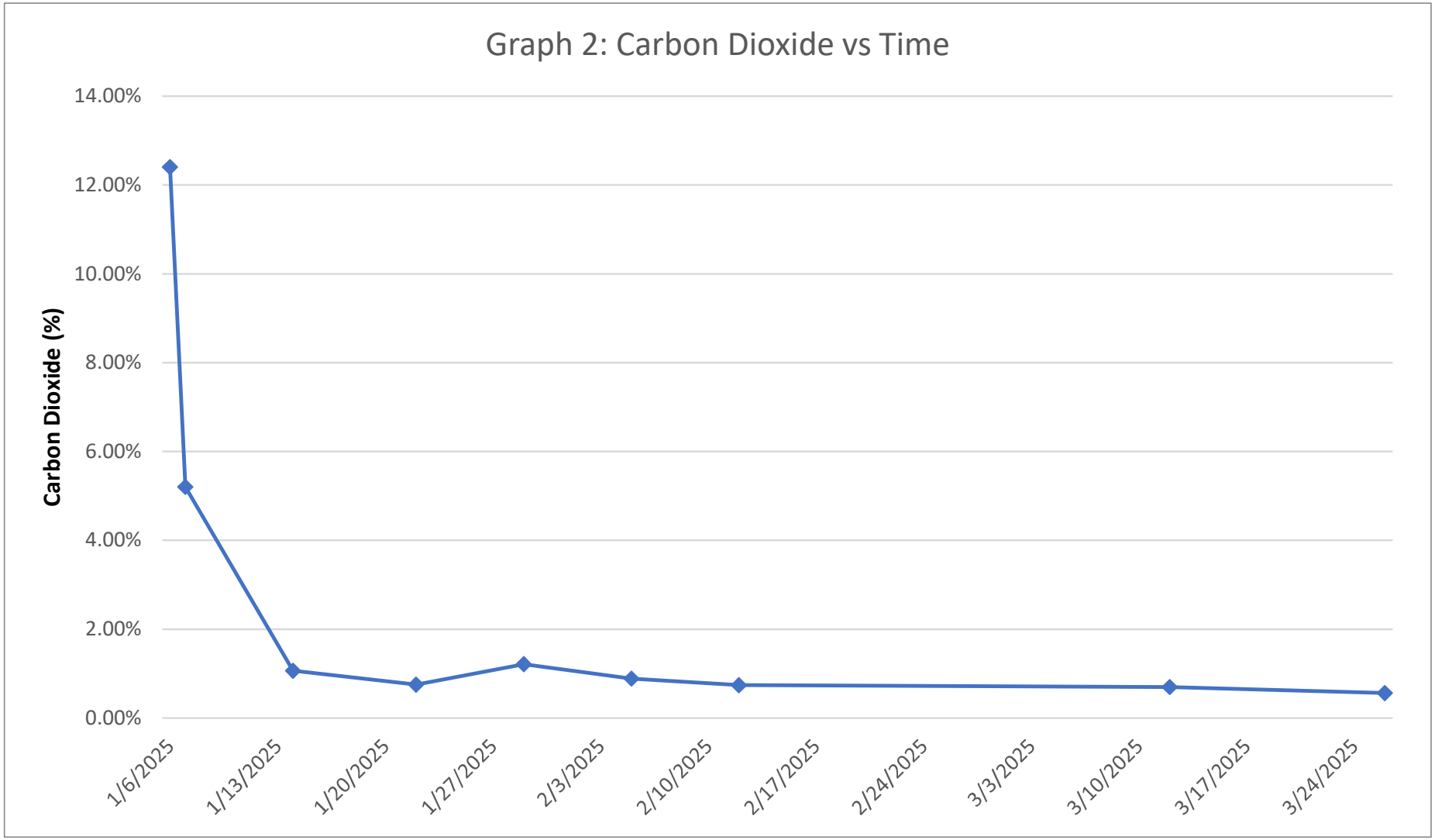
ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

--: not measured

gray: laboratory reporting limit used for calculating emissions





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APPENDIX A

Field Notes

Location LC Kelly #1E Date 1-6-25 65

Project / Client

	Well head Vac			PID
MW05	63.8			DB
03		vol%	vol%	
SVE	Vac Inc	O_2	CO_2	PID
~~MW05~~	63.8	4.5	>5.0	1,602
03	67.1	14.9	>5.0	1,370
11	61.8	12.5	>5.0	846
09	61.2	9.4	>5.0	685
08	64.3	7.3	>5.0	517
07	63.5	7.2	>5.0	231
06	60.3	5.8	>5.0	1,265
01A Deep	66.1	3.7	>5.0	1,216
01B	62.9	12.1	>5.0	1,420
04	74.4	10.5	>5.0	1,095
10	71.9	3.0	>5.0	1,307

13:10 - Influent 1-6-25 air sample collected

PID - 1,512 ppm

CH_4 - 2.15 vol%

Oxy - 8.6 vol%

H_2S - 0.0 ppm

CO - 0 ppm

CO_2 - >5.0 vol%

CH_4 - 55% LEL

Influent vac - 76.5 inc gauge 5.0 in Hg

Influent Diff press 0.36 inc 4" pitot

Location LC Kelly #1E Date 1-6-25

Project / Client

DB/AL SVE O+M cont'd

Manifold Readings @ 13:30

Well	Vac in Hg	Flow	Liquids?
SVE01	4.0	29	Maybe, little
02	4.0	5	
03	4.0	>5	
04	4.5	>5	
05	4.0	10	
06	9.5	28	Y
07	3.5	17	
08	4.5	13	
09	4.5	>5	
10	4.5	>5	
11	4.5	7	Y

Thermo anemometer in 4" sch 80
1,130 FPM @45.6 °F

1410 - Shut down system so Bryan can work on generator (back up)
1440 - Back on.

Hrs - 3.7 @ 15:05

Date 1/7/25

Location

Project / Client LC Kelly O&M

AA/DB

Added 1/2 Qt. of oil to generator

Readings @ 1100

Blower Hrs - 48.0

LO ENG TEMP Generator Hrs - 468.0

VFD Hz - 60.0 Amps -

PG KO VAC - 5.5 in H/g

Diff. Pressure - 0.32 in H_2O

Influent vac. 70.1 iwc

PID - 692 ppm

CH_4 - 1.00 vol %

Oxy - 16.9 vol %

H_2S - 0.0 ppm

CO - 0 ppm

CO_2 - 4.16 v.l %

CH_4 - 10 % LEL

Exhaust - 2,148 ppm

1

Date 1/7/25

Location LC Kelly 1E Date 1-8-25

Project / Client GEM contld

WELL	IWC VAC	PPM PID	vol% dry	vol% CO_2	%LEL CH_4
MW 01	69.7	816	12.1	>5	9
02	69.6	1335	20.6	1.26	13
03	76.9	793	19.5	2.58	6
04	81.1	623	11.5	>5	6
05	60.9	1,067	12.0	>5	16
06	55.6	1,327	18.6	2.62	19
07	57.7	684	20.9	0.44	1
08	58.5	621	16.5	>5	6
09	72.7	635	17.2	4.86	6
10	77.9	1,250	8.9	>5	11
11	72.7	718	17.7	3.5	5

WELL	VAC inHg	FLOW SCFM	Liquids	@ 12 HG
MW 01	4.5	5	Yes	
02	4.5	33	Yes/Lite	
03 LOCKED	4.5			
04	4.5	>5		
05	5.0	~~8~~ 14	Yes	
06	10.0	33	Yes/Lite	
07 DRY				
08	5.0	18	Yes/Lite	
09	4.5	>5	Yes	
10	4.5	5	Yes	
11	6.0	8.0	Yes	

Location LC Kelly II

Project / Client Odm

Date 1/9/25

900 to LC Kelly

1015 Onsite, system running, PPE, Check

Wellheads

MW07 wellhead tape disco, grading & ext. Turned off, cleared flow stems tube. Tape MW07 connect. MW10, clogged pedd debris with blower. 03, 04, 07 frozen Flow tubes

1445 offsite, drop off samples

Bypass heat trace fuse is tripped

Readings @ 1100

Blower Hrs — 74.1

VFD Hz — 60.0

Pre Ko Vac — ~~5.08~~ 5.0 inHg

Diff Pressure — 0.36 in H_2O

Influent: 01924 Vac 70.8 inWC

PID: 338.4 ppm

CH4: 8 %LEL

Oxy: 18.7 %

H_2S: 0.0 ppm

CO: 4 ppm

CO_2: OVER

CH_4:

Exhaust PID — 3636

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Location LC Kelly Date 1/9/25

Project / Client O&M CONTD

@ 1115

WELL	VAC inWC	PID PPM	Oxy Vol%	CO_2 PPM 50000 limit	CH_4 %LEL
MW 01	59.6	614.2	14.6	Over	10
02	59.1	814.6	20.9	4940	6
03	66.2	729.1	20.9	Over	.6
04	63.5	429.1	11.9	Over	10
05	60.5	1081	15.3	Over	12
06	60.1	266.9	20.0	Over	8
07	63.9	391.7	17.5	Over	7
08	60.0	230.8	17.3	Over	6
09	63.2	726.8	19.1	Over	6
10	62.4	362.1	11.7	Over	8
11	63.0	698.5	19.0	Over	6

@ 1215

WELL	VAC inHg	FLOW SCFM	Liquids
MW 01	4.5	>5	Yes
02	4.0	26	Lite
From 03	4.5	>5	Lite
From 04	4.5	>5	Lite
05	4.0	14	Yes
06	10.0	30	Yes
From 07	5.5	18	Yes
08	4.5	14	Yes
09	4.0	5	Yes
Dry Well 10	4.5	>5	No
11	5.5	>5	Yes

Location LC Kelly 1E
Date 1/10/23
Project / Client O&M
Awarl

~~1000~~ onsite
1030 System running, PPE
O&M, generator oil level over/good. KO tank @ 1/16 in.
MW01, 10, 03, 09 flow tubes flooded/slushy
blowout tubes,

1400 offsite
Readings @ 1115
Blower Hrs: 96.6
VFD Hz: 60.0
Pre KO VAC: 5.0
Diff Pressure 35.0

Influent VAC ~~33~~.0 inc
PID: ~~3397~~ 6333 ppm
CH4: 6 %LEL
Oxy: 20.1 %
H2S: 0.0 ppm
CO: 0 ppm
CO2: OVER
CH4:

Exhaust PID: 3397 ppm

Location LC Kelly

Project / Client OfM CONTD

Date 1/10/25

Arom

WELL	VAC inW	PID ppm	O_2 Vol%	CO ppm	CH_4 %LEL
MW01	62.6	706.4	16.3	Over	8
02	57.3	546.2	20.9	4820	2
03	66.3	571.3	20.4	8920	2
04	67.2	414.8	14.6	Over	6
05	61.3	866.8	16.5	Over	8
06	59.5	213.3	20.9	440	0
07	64.8	310.8	20.9	540	1
08	61.3	18.0	18.0	Over	2
09	64.6	294.2	20.9	7880	0
10	67.7	428.6	14.5	Over	6
11	57.8	448.8	19.5	Over	1

WELL	VAC inHg	FLOW SCFM	Liquids	@ 1135
MW01	4.0	>5	Yes/Foam	
02	4.0	26	Yes	
03	4.0	7	Yes	
04	4.5	5	No	
05	4.0	14	Yes	
06	9.5	30	Yes	
07	5.5	18	Yes/Foam	
08	4.0	14	Yes	
09	4.5	8	Yes	
10	5.0	>5	Yes	
11	5.5	>5	Yes	

Location LC Kelly 1E Date 4/4/25

Project / Client O&M Aaron L

1030 Onsite. Safety tailgate (running). PPE, start O&M

Lines into flow tube have some ice.

Slush or frozen flow tubes, pulled lines, flushed

Took reading before and after line flush

Samples and maintenance KO tank

Drained about 40 gallons of water from KO tank

Readings @ 1115

Blower Hrs : 192.6

VFD Hz : 60.0

Pre KO VAC : 5.0

Diff Pressure : 40

@1140 Influent: ~~793.2~~ 2000 VAC: 7.2 inc

PID : 793.2 ppm

CH_4 : 6 %LEL

Oxy : 20.7 %

H_2S : 00 ppm

CO : 3 ppm

CO_2 : 7780 ppm

Exhaust PID: 2841 ppm

Location LC Kelly 1E Date 1/14/25

Project / Client O&M CONT'D Aeroll

WELL	VAC "HG	PID PPM	Oxy VOL %	CO_2 PPM	CH_4 %LEL
MW 01	59.6	662.6	16.5	Over	6
02	57.1	468.9	20.7	5880	2
03	65.2	521.9	20.1	8880	2
04	66.1	480.1	16.1	Over	5
05	59.2	776.1	20.9	Over	8
06	60.0	189.5	20.9	820	0
07	66.0	280.0	20.9	440	0
08	63.8	412.3	19.1	Over	2
09	62.E	361.7	20.9	8000	0
10	66.6	518.2	17.2	8000	7
11	59.1	701.1	19.1	7880	1

WELL	VAC "HG	Flow SCFM	Liquids
01	4.5	>5	Yes
02	4.0	28	Yes
03	4.0	8	Full - Ice in line
04	4.5	>5	Full - Frozen in line
05	4.0	16	Yes
06	10.0	36	Lite / Frozen
07	6.0	18	Lite
08	4.5	15	Yes / Frozen
09	4.5	7	Full
10	4.5	>5	Full - Frozen in line

Location LC Kelly 1E Date 1/22/25

Project / Client O&M Accel

1050 Travel to LC Kelly

1150 Onsite, system running

MW04 rotameter broken, frozen. DISCO, shut off

Water/ice in KO tank filter. MW10 rotameter

cracked, reseal w/ cement/PVC tape

MW03 rotameter elbow cracked, DISCO, shut off

Call Dany to update, Lowe Power to 32.0 Hz

Restart Blower, empty KO tank, 36 gallons

Readings @ 1215

Blower Hrs: 378.0

VFD Hz: 60.0

Pre KO VAC: 4.0

Diff Pressure: 46

Influent: @1410 VAC 54.5 inWC

PID: 198.9

CH4: 0

Oxy: 19.9

H_2S: 0.0

CO: 4

CO_2: Over

CH_4: NA

Exhaust PID: 78.8

WELL	VAC inH2O	PID PPM	Oxy %LEL	CO_2 ppm	CH_4 %LEL
01	40.2	585.6	19.1	Over	7
02	39.1	824.1	19.8	Over	5
03	52.8	221.9	20.9	2100	2
04	~~0~~ NA	646.9	17.8	———	6
05	49.8	578.2	20.9	Over	3
06	59.1	653.4	20.7	6480	4
07	57.2	365.6	20.1	6660	5
08	52.7	318.4	20.4	Over	0
09	53.4	207.9	20.8	Over	1
10	42.2	1385	20.3	Over	23
11	58.1	276.1	20.8	2120	0

WELL	VAC inH2O	FLOW SCFM	Liquids @ 1300
01	2.0	6	Heavy
02	2.0	17	Lt
03	~~3~~ 2.5	38	Lite/Mist
04	NA	NA	NA
05	2.5	22	Lite
06	8.0	38	Lite
07	5.0	18	Lite
08	3.0	7	Lite
09	3.0	5	Slush
10	3.0	>5	Heavy/Slush
11	5.0	11	Heavy

Sample
BH01
BH02
BH03
BH04
BH05
BH06

Location LC Kelly #1R Date 1/29/25

Project / Client Ojim Acral

8.25

0900 Travel to LC Kelly

1030 Onsite, JSA/PPE. Multiple well flooded and frozen/slush. Shut ~~off~~ blowers off, drained +50 gallons from KO tank. Flushed lines w/ leaf blower, 15 gallons in lines. Repair/replace broken parts on well/blower manifold, MW10 cracked and elbow. Install welding blankets

1330 Restarted blower. Flushed flooded lines. Take 2nd readings and start individual well readings

Readings @ 1100	@ 1405
Blower Hrs : ~~32.01~~ 528.0	528.7
VFD Hz : 32.01	55.55
Pre KO VAC : 3.8	4.0
Diff Pressure: 38	0.40

Influent @ 1455 VAC 62.0 iwc

PID : 653.8

CH_4 : 5

Oxy : 19.3

H_2S : 0.0

CO : 1

CO_2 : OVER

~~Exhaust~~

Exhaust PID : 788.5

1520 - Offsite, drop off sample

~~DCR~~ 1600 Standard check, OK

1715 S/R

130

Location _____ Date 11/29/23

Project / Client O&M CONT'D

WELL	VAC "ICW	PID PPM	Oxy Vol%	CO_2 PPM	CH_4 LEL%
MW01	50.5	811.8	20.9	6080	6
02	48.0	583.1	16.9	OVER	9
03	50.0	351.0	20.8	2080	1
04	OFF / DISCO		~~20.4~~	~~2060~~	~~0~~
05	47.8	618.6	20.1	OVER	2
06	41.1	728.7	20.9	7800	3
07	55.3	465.3	20.3	7480	4
08	55.6	333.1	18.9	OVER	0
09	49.3	307.9	20.8	OVER	1
10	18.57	672.2	14.9	OVER	12
11	74.5	277.9	20.9	2060	0

WELL	VAC "inHg	FLOW SCFM	Liquids
MW01	4.0	7	Flooded
02	3.5	26	Lite
03	3.5	9	Yes / Flooded
04	Off / DISCO		
05	3.0	25	No
06	8.5	36	Lite
07	6.0	18	Lite
08	4.0	18	Lite
09	3.5	6	Flooded
10	1.5	>5	Line is flooded
11	4.5	6	Yes Flooded

Location LC Kelly #1F Date 2/5/25

Project / Client O+M / Sampling

Truck/tools, PID, Manifold, Vacuum, Multigas

0830 Travel to LC Kelly

1000 On site, PPE LSA, system running

Flush lines, some rotameters flooded/ frozen. Drain +40 gallons from KO tank

Replaced MW04 line, open and flush. Low VAC

Blow out lines, heavy sediment and slush

collect samples. Adjust welding blankets

Readings @ 1120

Blower Hrs: 688.6 VFD Hrs: 55.55

Pre KO VAC: 5.0

Diff Pressure: 34

Influent @ 1320 VAC: 71.6

PID: 439.2

CH_4: 0

Oxy: 20.8

H_2S: 0.8

CO: 0.0

CO_2: OVER

Exhaust PID: 613.1

Location _____ Date 2/5/25

Project / Client O & M CONT'D

WELL	VAC "ICW	PID PPMx	OXY Vol%	CO_2 PPM	CH_4 LEL%
MW01	52.3	1056	18.0	OVER	6
02	55.5	518.9	20.9	3320	0
03	56.4	586.8	20.1	5020	1
04	68.8	266.7	19.2	OVER	5
05	58.1	563.1	20.7	OVER	1
06	4.17	708.2	20.9	3240	0
07	63.6	501.1	19.4	OVER	1
08	62.3	259.4	19.8	OVER	0
09	57.3	340.7	20.9	8980	0
10	46.4	73.7	13.9	OVER	8
11	29.1	363.7	20.9	8380	0

~~WELL~~	VAC "Hg	FLOW SCFM	Liquids	
MW 01	3.5	>5	Yes	
02	4.0	28	Lite	
03	4.0	7	Yes	
04	1.0	NA	NA	Frozen Line In
05	4.0	30	NO	
06	5.0	32	No	
07	5.5	18	Lite	
08	4.5	15	Lite	
09	4.0	7	Yes	
10	3.5	>5	Yes	
11	2.5	>5	Yes	

Location LC Kelly #1E Date 2/12/25 133

Project / Client O&M/Sampling AL

Truck/Tools, HVAC Pump, Multigas, VAC, PID

0830 Travel to LC Kelly

1000 Onsite, PPE/JSA

Welding blanket, blower off mfg. Fold

System running. Flush lines, heavy fluids

in rotameters. Shut off/drain KO tank

32 gallons, frozen spent and filter.

Found blankets, reinstall. Samples

Readings @ 1100

Blower Hrs: 807.6 VFD Hrs: 55.55

Pre KO VAC: 4.0

Diff Pressure: 36

Influent @ 1240 VAC: 62.6

PID: 313.2

CH4: 0

Oxy: 20.9

H_2S: 0.0

CO: 0

CO_2: 5420

Exhaust PID: 512.2

Rite in the Rain

Location LC Hully #1E Date 2/12/25

Project / Client O&M Cont'd

WELL	VAC	PID	Oxy	CO_2	CH_4
01	48.6	574.0	18.4	OVER	0
02	50.7	512.2	20.9	5860	0
03	51.7	114.2	20.9	2460	0
04	56.3	275.6	20.1	OVER	3
05	49.2	208.1	20.1	OVER	1
06	52.5	308.9	20.9	4480	0
07	40.3	397.6	19.1	OVER	0
08	54.0	151.9	19.7	8220	0
09	56.0	130.5	20.9	8160	0
10	58.5	529.9	13.3	OVER	10
11	33.6	133.8	~~13.3~~ 20.9	9620	0

WELL	VAC	FLOW	Liquids
01	4.0	8	Heavy
02	4.5	26	Light
03	4.5	12	Light
04	2.0	NA	Heavy
05	4.5	35	~~0~~
06	5.0	38	~~0~~
07	4.5	18	Light
08	4.0	8	Yes
09	4.0	6	Yes
10	5.0	5	Yes/sediment
11	4.0	5	Heavy/sediment

Location LC Kelly #1E Date 2/19/25

Project / Client O&M Agave

1100 Onsite

JSA / PPE. System running Multiple lines / rotameters full of fluids. Flushed and cleaned out lines and rotameters. Take readings NOX meters and clean. Turn off blower and clean KO tank

1400 offsite

Readings @ 1130

Blower Hrs : 973.2

VFD Hz : 55.55

Pre KO VAC : 5.0

Diff Pressure : 35

Influent @ 1135

VAC : 74.6

PID : 101.6

CH_4 : 0

Oxy : 20.9

H_2S : 0

CO : 2

CO_2 : 6880

Exhaust PID : 417.2

Project / Client

WELL	VAC	PID	Oxy	CO_2	CH_4
MW01	60.1	470.0	20.3	9480	0
02	57.6	357.1	20.9	2680	0
03	59.6	124.8	20.9	1720	0
04	65.4	141.8	19.7	OVER	0
05	51.2	301.1	20.1	OVER	1
06	41.1	503.1	20.9	8440	1
07	54.2	277.1	20.4	OVER	1
08	65.0	127.2	20.5	OVER	0
09	61.5	336.4	20.9	5720	0
10	63.1	194.9	18.8	OVER	0
11	31.1	62.8	20.9	7860	0

WELL	VAC	FLOW	Fluids
MW01	4.5	7	Heavy
02	4.5	28	Light
03	4.5	10	Heavy
04	2.5	NA	NA
05	4.0	34	NO
06	6.0	38	Light
07	4.5	20	Yes
08	4.5	18	Yes
09	4.5	12	Heavy
10	5.0	12	Heavy
11	4.0	>5	Heavy

Location LC Kelly #1E

Date 2/26/25

Project / Client OAM

0900 To LC Kelly, PU detergent/wantes

1030 Onsite, calibrate. WINDY/DUSTY

Start OAM. Well readings, manifold, service and rebuild rotameters on manifold. Flush lines. Well head readings KO Blower/VFD.

KO Tank - 18 gallons emptied, brown and foamy

Oil in ginny. Grease motor/pully

1500 Offsite

Readings @ 1200

Blower Hrs: 1084.2

VFD Hz: 55.55

Pre KO VAC: 3.5

Diff Pressure: 32

Influent @ 1100

VAC: 57.4

PID: 368.2

CH_4: 0

Oxy: 20.7

H_2S: 0.6

CO: 0.0

CO_2: 9840

Exhaust PID: 478.3

Location LC Kelly #1E Date 2/26/19

Project / Client O&M CONT'D

WELL	VAC	PID	Oxy	CO_2	CH_4
MW01	51.2	475.0	20.5	OVER	0
02	53.3	375.6	20.9	4820	0
03	57.2	111.1	20.9	1560	0
04	65.2	101.7	20.1	8880	0
05	54.8	178.3	20.4	OVER	1
06	40.2	231.4	20.9	6440	0
07	62.2	224.7	20.9	OVER	0
08	61.4	112.8	20.5	OVER	0
09	59.2	198.4	20.9	6820	0
10	59.5	213.5	19.8	OVER	0
11	27.2	176.4	20.9	4880	0

WELL	VAC	Flow	Fluids	
MW01	3.0	8	Heavy/Foam	Rebuilt
02	3.0	26	~~0~~	
03	3.0	12	Yes	
04	2.0	NA	NA	
05	2.5	25	Light	
06	6.5	14	Light	
07	5.0	18	Yes	
08	3.5	16	~~0~~	
09	4.0	8	Yes	
10	4.5	30	Light	
11	4.5	15	Heavy	Rebuilt

Location LC Kelly #1E Date 3/5/25

Project / Client O&M AL

0945 Travel to LC Kelly, P/U CLR

1100 Onsite, PPE/JSA. System running

MW06 elbow cracked, repaired

Flushed and CIR all lines and tubes

Rebuilt and cleaned MW10, 06, 11, 09, 05

Shop vac/blow out lines from well heads and manifold

Shut off blower, pull and dry filter

12 gallons removed from KO Tank

Reading @ 1400

Blower Hours: 1242.1

VFD Hz: 59.00

Pre KO VAC: 3.5

Diff Pressure: 3.5

Influent @ 1415

VAC: 54.8

PID: 583.3

CH_4: 0 % LEL

Oxy: 20.9 %

H_2S: 00 ppm

CO: 4 ppm

CO_2: 2660 ppm

Exhaust PID: 740.6

Location LC Kelly #1E Date 3/5/25

Project / Client

WELL	VAC	PID	Oxy	CO_2	CH_4
MW01	48.1	678.2	20.9	1260	0
02	45.6	691.4	20.1	5880	3
03	44.1	536.7	20.9	880	0
04	51.7	688.7	18.2	OVER	9
05	46.1	682.1	20.6	4300	0
06	40.8	733.3	20.9	1440	0
07	50.6	630.7	19.4	8900	0
08	48.3	394.2	19.6	5840	0
09	51.0	341.9	20.9	2200	0
10	49.8	1056	15.2	OVER	13
11	41.7	454.5	20.9	2800	0

WELL	VAC	FLOW	Liquids	
MW01	3.5	10	~~0~~	
02	3.5	24	~~0~~	
03	3.0	8	Yes	
04	NA	NA	NA	Replace Gauge
05	2.0	24	~~0~~	
06	6.0	7	~~0~~	
07	4.5	18	Light	
08	3.0	8	Light	
09	3.5	>5	Yes	
10	5.0	~~0~~	~~0~~	No Flow, Line blocked
11	5.0	8	~~0~~	Flowed

Location LC Kelly #1E
Project / Client Hilcorp O&M
Date 3/12/25

1000 Onsite, JSA/PPE
System running, Manifold Flooded.
Pull lines and flush. Clean tubes.
Flush/air out lines. Take readings and
samples. Shut Down blower, KO tank
Drained 24 gallons from KO Tank

Readings @ 1215
Blower Hours: 1406.2
VFD Hz: 55.55
Pre KO VAC: 4.0
Diff Pressure: 38

Influent @ 1300
VAC: 63.5
PID: 419.8
CH_4: 0
Oxy: 20.9
H_2S: 0.0
CO: 2
CO_2: 2740

Exhaust PID 579.4

Location LC Kelly #1E
Project / Client Hilcorp O&M
Date 3/12/25

Well	VAC	PID	Oxy	CO_2	CH_4
MW 01	56.7	386.8	20.1	6100	0
02	49.3	450.0	20.9	1480	0
03	49.8	428.4	20.9	1220	0
04	58.5	574.1	19.0	Over	4
05	50.1	386.4	20.1	5440	0
06	44.1	591.2	20.9	2440	0
07	52.8	599.8	19.1	7640	0
08	49.1	276.4	19.8	6220	0
09	49.8	488.8	20.9	3600	0
10	45.9	940.5	16.1	Over	~~8~~
11	44.2	397.7	20.9	4200	0

Well	VAC	Flow	Liquids
MW 01	4.0	10	Yes
02	4.0	28	Light
03	4.0	10	Light
04	1.0	NA	NA
05	3.5	30	~~0~~
06	7.0	11	~~0~~
07	5.0	18	Heavy
08	3.5	15	Heavy
09	4.0	NA	~~NA 0~~
10	5.5	0	Flooded
11	6.0	10	Heavy

Location LC Kelly #1E Date 3/26/25

Project / Client O&M CONT'D

0900 Travel to LC Kelly

1000 Onsite, JSA/PPE

MW11, 01, 10 flooded @ manifold

Cleared and Flushed

MW04 still reads 1.0 psi, recommend changing

AC gauge

Drain KO tank

5 gallons Drained from tank

Readings @ 1200

Blower Hrs: 1746.9

VFD Hz: 55.55

Pre KO VAC: 4.0

Diff Pressure: 35

Influent @ 1340

VAC: 57.2

PID: 508.2

CH_4: 0 LEL%

Oxy: 20.9 %

H_2S: 0.3 ppm

CO: 2 ppm

CO_2: 4280 ppm

Exhaust PID: 674.1

Rain in the Rain

10

Location LC-Kelly #1E

Date 3/26/25

Project / Client Hilcorp O+M

Well	VAC	PID	Oxy	CO_2	CH_4
MW01	48.0	321.6	19.9	OVER	1
02	45.2	347.8	20.8	2440	0
03	41.4	418.1	20.9	1220	0
04	50.2	481.1	19.0	OVER	2
05	48.1	317.7	20.7	2900	0
06	34.2	610.1	20.9	2100	0
07	48.7	269.1	19.9	5440	0
08	52.0	281.2	20.1	6000	0
09	51.1	421.2	20.9	2440	0
10	48.9	850.0	17.8	OVER	2
11	42.3	201.1	20.9	2120	0

Well	VAC	FLOW	Liquids
MW01	3.5	6	Yes
02	3.0	22	Light
03	3.5	10	Light
04	1.0	NA	NA
05	3.0	25	NO
06	7.0	28	Heavy
07	5.0	12	Yes
08	3.5	8	Yes
09	3.5	5	Yes
10	5.0	>5	Flooded
11	5.5	10	Flooded

ENSOLUM

APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS
LC Kelly 1E
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1 Runtime meter taken on January 10, 2025 at 11:15 AM Hours = 96.6	
Photograph 2 Runtime meter taken on March 26, 2025 at 12:00 PM Hours = 1,746.9	

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

ENSOLUM

APPENDIX C

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/22/2025 3:22:25 PM

JOB DESCRIPTION

LC Kelly #1E

JOB NUMBER

885-18020-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Laboratory Job ID: 885-18020-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: LC Kelly #1E

Job ID: 885-18020-1

Job ID: 885-18020-1 Eurofins Albuquerque

Job Narrative
885-18020-1

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 1/8/2025 6:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°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
Method 8015D_GRO_MS: Air sample was analyzed at maximum practical dilution (50x), however GRO recovery exceeded curve limits. CCV and LCS were recovered within acceptable limits. E-flagged results will therefore be reported as estimates.

Influent 1-6-25 (885-18020-1)

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

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-19103 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

Client Sample ID: Influent 1-6-25

Lab Sample ID: 885-18020-1
Matrix: Air
Date Collected: 01/06/25 13:10
Date Received: 01/08/25 06:30
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]	**57000**	**E**	250		ug/L			01/09/25 18:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*52 - 172*		*01/09/25 18:04*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			01/09/25 18:04	50
1,1,1-Trichloroethane	ND		5.0		ug/L			01/09/25 18:04	50
1,1,2,2-Tetrachloroethane	ND		10		ug/L			01/09/25 18:04	50
1,1,2-Trichloroethane	ND		5.0		ug/L			01/09/25 18:04	50
1,1-Dichloroethane	ND		5.0		ug/L			01/09/25 18:04	50
1,1-Dichloroethene	ND		5.0		ug/L			01/09/25 18:04	50
1,1-Dichloropropene	ND		5.0		ug/L			01/09/25 18:04	50
1,2,3-Trichlorobenzene	ND		5.0		ug/L			01/09/25 18:04	50
1,2,3-Trichloropropane	ND		10		ug/L			01/09/25 18:04	50
1,2,4-Trichlorobenzene	ND		5.0		ug/L			01/09/25 18:04	50
1,2,4-Trimethylbenzene	ND		5.0		ug/L			01/09/25 18:04	50
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			01/09/25 18:04	50
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			01/09/25 18:04	50
1,2-Dichlorobenzene	ND		5.0		ug/L			01/09/25 18:04	50
1,2-Dichloroethane (EDC)	ND		5.0		ug/L			01/09/25 18:04	50
1,2-Dichloropropane	ND		5.0		ug/L			01/09/25 18:04	50
1,3,5-Trimethylbenzene	ND		5.0		ug/L			01/09/25 18:04	50
1,3-Dichlorobenzene	ND		5.0		ug/L			01/09/25 18:04	50
1,3-Dichloropropane	ND		5.0		ug/L			01/09/25 18:04	50
1,4-Dichlorobenzene	ND		5.0		ug/L			01/09/25 18:04	50
1-Methylnaphthalene	ND		20		ug/L			01/09/25 18:04	50
2,2-Dichloropropane	ND		10		ug/L			01/09/25 18:04	50
2-Butanone	ND		50		ug/L			01/09/25 18:04	50
2-Chlorotoluene	ND		5.0		ug/L			01/09/25 18:04	50
2-Hexanone	ND		50		ug/L			01/09/25 18:04	50
2-Methylnaphthalene	ND		20		ug/L			01/09/25 18:04	50
4-Chlorotoluene	ND		5.0		ug/L			01/09/25 18:04	50
4-Isopropyltoluene	ND		5.0		ug/L			01/09/25 18:04	50
4-Methyl-2-pentanone	ND		50		ug/L			01/09/25 18:04	50
Acetone	ND		50		ug/L			01/09/25 18:04	50
Benzene	**410**		5.0		ug/L			01/09/25 18:04	50
Bromobenzene	ND		5.0		ug/L			01/09/25 18:04	50
Bromodichloromethane	ND		5.0		ug/L			01/09/25 18:04	50
Dibromochloromethane	ND		5.0		ug/L			01/09/25 18:04	50
Bromoform	ND		5.0		ug/L			01/09/25 18:04	50
Bromomethane	ND		15		ug/L			01/09/25 18:04	50
Carbon disulfide	ND		50		ug/L			01/09/25 18:04	50
Carbon tetrachloride	ND		5.0		ug/L			01/09/25 18:04	50
Chlorobenzene	ND		5.0		ug/L			01/09/25 18:04	50
Chloroethane	ND		10		ug/L			01/09/25 18:04	50
Chloroform	ND		5.0		ug/L			01/09/25 18:04	50

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

Client Sample ID: Influent 1-6-25

Lab Sample ID: 885-18020-1
Matrix: Air
Date Collected: 01/06/25 13:10
Date Received: 01/08/25 06:30
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		15		ug/L			01/09/25 18:04	50
cis-1,2-Dichloroethene	ND		5.0		ug/L			01/09/25 18:04	50
cis-1,3-Dichloropropene	ND		5.0		ug/L			01/09/25 18:04	50
Dibromomethane	ND		5.0		ug/L			01/09/25 18:04	50
Dichlorodifluoromethane	ND		5.0		ug/L			01/09/25 18:04	50
Ethylbenzene	**26**		5.0		ug/L			01/09/25 18:04	50
Hexachlorobutadiene	ND		5.0		ug/L			01/09/25 18:04	50
Isopropylbenzene	ND		5.0		ug/L			01/09/25 18:04	50
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			01/09/25 18:04	50
Methylene Chloride	ND		15		ug/L			01/09/25 18:04	50
n-Butylbenzene	ND		15		ug/L			01/09/25 18:04	50
N-Propylbenzene	ND		5.0		ug/L			01/09/25 18:04	50
Naphthalene	ND		10		ug/L			01/09/25 18:04	50
sec-Butylbenzene	ND		5.0		ug/L			01/09/25 18:04	50
Styrene	ND		5.0		ug/L			01/09/25 18:04	50
tert-Butylbenzene	ND		5.0		ug/L			01/09/25 18:04	50
Tetrachloroethene (PCE)	ND		5.0		ug/L			01/09/25 18:04	50
Toluene	**270**		5.0		ug/L			01/09/25 18:04	50
trans-1,2-Dichloroethene	ND		5.0		ug/L			01/09/25 18:04	50
trans-1,3-Dichloropropene	ND		5.0		ug/L			01/09/25 18:04	50
Trichloroethene (TCE)	ND		5.0		ug/L			01/09/25 18:04	50
Trichlorofluoromethane	ND		5.0		ug/L			01/09/25 18:04	50
Vinyl chloride	ND		5.0		ug/L			01/09/25 18:04	50
Xylenes, Total	**240**		7.5		ug/L			01/09/25 18:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*01/09/25 18:04*	*50*
Toluene-d8 (Surr)	*105*		*70 - 130*		*01/09/25 18:04*	*50*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/09/25 18:04*	*50*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*01/09/25 18:04*	*50*

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

Client Sample ID: Influent 1-7-25

Lab Sample ID: 885-18020-2
Matrix: Air
Date Collected: 01/07/25 13:00
Date Received: 01/08/25 06:30
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]	**39000**		250		ug/L			01/09/25 18:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*52 - 172*		*01/09/25 18:32*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			01/09/25 18:32	50
1,1,1-Trichloroethane	ND		5.0		ug/L			01/09/25 18:32	50
1,1,2,2-Tetrachloroethane	ND		10		ug/L			01/09/25 18:32	50
1,1,2-Trichloroethane	ND		5.0		ug/L			01/09/25 18:32	50
1,1-Dichloroethane	ND		5.0		ug/L			01/09/25 18:32	50
1,1-Dichloroethene	ND		5.0		ug/L			01/09/25 18:32	50
1,1-Dichloropropene	ND		5.0		ug/L			01/09/25 18:32	50
1,2,3-Trichlorobenzene	ND		5.0		ug/L			01/09/25 18:32	50
1,2,3-Trichloropropane	ND		10		ug/L			01/09/25 18:32	50
1,2,4-Trichlorobenzene	ND		5.0		ug/L			01/09/25 18:32	50
1,2,4-Trimethylbenzene	ND		5.0		ug/L			01/09/25 18:32	50
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			01/09/25 18:32	50
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			01/09/25 18:32	50
1,2-Dichlorobenzene	ND		5.0		ug/L			01/09/25 18:32	50
1,2-Dichloroethane (EDC)	ND		5.0		ug/L			01/09/25 18:32	50
1,2-Dichloropropane	ND		5.0		ug/L			01/09/25 18:32	50
1,3,5-Trimethylbenzene	**5.2**		5.0		ug/L			01/09/25 18:32	50
1,3-Dichlorobenzene	ND		5.0		ug/L			01/09/25 18:32	50
1,3-Dichloropropane	ND		5.0		ug/L			01/09/25 18:32	50
1,4-Dichlorobenzene	ND		5.0		ug/L			01/09/25 18:32	50
1-Methylnaphthalene	ND		20		ug/L			01/09/25 18:32	50
2,2-Dichloropropane	ND		10		ug/L			01/09/25 18:32	50
2-Butanone	ND		50		ug/L			01/09/25 18:32	50
2-Chlorotoluene	ND		5.0		ug/L			01/09/25 18:32	50
2-Hexanone	ND		50		ug/L			01/09/25 18:32	50
2-Methylnaphthalene	ND		20		ug/L			01/09/25 18:32	50
4-Chlorotoluene	ND		5.0		ug/L			01/09/25 18:32	50
4-Isopropyltoluene	ND		5.0		ug/L			01/09/25 18:32	50
4-Methyl-2-pentanone	ND		50		ug/L			01/09/25 18:32	50
Acetone	ND		50		ug/L			01/09/25 18:32	50
Benzene	**310**		5.0		ug/L			01/09/25 18:32	50
Bromobenzene	ND		5.0		ug/L			01/09/25 18:32	50
Bromodichloromethane	ND		5.0		ug/L			01/09/25 18:32	50
Dibromochloromethane	ND		5.0		ug/L			01/09/25 18:32	50
Bromoform	ND		5.0		ug/L			01/09/25 18:32	50
Bromomethane	ND		15		ug/L			01/09/25 18:32	50
Carbon disulfide	ND		50		ug/L			01/09/25 18:32	50
Carbon tetrachloride	ND		5.0		ug/L			01/09/25 18:32	50
Chlorobenzene	ND		5.0		ug/L			01/09/25 18:32	50
Chloroethane	ND		10		ug/L			01/09/25 18:32	50
Chloroform	ND		5.0		ug/L			01/09/25 18:32	50

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

Client Sample ID: Influent 1-7-25

Lab Sample ID: 885-18020-2
Matrix: Air
Date Collected: 01/07/25 13:00
Date Received: 01/08/25 06:30
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		15		ug/L			01/09/25 18:32	50
cis-1,2-Dichloroethene	ND		5.0		ug/L			01/09/25 18:32	50
cis-1,3-Dichloropropene	ND		5.0		ug/L			01/09/25 18:32	50
Dibromomethane	ND		5.0		ug/L			01/09/25 18:32	50
Dichlorodifluoromethane	ND		5.0		ug/L			01/09/25 18:32	50
Ethylbenzene	**40**		5.0		ug/L			01/09/25 18:32	50
Hexachlorobutadiene	ND		5.0		ug/L			01/09/25 18:32	50
Isopropylbenzene	ND		5.0		ug/L			01/09/25 18:32	50
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			01/09/25 18:32	50
Methylene Chloride	ND		15		ug/L			01/09/25 18:32	50
n-Butylbenzene	ND		15		ug/L			01/09/25 18:32	50
N-Propylbenzene	ND		5.0		ug/L			01/09/25 18:32	50
Naphthalene	ND		10		ug/L			01/09/25 18:32	50
sec-Butylbenzene	ND		5.0		ug/L			01/09/25 18:32	50
Styrene	ND		5.0		ug/L			01/09/25 18:32	50
tert-Butylbenzene	ND		5.0		ug/L			01/09/25 18:32	50
Tetrachloroethene (PCE)	ND		5.0		ug/L			01/09/25 18:32	50
Toluene	**420**		5.0		ug/L			01/09/25 18:32	50
trans-1,2-Dichloroethene	ND		5.0		ug/L			01/09/25 18:32	50
trans-1,3-Dichloropropene	ND		5.0		ug/L			01/09/25 18:32	50
Trichloroethene (TCE)	ND		5.0		ug/L			01/09/25 18:32	50
Trichlorofluoromethane	ND		5.0		ug/L			01/09/25 18:32	50
Vinyl chloride	ND		5.0		ug/L			01/09/25 18:32	50
Xylenes, Total	**350**		7.5		ug/L			01/09/25 18:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*01/09/25 18:32*	*50*
Toluene-d8 (Surr)	*106*		*70 - 130*		*01/09/25 18:32*	*50*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*01/09/25 18:32*	*50*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*01/09/25 18:32*	*50*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

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

Lab Sample ID: MB 885-19105/5
Matrix: Air
Analysis Batch: 19105

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			01/09/25 16:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*52 - 172*		*01/09/25 16:39*	*1*

Lab Sample ID: LCS 885-19105/4
Matrix: Air
Analysis Batch: 19105

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	517		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*52 - 172*

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

Lab Sample ID: MB 885-19103/7
Matrix: Air
Analysis Batch: 19103

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			01/09/25 16:39	1
1,1,1-Trichloroethane	ND		0.10		ug/L			01/09/25 16:39	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			01/09/25 16:39	1
1,1,2-Trichloroethane	ND		0.10		ug/L			01/09/25 16:39	1
1,1-Dichloroethane	ND		0.10		ug/L			01/09/25 16:39	1
1,1-Dichloroethene	ND		0.10		ug/L			01/09/25 16:39	1
1,1-Dichloropropene	ND		0.10		ug/L			01/09/25 16:39	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			01/09/25 16:39	1
1,2,3-Trichloropropane	ND		0.20		ug/L			01/09/25 16:39	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			01/09/25 16:39	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			01/09/25 16:39	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			01/09/25 16:39	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			01/09/25 16:39	1
1,2-Dichlorobenzene	ND		0.10		ug/L			01/09/25 16:39	1
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			01/09/25 16:39	1
1,2-Dichloropropane	ND		0.10		ug/L			01/09/25 16:39	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			01/09/25 16:39	1
1,3-Dichlorobenzene	ND		0.10		ug/L			01/09/25 16:39	1
1,3-Dichloropropane	ND		0.10		ug/L			01/09/25 16:39	1
1,4-Dichlorobenzene	ND		0.10		ug/L			01/09/25 16:39	1
1-Methylnaphthalene	ND		0.40		ug/L			01/09/25 16:39	1
2,2-Dichloropropane	ND		0.20		ug/L			01/09/25 16:39	1
2-Butanone	ND		1.0		ug/L			01/09/25 16:39	1
2-Chlorotoluene	ND		0.10		ug/L			01/09/25 16:39	1
2-Hexanone	ND		1.0		ug/L			01/09/25 16:39	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

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

Lab Sample ID: MB 885-19103/7
Matrix: Air
Analysis Batch: 19103

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			01/09/25 16:39	1
4-Chlorotoluene	ND		0.10		ug/L			01/09/25 16:39	1
4-Isopropyltoluene	ND		0.10		ug/L			01/09/25 16:39	1
4-Methyl-2-pentanone	ND		1.0		ug/L			01/09/25 16:39	1
Acetone	ND		1.0		ug/L			01/09/25 16:39	1
Benzene	ND		0.10		ug/L			01/09/25 16:39	1
Bromobenzene	ND		0.10		ug/L			01/09/25 16:39	1
Bromodichloromethane	ND		0.10		ug/L			01/09/25 16:39	1
Dibromochloromethane	ND		0.10		ug/L			01/09/25 16:39	1
Bromoform	ND		0.10		ug/L			01/09/25 16:39	1
Bromomethane	ND		0.30		ug/L			01/09/25 16:39	1
Carbon disulfide	ND		1.0		ug/L			01/09/25 16:39	1
Carbon tetrachloride	ND		0.10		ug/L			01/09/25 16:39	1
Chlorobenzene	ND		0.10		ug/L			01/09/25 16:39	1
Chloroethane	ND		0.20		ug/L			01/09/25 16:39	1
Chloroform	ND		0.10		ug/L			01/09/25 16:39	1
Chloromethane	ND		0.30		ug/L			01/09/25 16:39	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			01/09/25 16:39	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			01/09/25 16:39	1
Dibromomethane	ND		0.10		ug/L			01/09/25 16:39	1
Dichlorodifluoromethane	ND		0.10		ug/L			01/09/25 16:39	1
Ethylbenzene	ND		0.10		ug/L			01/09/25 16:39	1
Hexachlorobutadiene	ND		0.10		ug/L			01/09/25 16:39	1
Isopropylbenzene	ND		0.10		ug/L			01/09/25 16:39	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			01/09/25 16:39	1
Methylene Chloride	ND		0.30		ug/L			01/09/25 16:39	1
n-Butylbenzene	ND		0.30		ug/L			01/09/25 16:39	1
N-Propylbenzene	ND		0.10		ug/L			01/09/25 16:39	1
Naphthalene	ND		0.20		ug/L			01/09/25 16:39	1
sec-Butylbenzene	ND		0.10		ug/L			01/09/25 16:39	1
Styrene	ND		0.10		ug/L			01/09/25 16:39	1
tert-Butylbenzene	ND		0.10		ug/L			01/09/25 16:39	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			01/09/25 16:39	1
Toluene	ND		0.10		ug/L			01/09/25 16:39	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			01/09/25 16:39	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			01/09/25 16:39	1
Trichloroethene (TCE)	ND		0.10		ug/L			01/09/25 16:39	1
Trichlorofluoromethane	ND		0.10		ug/L			01/09/25 16:39	1
Vinyl chloride	ND		0.10		ug/L			01/09/25 16:39	1
Xylenes, Total	ND		0.15		ug/L			01/09/25 16:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*01/09/25 16:39*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*01/09/25 16:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/09/25 16:39*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*01/09/25 16:39*	*1*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

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

Lab Sample ID: LCS 885-19103/6
Matrix: Air
Analysis Batch: 19103

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	20.3		ug/L		101	70 - 130		
Benzene			20.1	21.6		ug/L		107	70 - 130		
Chlorobenzene			20.1	20.9		ug/L		104	70 - 130		
Toluene			20.2	20.7		ug/L		103	70 - 130		
Trichloroethene (TCE)			20.2	18.8		ug/L		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

GC/MS VOA

Analysis Batch: 19103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18020-1	Influent 1-6-25	Total/NA	Air	8260B	
885-18020-2	Influent 1-7-25	Total/NA	Air	8260B	
MB 885-19103/7	Method Blank	Total/NA	Air	8260B	
LCS 885-19103/6	Lab Control Sample	Total/NA	Air	8260B	

Analysis Batch: 19105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18020-1	Influent 1-6-25	Total/NA	Air	8015M/D	
885-18020-2	Influent 1-7-25	Total/NA	Air	8015M/D	
MB 885-19105/5	Method Blank	Total/NA	Air	8015M/D	
LCS 885-19105/4	Lab Control Sample	Total/NA	Air	8015M/D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18020-1

Client Sample ID: Influent 1-6-25
Date Collected: 01/06/25 13:10
Date Received: 01/08/25 06:30

Lab Sample ID: 885-18020-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	19105	CM	EET ALB	01/09/25 18:04
Total/NA	Analysis	8260B		50	19103	CM	EET ALB	01/09/25 18:04

Client Sample ID: Influent 1-7-25
Date Collected: 01/07/25 13:00
Date Received: 01/08/25 06:30

Lab Sample ID: 885-18020-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	19105	CM	EET ALB	01/09/25 18:32
Total/NA	Analysis	8260B		50	19103	CM	EET ALB	01/09/25 18:32

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: LC Kelly #1E

Job ID: 885-18020-1

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: LC Kelly #1E

Job ID: 885-18020-1

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: LC Kelly #1E

Job ID: 885-18020-1

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

January 14, 2025

Hall Environmental
4901 Hawkins St NE Ste D
Albuquerque, NM 87109-4372

Work Order: B25010499 Quote ID: B15626

Project Name: LC Kelly #1E, 88501698

Energy Laboratories Inc Billings MT received the following 2 samples for Hall Environmental on 1/9/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25010499-001	Influent 1-6-25 (885-18020-1)	01/06/25 13:10	01/09/25	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60
B25010499-002	Influent 1-7-25 (885-18020-2)	01/07/25 13:00	01/09/25	Air	Same As Above

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: Hall Environmental
Project: LC Kelly #1E, 88501698
Lab ID: B25010499-001
Client Sample ID: Influent 1-6-25 (885-18020-1)

Report Date: 01/14/25
Collection Date: 01/06/25 13:10
DateReceived: 01/09/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	7.65	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Nitrogen	79.32	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Carbon Dioxide	12.40	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Isopentane	0.02	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
n-Pentane	0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Hexanes plus	0.60	Mol %		0.01		GPA 2261-13	01/10/25 10:01 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	01/10/25 10:01 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	01/10/25 10:01 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	01/10/25 10:01 / jrj
Isopentane	0.007	gpm		0.001		GPA 2261-13	01/10/25 10:01 / jrj
n-Pentane	0.004	gpm		0.001		GPA 2261-13	01/10/25 10:01 / jrj
Hexanes plus	0.253	gpm		0.001		GPA 2261-13	01/10/25 10:01 / jrj
GPM Total	0.264	gpm		0.001		GPA 2261-13	01/10/25 10:01 / jrj
GPM Pentanes plus	0.264	gpm		0.001		GPA 2261-13	01/10/25 10:01 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	30			1		GPA 2261-13	01/10/25 10:01 / jrj
Net BTU per cu ft @ std cond. (LHV)	28			1		GPA 2261-13	01/10/25 10:01 / jrj
Pseudo-critical Pressure, psia	582			1		GPA 2261-13	01/10/25 10:01 / jrj
Pseudo-critical Temperature, deg R	275			1		GPA 2261-13	01/10/25 10:01 / jrj
Specific Gravity @ 60/60F	1.06			0.001		D3588-81	01/10/25 10:01 / jrj
Air, %	34.93			0.01		GPA 2261-13	01/10/25 10:01 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	01/10/25 10:01 / 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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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: LC Kelly #1E, 88501698
Lab ID: B25010499-002
Client Sample ID: Influent 1-7-25 (885-18020-2)

Report Date: 01/14/25
Collection Date: 01/07/25 13:00
DateReceived: 01/09/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	14.78	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Nitrogen	79.66	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Carbon Dioxide	5.20	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Isopentane	0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Hexanes plus	0.35	Mol %		0.01		GPA 2261-13	01/10/25 10:50 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	01/10/25 10:50 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	01/10/25 10:50 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	01/10/25 10:50 / jrj
Isopentane	0.004	gpm		0.001		GPA 2261-13	01/10/25 10:50 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	01/10/25 10:50 / jrj
Hexanes plus	0.147	gpm		0.001		GPA 2261-13	01/10/25 10:50 / jrj
GPM Total	0.151	gpm		0.001		GPA 2261-13	01/10/25 10:50 / jrj
GPM Pentanes plus	0.151	gpm		0.001		GPA 2261-13	01/10/25 10:50 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	17			1		GPA 2261-13	01/10/25 10:50 / jrj
Net BTU per cu ft @ std cond. (LHV)	16			1		GPA 2261-13	01/10/25 10:50 / jrj
Pseudo-critical Pressure, psia	558			1		GPA 2261-13	01/10/25 10:50 / jrj
Pseudo-critical Temperature, deg R	254			1		GPA 2261-13	01/10/25 10:50 / jrj
Specific Gravity @ 60/60F	1.02			0.001		D3588-81	01/10/25 10:50 / jrj
Air, %	67.55			0.01		GPA 2261-13	01/10/25 10:50 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	01/10/25 10:50 / 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
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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25010499 **Report Date:** 01/14/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261-13**									Batch: R435215	
Lab ID: **B25010499-002ADUP**	12	Sample Duplicate				Run: GC7890_250110A			01/10/25 11:39	
Oxygen		15.4	Mol %	0.01				4.2	20	
Nitrogen		84.2	Mol %	0.01				5.5	20	
Carbon Dioxide		<0.01	Mol %	0.01					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				0.0	20	
n-Pentane		0.01	Mol %	0.01					20	
Hexanes plus		0.40	Mol %	0.01				13	20	
Lab ID: **LCS011025**	11	Laboratory Control Sample				Run: GC7890_250110A			01/10/25 13:22	
Oxygen		0.61	Mol %	0.01	122	70	130			
Nitrogen		6.51	Mol %	0.01	108	70	130			
Carbon Dioxide		0.99	Mol %	0.01	100	70	130			
Methane		74.4	Mol %	0.01	100	70	130			
Ethane		5.97	Mol %	0.01	99	70	130			
Propane		4.98	Mol %	0.01	101	70	130			
Isobutane		1.79	Mol %	0.01	89	70	130			
n-Butane		1.98	Mol %	0.01	99	70	130			
Isopentane		1.01	Mol %	0.01	101	70	130			
n-Pentane		1.00	Mol %	0.01	100	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

Hall Environmental

B25010499

Login completed by: Lyndsi E. LeProwse
Date Received: 1/9/2025
Reviewed by: gmccartney
Received by: LEL
Reviewed Date: 1/10/2025
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:	11.1°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

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Garcia, Michelle	Carrier Tracking No(s): N/A	COC No: 885-3493.1
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 #: 885-18020-1
Address: 1120 South 27th Street, ,	Due Date Requested: 1/14/2025	Analysis Requested		Preservation Codes: -
City: Billings	TAT Requested (days): N/A			
State, Zip: MT, 59101				
Phone: 406-252-6325(Tel)	PO #: N/A			Other: N/A
Email: N/A	WO #: N/A			
Project Name: LC Kelly #1E	Project #: 88501698			
Site: N/A	SSOW#: 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:						
Influent 1-6-25 (885-18020-1)	1/6/25	13:10 Mountain	G	Air			X	1	See Attached Instructions
Influent 1-7-25 (885-18020-2)	1/7/25	13:00 Mountain	G	Air			X	1	See Attached Instructions
									B25010499

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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ 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:	Company	Received by:	Date/Time:	Company
		1/8/25 1410				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 01/09/25 13:05	Company

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

Ver: 10/10/2024

ICOC No:
885-3493

Containers

Count	Container Type	Preservative
2	Tedlar Bag 1L	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1, 2	SUBCONTRACT	SUB (Fixed Gases)/ Fixed Gases	Fixed Gases

Chain-of-Custody Record

Client: Hilcorp Energy Co.
Attn: Mitch Killough
Mailing Address:

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

Turn-Around Time:
5 Day
☒ Standard ☐ Rush
Project Name:
LC Kelly #1E
Project #:
Project Manager:
Stuart Hyde
Sampler: Danny Byrns
On Ice: ☐ Yes ☒ No yogi
# of Coolers: 1
Cooler Temp(including CF): 4.0 -0.2=3.8 (°C)

HALL ENVIRONMEI
ANALYSIS LABORA
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-18020 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Fixed Gas on CO2
1-6 2025	13:10	Air	Influent 1-6-25	2 Tedlar	—		X	X						X			X
1-7 2025	13:00	Air	Influent 1-7-25	2 Tedlar	—		X	X						X			X

Date: 1-7 2025 Time: 16:30 Relinquished by:
Received by: Via: Date Time
Date: 1/7/25 Time: 1732 Relinquished by:
Received by: Via: courier Date Time 1/8/25 6:30

Remarks: shyde
cc: dburns @ensolum.com
hmishriki

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: 885-18020-1

Login Number: 18020 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/22/2025 5:18:49 PM

JOB DESCRIPTION

LC Kelly #1E

JOB NUMBER

885-18391-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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1/22/2025 5:18:49 PM

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

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Laboratory Job ID: 885-18391-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18391-1

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: LC Kelly #1E

Job ID: 885-18391-1

Job ID: 885-18391-1 Eurofins Albuquerque

Job Narrative
885-18391-1

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 1/15/2025 7:10 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 0.9°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: LC Kelly #1E

Job ID: 885-18391-1

Client Sample ID: Influent 011425

Lab Sample ID: 885-18391-1

Date Collected: 01/14/25 11:40
Matrix: Air
Date Received: 01/15/25 07:10
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 (GRO)-C6-C10	3700		50		ug/L			01/17/25 14:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*52 - 172*		*01/17/25 14:45*	*10*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/17/25 14:45	10
1,1,1-Trichloroethane	ND		1.0		ug/L			01/17/25 14:45	10
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			01/17/25 14:45	10
1,1,2-Trichloroethane	ND		1.0		ug/L			01/17/25 14:45	10
1,1-Dichloroethane	ND		1.0		ug/L			01/17/25 14:45	10
1,1-Dichloroethene	ND		1.0		ug/L			01/17/25 14:45	10
1,1-Dichloropropene	ND		1.0		ug/L			01/17/25 14:45	10
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/17/25 14:45	10
1,2,3-Trichloropropane	ND		2.0		ug/L			01/17/25 14:45	10
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/17/25 14:45	10
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/17/25 14:45	10
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			01/17/25 14:45	10
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/17/25 14:45	10
1,2-Dichlorobenzene	ND		1.0		ug/L			01/17/25 14:45	10
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			01/17/25 14:45	10
1,2-Dichloropropane	ND		1.0		ug/L			01/17/25 14:45	10
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/17/25 14:45	10
1,3-Dichlorobenzene	ND		1.0		ug/L			01/17/25 14:45	10
1,3-Dichloropropane	ND		1.0		ug/L			01/17/25 14:45	10
1,4-Dichlorobenzene	ND		1.0		ug/L			01/17/25 14:45	10
1-Methylnaphthalene	ND		4.0		ug/L			01/17/25 14:45	10
2,2-Dichloropropane	ND		2.0		ug/L			01/17/25 14:45	10
2-Butanone	ND		10		ug/L			01/17/25 14:45	10
2-Chlorotoluene	ND		1.0		ug/L			01/17/25 14:45	10
2-Hexanone	ND		10		ug/L			01/17/25 14:45	10
2-Methylnaphthalene	ND		4.0		ug/L			01/17/25 14:45	10
4-Chlorotoluene	ND		1.0		ug/L			01/17/25 14:45	10
4-Isopropyltoluene	ND		1.0		ug/L			01/17/25 14:45	10
4-Methyl-2-pentanone	ND		10		ug/L			01/17/25 14:45	10
Acetone	ND		10		ug/L			01/17/25 14:45	10
Benzene	31		1.0		ug/L			01/17/25 14:45	10
Bromobenzene	ND		1.0		ug/L			01/17/25 14:45	10
Bromodichloromethane	ND		1.0		ug/L			01/17/25 14:45	10
Dibromochloromethane	ND		1.0		ug/L			01/17/25 14:45	10
Bromoform	ND		1.0		ug/L			01/17/25 14:45	10
Bromomethane	ND		3.0		ug/L			01/17/25 14:45	10
Carbon disulfide	ND		10		ug/L			01/17/25 14:45	10
Carbon tetrachloride	ND		1.0		ug/L			01/17/25 14:45	10
Chlorobenzene	ND		1.0		ug/L			01/17/25 14:45	10
Chloroethane	ND		2.0		ug/L			01/17/25 14:45	10
Chloroform	ND		1.0		ug/L			01/17/25 14:45	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18391-1

Client Sample ID: Influent 011425

Lab Sample ID: 885-18391-1

Date Collected: 01/14/25 11:40
Matrix: Air
Date Received: 01/15/25 07:10
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		3.0		ug/L			01/17/25 14:45	10
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/17/25 14:45	10
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/17/25 14:45	10
Dibromomethane	ND		1.0		ug/L			01/17/25 14:45	10
Dichlorodifluoromethane	ND		1.0		ug/L			01/17/25 14:45	10
Ethylbenzene	**4.0**		1.0		ug/L			01/17/25 14:45	10
Hexachlorobutadiene	ND		1.0		ug/L			01/17/25 14:45	10
Isopropylbenzene	ND		1.0		ug/L			01/17/25 14:45	10
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			01/17/25 14:45	10
Methylene Chloride	ND		3.0		ug/L			01/17/25 14:45	10
n-Butylbenzene	ND		3.0		ug/L			01/17/25 14:45	10
N-Propylbenzene	ND		1.0		ug/L			01/17/25 14:45	10
Naphthalene	ND		2.0		ug/L			01/17/25 14:45	10
sec-Butylbenzene	ND		1.0		ug/L			01/17/25 14:45	10
Styrene	ND		1.0		ug/L			01/17/25 14:45	10
tert-Butylbenzene	ND		1.0		ug/L			01/17/25 14:45	10
Tetrachloroethene (PCE)	ND		1.0		ug/L			01/17/25 14:45	10
Toluene	**55**		1.0		ug/L			01/17/25 14:45	10
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/17/25 14:45	10
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/17/25 14:45	10
Trichloroethene (TCE)	ND		1.0		ug/L			01/17/25 14:45	10
Trichlorofluoromethane	ND		1.0		ug/L			01/17/25 14:45	10
Vinyl chloride	ND		1.0		ug/L			01/17/25 14:45	10
Xylenes, Total	**35**		1.5		ug/L			01/17/25 14:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/17/25 14:45*	*10*
Toluene-d8 (Surr)	*133*	*S1+*	*70 - 130*		*01/17/25 14:45*	*10*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/17/25 14:45*	*10*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*01/17/25 14:45*	*10*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18391-1

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

Lab Sample ID: MB 885-19491/4
Matrix: Air
Analysis Batch: 19491

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		ug/L			01/17/25 14:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*52 - 172*		*01/17/25 14:20*	*1*

Lab Sample ID: LCS 885-19491/3
Matrix: Air
Analysis Batch: 19491

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 (GRO)-C6-C10			500	450		ug/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*52 - 172*

Lab Sample ID: 885-18391-1 DU
Matrix: Air
Analysis Batch: 19491

Client Sample ID: Influent 011425
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	3700			3710		ug/L				0.2	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*52 - 172*

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

Lab Sample ID: MB 885-19484/1005
Matrix: Air
Analysis Batch: 19484

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			01/17/25 14:20	1
1,1,1-Trichloroethane	ND		0.10		ug/L			01/17/25 14:20	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			01/17/25 14:20	1
1,1,2-Trichloroethane	ND		0.10		ug/L			01/17/25 14:20	1
1,1-Dichloroethane	ND		0.10		ug/L			01/17/25 14:20	1
1,1-Dichloroethene	ND		0.10		ug/L			01/17/25 14:20	1
1,1-Dichloropropene	ND		0.10		ug/L			01/17/25 14:20	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			01/17/25 14:20	1
1,2,3-Trichloropropane	ND		0.20		ug/L			01/17/25 14:20	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			01/17/25 14:20	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			01/17/25 14:20	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			01/17/25 14:20	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			01/17/25 14:20	1
1,2-Dichlorobenzene	ND		0.10		ug/L			01/17/25 14:20	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18391-1

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

Lab Sample ID: MB 885-19484/1005
Matrix: Air
Analysis Batch: 19484

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			01/17/25 14:20	1
1,2-Dichloropropane	ND		0.10		ug/L			01/17/25 14:20	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			01/17/25 14:20	1
1,3-Dichlorobenzene	ND		0.10		ug/L			01/17/25 14:20	1
1,3-Dichloropropane	ND		0.10		ug/L			01/17/25 14:20	1
1,4-Dichlorobenzene	ND		0.10		ug/L			01/17/25 14:20	1
1-Methylnaphthalene	ND		0.40		ug/L			01/17/25 14:20	1
2,2-Dichloropropane	ND		0.20		ug/L			01/17/25 14:20	1
2-Butanone	ND		1.0		ug/L			01/17/25 14:20	1
2-Chlorotoluene	ND		0.10		ug/L			01/17/25 14:20	1
2-Hexanone	ND		1.0		ug/L			01/17/25 14:20	1
2-Methylnaphthalene	ND		0.40		ug/L			01/17/25 14:20	1
4-Chlorotoluene	ND		0.10		ug/L			01/17/25 14:20	1
4-Isopropyltoluene	ND		0.10		ug/L			01/17/25 14:20	1
4-Methyl-2-pentanone	ND		1.0		ug/L			01/17/25 14:20	1
Acetone	ND		1.0		ug/L			01/17/25 14:20	1
Benzene	ND		0.10		ug/L			01/17/25 14:20	1
Bromobenzene	ND		0.10		ug/L			01/17/25 14:20	1
Bromodichloromethane	ND		0.10		ug/L			01/17/25 14:20	1
Dibromochloromethane	ND		0.10		ug/L			01/17/25 14:20	1
Bromoform	ND		0.10		ug/L			01/17/25 14:20	1
Bromomethane	ND		0.30		ug/L			01/17/25 14:20	1
Carbon disulfide	ND		1.0		ug/L			01/17/25 14:20	1
Carbon tetrachloride	ND		0.10		ug/L			01/17/25 14:20	1
Chlorobenzene	ND		0.10		ug/L			01/17/25 14:20	1
Chloroethane	ND		0.20		ug/L			01/17/25 14:20	1
Chloroform	ND		0.10		ug/L			01/17/25 14:20	1
Chloromethane	ND		0.30		ug/L			01/17/25 14:20	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			01/17/25 14:20	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			01/17/25 14:20	1
Dibromomethane	ND		0.10		ug/L			01/17/25 14:20	1
Dichlorodifluoromethane	ND		0.10		ug/L			01/17/25 14:20	1
Ethylbenzene	ND		0.10		ug/L			01/17/25 14:20	1
Hexachlorobutadiene	ND		0.10		ug/L			01/17/25 14:20	1
Isopropylbenzene	ND		0.10		ug/L			01/17/25 14:20	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			01/17/25 14:20	1
Methylene Chloride	ND		0.30		ug/L			01/17/25 14:20	1
n-Butylbenzene	ND		0.30		ug/L			01/17/25 14:20	1
N-Propylbenzene	ND		0.10		ug/L			01/17/25 14:20	1
Naphthalene	ND		0.20		ug/L			01/17/25 14:20	1
sec-Butylbenzene	ND		0.10		ug/L			01/17/25 14:20	1
Styrene	ND		0.10		ug/L			01/17/25 14:20	1
tert-Butylbenzene	ND		0.10		ug/L			01/17/25 14:20	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			01/17/25 14:20	1
Toluene	ND		0.10		ug/L			01/17/25 14:20	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			01/17/25 14:20	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			01/17/25 14:20	1
Trichloroethene (TCE)	ND		0.10		ug/L			01/17/25 14:20	1
Trichlorofluoromethane	ND		0.10		ug/L			01/17/25 14:20	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18391-1

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

Lab Sample ID: MB 885-19484/1005
Matrix: Air
Analysis Batch: 19484

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.10		ug/L			01/17/25 14:20	1
Xylenes, Total	ND		0.15		ug/L			01/17/25 14:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/17/25 14:20*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*01/17/25 14:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*01/17/25 14:20*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*01/17/25 14:20*	*1*

Lab Sample ID: LCS 885-19484/4
Matrix: Air
Analysis Batch: 19484

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	17.8		ug/L		88	70 - 130		
Benzene			20.1	19.6		ug/L		97	70 - 130		
Chlorobenzene			20.1	21.7		ug/L		108	70 - 130		
Toluene			20.2	20.6		ug/L		102	70 - 130		
Trichloroethene (TCE)			20.2	18.8		ug/L		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: 885-18391-1 DU
Matrix: Air
Analysis Batch: 19484

Client Sample ID: Influent 011425
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,1-Trichloroethane	ND			ND		ug/L				NC	20
1,1,2,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,2-Trichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethene	ND			ND		ug/L				NC	20
1,1-Dichloropropene	ND			ND		ug/L				NC	20
1,2,3-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2,4-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,4-Trimethylbenzene	ND			ND		ug/L				NC	20
1,2-Dibromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-Dibromoethane (EDB)	ND			ND		ug/L				NC	20
1,2-Dichlorobenzene	ND			ND		ug/L				NC	20
1,2-Dichloroethane (EDC)	ND			ND		ug/L				NC	20
1,2-Dichloropropane	ND			ND		ug/L				NC	20
1,3,5-Trimethylbenzene	ND			ND		ug/L				NC	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18391-1

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

Lab Sample ID: 885-18391-1 DU
Matrix: Air
Analysis Batch: 19484

Client Sample ID: Influent 011425
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,3-Dichlorobenzene	ND			ND		ug/L				NC	20
1,3-Dichloropropane	ND			ND		ug/L				NC	20
1,4-Dichlorobenzene	ND			ND		ug/L				NC	20
1-Methylnaphthalene	ND			ND		ug/L				NC	20
2,2-Dichloropropane	ND			ND		ug/L				NC	20
2-Butanone	ND			ND		ug/L				NC	20
2-Chlorotoluene	ND			ND		ug/L				NC	20
2-Hexanone	ND			ND		ug/L				NC	20
2-Methylnaphthalene	ND			ND		ug/L				NC	20
4-Chlorotoluene	ND			ND		ug/L				NC	20
4-Isopropyltoluene	ND			ND		ug/L				NC	20
4-Methyl-2-pentanone	ND			ND		ug/L				NC	20
Acetone	ND			ND		ug/L				NC	20
Benzene	31			30.2		ug/L				2	20
Bromobenzene	ND			ND		ug/L				NC	20
Bromodichloromethane	ND			ND		ug/L				NC	20
Dibromochloromethane	ND			ND		ug/L				NC	20
Bromoform	ND			ND		ug/L				NC	20
Bromomethane	ND			ND		ug/L				NC	20
Carbon disulfide	ND			ND		ug/L				NC	20
Carbon tetrachloride	ND			ND		ug/L				NC	20
Chlorobenzene	ND			ND		ug/L				NC	20
Chloroethane	ND			ND		ug/L				NC	20
Chloroform	ND			ND		ug/L				NC	20
Chloromethane	ND			ND		ug/L				NC	20
cis-1,2-Dichloroethene	ND			ND		ug/L				NC	20
cis-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Dibromomethane	ND			ND		ug/L				NC	20
Dichlorodifluoromethane	ND			ND		ug/L				NC	20
Ethylbenzene	4.0			3.76		ug/L				5	20
Hexachlorobutadiene	ND			ND		ug/L				NC	20
Isopropylbenzene	ND			ND		ug/L				NC	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Methylene Chloride	ND			ND		ug/L				NC	20
n-Butylbenzene	ND			ND		ug/L				NC	20
N-Propylbenzene	ND			ND		ug/L				NC	20
Naphthalene	ND			ND		ug/L				NC	20
sec-Butylbenzene	ND			ND		ug/L				NC	20
Styrene	ND			ND		ug/L				NC	20
tert-Butylbenzene	ND			ND		ug/L				NC	20
Tetrachloroethene (PCE)	ND			ND		ug/L				NC	20
Toluene	55			53.4		ug/L				3	20
trans-1,2-Dichloroethene	ND			ND		ug/L				NC	20
trans-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Trichloroethene (TCE)	ND			ND		ug/L				NC	20
Trichlorofluoromethane	ND			ND		ug/L				NC	20
Vinyl chloride	ND			ND		ug/L				NC	20
Xylenes, Total	35			33.2		ug/L				4	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18391-1

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

Lab Sample ID: 885-18391-1 DU
Matrix: Air
Analysis Batch: 19484

Client Sample ID: Influent 011425
Prep Type: Total/NA

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	126		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18391-1

GC/MS VOA

Analysis Batch: 19484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18391-1	Influent 011425	Total/NA	Air	8260B	
MB 885-19484/1005	Method Blank	Total/NA	Air	8260B	
LCS 885-19484/4	Lab Control Sample	Total/NA	Air	8260B	
885-18391-1 DU	Influent 011425	Total/NA	Air	8260B	

Analysis Batch: 19491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18391-1	Influent 011425	Total/NA	Air	8015M/D	
MB 885-19491/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-19491/3	Lab Control Sample	Total/NA	Air	8015M/D	
885-18391-1 DU	Influent 011425	Total/NA	Air	8015M/D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18391-1

Client Sample ID: Influent 011425

Date Collected: 01/14/25 11:40
Date Received: 01/15/25 07:10

Lab Sample ID: 885-18391-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		10	19491	CM	EET ALB	01/17/25 14:45
Total/NA	Analysis	8260B		10	19484	CM	EET ALB	01/17/25 14:45

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: LC Kelly #1E

Job ID: 885-18391-1

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 (GRO)-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: LC Kelly #1E

Job ID: 885-18391-1

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 (GRO)-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: LC Kelly #1E

Job ID: 885-18391-1

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

January 20, 2025

Hall Environmental
4901 Hawkins St NE Ste D
Albuquerque, NM 87109-4372

Work Order: B25011073 Quote ID: B15626

Project Name: 88500531, LC Kelly #1E

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 1/16/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25011073-001	Influent 011425 (885-18391-1)	01/14/25 11:40	01/16/25	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: Hall Environmental
Project: 88500531, LC Kelly #1E
Lab ID: B25011073-001
Client Sample ID: Influent 011425 (885-18391-1)

Report Date: 01/20/25
Collection Date: 01/14/25 11:40
DateReceived: 01/16/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	20.71	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Nitrogen	78.15	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Carbon Dioxide	1.06	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Hexanes plus	0.08	Mol %		0.01		GPA 2261-13	01/17/25 10:23 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	01/17/25 10:23 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	01/17/25 10:23 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	01/17/25 10:23 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	01/17/25 10:23 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	01/17/25 10:23 / jrj
Hexanes plus	0.034	gpm		0.001		GPA 2261-13	01/17/25 10:23 / jrj
GPM Total	0.034	gpm		0.001		GPA 2261-13	01/17/25 10:23 / jrj
GPM Pentanes plus	0.034	gpm		0.001		GPA 2261-13	01/17/25 10:23 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	4			1		GPA 2261-13	01/17/25 10:23 / jrj
Net BTU per cu ft @ std cond. (LHV)	4			1		GPA 2261-13	01/17/25 10:23 / jrj
Pseudo-critical Pressure, psia	548			1		GPA 2261-13	01/17/25 10:23 / jrj
Pseudo-critical Temperature, deg R	242			1		GPA 2261-13	01/17/25 10:23 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	01/17/25 10:23 / jrj
Air, %	94.64			0.01		GPA 2261-13	01/17/25 10:23 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	01/17/25 10:23 / 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: B25011073 **Report Date:** 01/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-13										Batch: R435543
Lab ID: LCS011725	11	Laboratory Control Sample				Run: GC7890_250117A				01/17/25 12:50
Oxygen		0.64	Mol %	0.01	128	70	130			
Nitrogen		5.88	Mol %	0.01	98	70	130			
Carbon Dioxide		0.99	Mol %	0.01	100	70	130			
Methane		74.6	Mol %	0.01	100	70	130			
Ethane		6.08	Mol %	0.01	101	70	130			
Propane		5.08	Mol %	0.01	103	70	130			
Isobutane		1.73	Mol %	0.01	86	70	130			
n-Butane		2.01	Mol %	0.01	100	70	130			
Isopentane		1.14	Mol %	0.01	114	70	130			
n-Pentane		1.01	Mol %	0.01	101	70	130			
Hexanes plus		0.80	Mol %	0.01	100	70	130			
Lab ID: B25011073-001ADUP	12	Sample Duplicate				Run: GC7890_250117A				01/17/25 11:12
Oxygen		20.7	Mol %	0.01				0.2	20	
Nitrogen		78.2	Mol %	0.01				0	20	
Carbon Dioxide		1.08	Mol %	0.01				1.9	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		0.08	Mol %	0.01				0.0	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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Work Order Receipt Checklist

Hall Environmental

B25011073

Login completed by: Crystal M. Jones
Date Received: 1/16/2025

Reviewed by: lleprowse
Received by: CMJ

Reviewed Date: 1/17/2025
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:	13.2°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

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Garcia, Michelle	Carrier Tracking No(s): N/A	COC No: 885-3581.1
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 #: 885-18391-1
Address: 1120 South 27th Street, ,	Due Date Requested: 1/22/2025			Preservation Codes: -
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: LC Kelly #1E	Project #: 88500531			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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:						
Influent 011425 (885-18391-1)	1/14/25	11:40 Mountain	G	Air			X	1	B25011073

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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ 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:	Company	Received by:	Date/Time:	Company
1	[signature]	1/15/25 1400				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature] Crystal Cruz	Date/Time: 01/16/25 1155	Company FLI

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

Ver: 10/10/2024

ICOC No:
885-3581

Containers

Count	Container Type	Preservative
1	Tedlar Bag 1L	None

Chain-of-Custody Record

Client: Hilcorp

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 (10 Day TAT) ☐ Rush

Project Name: LC Kelly #1E

Project #:

Project Manager: Stuart Hyde

Sampler: AL

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Yeti

Cooler Temp(including CF): 0.9+0=0.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABO

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87 885-18391 COC

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Fixed Gas CO_2 & O_2
1/14/25	1140	Air	Influent 011425	2-Tedlar				X						X			X

Date: 1/14/25 Time: 4:32 pm Relinquished by:

Received by: Via: Date: 1/14/25 Time: 1632

Date: 1/14/25 Time: 1717 Relinquished by

Received by: Via: courier Date: 1/15/25 Time: 7:10

Remarks:

cc: shyde @ensolum.com
dburns
bherb

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: 885-18391-1

Login Number: 18391 **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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/13/2025 11:28:56 AM

JOB DESCRIPTION

LC Kelly #1E

JOB NUMBER

885-18885-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
2/13/2025 11:28:56 AM

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

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Laboratory Job ID: 885-18885-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: LC Kelly #1E

Job ID: 885-18885-1

Job ID: 885-18885-1 Eurofins Albuquerque

Job Narrative
885-18885-1

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 1/25/2025 7:45 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 3.2°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
Method 8015D_GRO_MS: The sample duplicate (DUP) precision for analytical batch 885-20146 was outside control limits. Sample and sample duplicate were analyzed twice with similar nonhomogeneous results, therefore matrix interference or air bag integrity is suspected.

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

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-20128 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The sample duplicate (DUP) precision for analytical batch 885-20128 was outside control limits. Sample and sample duplicate were analyzed twice with similar nonhomogeneous results, therefore matrix interference or air bag integrity is suspected.

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

Client Sample ID: Influent 012225

Lab Sample ID: 885-18885-1
Matrix: Air
Date Collected: 01/22/25 14:10
Date Received: 01/25/25 07:45
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]	1200		100		ug/L			01/31/25 13:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*52 - 172*		*01/31/25 13:52*	*20*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			01/31/25 13:52	20
1,1,1-Trichloroethane	ND		2.0		ug/L			01/31/25 13:52	20
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			01/31/25 13:52	20
1,1,2-Trichloroethane	ND		2.0		ug/L			01/31/25 13:52	20
1,1-Dichloroethane	ND		2.0		ug/L			01/31/25 13:52	20
1,1-Dichloroethene	ND		2.0		ug/L			01/31/25 13:52	20
1,1-Dichloropropene	ND		2.0		ug/L			01/31/25 13:52	20
1,2,3-Trichlorobenzene	ND		2.0		ug/L			01/31/25 13:52	20
1,2,3-Trichloropropane	ND		4.0		ug/L			01/31/25 13:52	20
1,2,4-Trichlorobenzene	ND		2.0		ug/L			01/31/25 13:52	20
1,2,4-Trimethylbenzene	ND		2.0		ug/L			01/31/25 13:52	20
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			01/31/25 13:52	20
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			01/31/25 13:52	20
1,2-Dichlorobenzene	ND		2.0		ug/L			01/31/25 13:52	20
1,2-Dichloroethane (EDC)	ND		2.0		ug/L			01/31/25 13:52	20
1,2-Dichloropropane	ND		2.0		ug/L			01/31/25 13:52	20
1,3,5-Trimethylbenzene	ND		2.0		ug/L			01/31/25 13:52	20
1,3-Dichlorobenzene	ND		2.0		ug/L			01/31/25 13:52	20
1,3-Dichloropropane	ND		2.0		ug/L			01/31/25 13:52	20
1,4-Dichlorobenzene	ND		2.0		ug/L			01/31/25 13:52	20
1-Methylnaphthalene	ND		8.0		ug/L			01/31/25 13:52	20
2,2-Dichloropropane	ND		4.0		ug/L			01/31/25 13:52	20
2-Butanone	ND		20		ug/L			01/31/25 13:52	20
2-Chlorotoluene	ND		2.0		ug/L			01/31/25 13:52	20
2-Hexanone	ND		20		ug/L			01/31/25 13:52	20
2-Methylnaphthalene	ND		8.0		ug/L			01/31/25 13:52	20
4-Chlorotoluene	ND		2.0		ug/L			01/31/25 13:52	20
4-Isopropyltoluene	ND		2.0		ug/L			01/31/25 13:52	20
4-Methyl-2-pentanone	ND		20		ug/L			01/31/25 13:52	20
Acetone	ND		20		ug/L			01/31/25 13:52	20
Benzene	7.9		2.0		ug/L			01/31/25 13:52	20
Bromobenzene	ND		2.0		ug/L			01/31/25 13:52	20
Bromodichloromethane	ND		2.0		ug/L			01/31/25 13:52	20
Dibromochloromethane	ND		2.0		ug/L			01/31/25 13:52	20
Bromoform	ND		2.0		ug/L			01/31/25 13:52	20
Bromomethane	ND		6.0		ug/L			01/31/25 13:52	20
Carbon disulfide	ND		20		ug/L			01/31/25 13:52	20
Carbon tetrachloride	ND		2.0		ug/L			01/31/25 13:52	20
Chlorobenzene	ND		2.0		ug/L			01/31/25 13:52	20
Chloroethane	ND		4.0		ug/L			01/31/25 13:52	20
Chloroform	ND		2.0		ug/L			01/31/25 13:52	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

Client Sample ID: Influent 012225

Lab Sample ID: 885-18885-1

Date Collected: 01/22/25 14:10
Matrix: Air
Date Received: 01/25/25 07:45
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		6.0		ug/L			01/31/25 13:52	20
cis-1,2-Dichloroethene	ND		2.0		ug/L			01/31/25 13:52	20
cis-1,3-Dichloropropene	ND		2.0		ug/L			01/31/25 13:52	20
Dibromomethane	ND		2.0		ug/L			01/31/25 13:52	20
Dichlorodifluoromethane	ND		2.0		ug/L			01/31/25 13:52	20
Ethylbenzene	ND		2.0		ug/L			01/31/25 13:52	20
Hexachlorobutadiene	ND		2.0		ug/L			01/31/25 13:52	20
Isopropylbenzene	ND		2.0		ug/L			01/31/25 13:52	20
Methyl-tert-butyl Ether (MTBE)	ND		2.0		ug/L			01/31/25 13:52	20
Methylene Chloride	ND		6.0		ug/L			01/31/25 13:52	20
n-Butylbenzene	ND		6.0		ug/L			01/31/25 13:52	20
N-Propylbenzene	ND		2.0		ug/L			01/31/25 13:52	20
Naphthalene	ND		4.0		ug/L			01/31/25 13:52	20
sec-Butylbenzene	ND		2.0		ug/L			01/31/25 13:52	20
Styrene	ND		2.0		ug/L			01/31/25 13:52	20
tert-Butylbenzene	ND		2.0		ug/L			01/31/25 13:52	20
Tetrachloroethene (PCE)	ND		2.0		ug/L			01/31/25 13:52	20
Toluene	**9.5**		2.0		ug/L			01/31/25 13:52	20
trans-1,2-Dichloroethene	ND		2.0		ug/L			01/31/25 13:52	20
trans-1,3-Dichloropropene	ND		2.0		ug/L			01/31/25 13:52	20
Trichloroethene (TCE)	ND		2.0		ug/L			01/31/25 13:52	20
Trichlorofluoromethane	ND		2.0		ug/L			01/31/25 13:52	20
Vinyl chloride	ND		2.0		ug/L			01/31/25 13:52	20
Xylenes, Total	ND		3.0		ug/L			01/31/25 13:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*01/31/25 13:52*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*01/31/25 13:52*	*20*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*01/31/25 13:52*	*20*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*01/31/25 13:52*	*20*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

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

Lab Sample ID: MB 885-20146/5
Matrix: Air
Analysis Batch: 20146

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			01/31/25 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*52 - 172*		*01/31/25 13:20*	*1*

Lab Sample ID: LCS 885-20146/4
Matrix: Air
Analysis Batch: 20146

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	485		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*52 - 172*

Lab Sample ID: 885-18885-1 DU
Matrix: Air
Analysis Batch: 20146

Client Sample ID: Influent 012225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	1200			1640	F3	ug/L				29	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*52 - 172*

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

Lab Sample ID: MB 885-20128/6
Matrix: Air
Analysis Batch: 20128

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			01/31/25 13:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/31/25 13:20	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			01/31/25 13:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/31/25 13:20	1
1,1-Dichloroethane	ND		1.0		ug/L			01/31/25 13:20	1
1,1-Dichloroethene	ND		1.0		ug/L			01/31/25 13:20	1
1,1-Dichloropropene	ND		1.0		ug/L			01/31/25 13:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/31/25 13:20	1
1,2,3-Trichloropropane	ND		2.0		ug/L			01/31/25 13:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/31/25 13:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/31/25 13:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			01/31/25 13:20	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			01/31/25 13:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/31/25 13:20	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

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

Lab Sample ID: MB 885-20128/6
Matrix: Air
Analysis Batch: 20128

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			01/31/25 13:20	1
1,2-Dichloropropane	ND		1.0		ug/L			01/31/25 13:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/31/25 13:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/31/25 13:20	1
1,3-Dichloropropane	ND		1.0		ug/L			01/31/25 13:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/31/25 13:20	1
1-Methylnaphthalene	ND		4.0		ug/L			01/31/25 13:20	1
2,2-Dichloropropane	ND		2.0		ug/L			01/31/25 13:20	1
2-Butanone	ND		10		ug/L			01/31/25 13:20	1
2-Chlorotoluene	ND		1.0		ug/L			01/31/25 13:20	1
2-Hexanone	ND		10		ug/L			01/31/25 13:20	1
2-Methylnaphthalene	ND		4.0		ug/L			01/31/25 13:20	1
4-Chlorotoluene	ND		1.0		ug/L			01/31/25 13:20	1
4-Isopropyltoluene	ND		1.0		ug/L			01/31/25 13:20	1
4-Methyl-2-pentanone	ND		10		ug/L			01/31/25 13:20	1
Acetone	ND		10		ug/L			01/31/25 13:20	1
Benzene	ND		1.0		ug/L			01/31/25 13:20	1
Bromobenzene	ND		1.0		ug/L			01/31/25 13:20	1
Bromodichloromethane	ND		1.0		ug/L			01/31/25 13:20	1
Dibromochloromethane	ND		1.0		ug/L			01/31/25 13:20	1
Bromoform	ND		1.0		ug/L			01/31/25 13:20	1
Bromomethane	ND		3.0		ug/L			01/31/25 13:20	1
Carbon disulfide	ND		10		ug/L			01/31/25 13:20	1
Carbon tetrachloride	ND		1.0		ug/L			01/31/25 13:20	1
Chlorobenzene	ND		1.0		ug/L			01/31/25 13:20	1
Chloroethane	ND		2.0		ug/L			01/31/25 13:20	1
Chloroform	ND		1.0		ug/L			01/31/25 13:20	1
Chloromethane	ND		3.0		ug/L			01/31/25 13:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/31/25 13:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			01/31/25 13:20	1
Dibromomethane	ND		1.0		ug/L			01/31/25 13:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/31/25 13:20	1
Ethylbenzene	ND		1.0		ug/L			01/31/25 13:20	1
Hexachlorobutadiene	ND		1.0		ug/L			01/31/25 13:20	1
Isopropylbenzene	ND		1.0		ug/L			01/31/25 13:20	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			01/31/25 13:20	1
Methylene Chloride	ND		3.0		ug/L			01/31/25 13:20	1
n-Butylbenzene	ND		3.0		ug/L			01/31/25 13:20	1
N-Propylbenzene	ND		1.0		ug/L			01/31/25 13:20	1
Naphthalene	ND		2.0		ug/L			01/31/25 13:20	1
sec-Butylbenzene	ND		1.0		ug/L			01/31/25 13:20	1
Styrene	ND		1.0		ug/L			01/31/25 13:20	1
tert-Butylbenzene	ND		1.0		ug/L			01/31/25 13:20	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			01/31/25 13:20	1
Toluene	ND		1.0		ug/L			01/31/25 13:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/31/25 13:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			01/31/25 13:20	1
Trichloroethene (TCE)	ND		1.0		ug/L			01/31/25 13:20	1
Trichlorofluoromethane	ND		1.0		ug/L			01/31/25 13:20	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

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

Lab Sample ID: MB 885-20128/6
Matrix: Air
Analysis Batch: 20128

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0		ug/L			01/31/25 13:20	1
Xylenes, Total	ND		1.5		ug/L			01/31/25 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*01/31/25 13:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/31/25 13:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/31/25 13:20*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*01/31/25 13:20*	*1*

Lab Sample ID: LCS 885-20128/5
Matrix: Air
Analysis Batch: 20128

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	19.2		ug/L		95	70 - 130		
Benzene			20.1	20.2		ug/L		100	70 - 130		
Chlorobenzene			20.1	20.3		ug/L		101	70 - 130		
Toluene			20.2	20.2		ug/L		100	70 - 130		
Trichloroethene (TCE)			20.2	18.6		ug/L		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Lab Sample ID: 885-18885-1 DU
Matrix: Air
Analysis Batch: 20128

Client Sample ID: Influent 012225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,1-Trichloroethane	ND			ND		ug/L				NC	20
1,1,2,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,2-Trichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethene	ND			ND		ug/L				NC	20
1,1-Dichloropropene	ND			ND		ug/L				NC	20
1,2,3-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2,4-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,4-Trimethylbenzene	ND			ND		ug/L				NC	20
1,2-Dibromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-Dibromoethane (EDB)	ND			ND		ug/L				NC	20
1,2-Dichlorobenzene	ND			ND		ug/L				NC	20
1,2-Dichloroethane (EDC)	ND			ND		ug/L				NC	20
1,2-Dichloropropane	ND			ND		ug/L				NC	20
1,3,5-Trimethylbenzene	ND			ND		ug/L				NC	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

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

Lab Sample ID: 885-18885-1 DU
Matrix: Air
Analysis Batch: 20128

Client Sample ID: Influent 012225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,3-Dichlorobenzene	ND			ND		ug/L				NC	20
1,3-Dichloropropane	ND			ND		ug/L				NC	20
1,4-Dichlorobenzene	ND			ND		ug/L				NC	20
1-Methylnaphthalene	ND			ND		ug/L				NC	20
2,2-Dichloropropane	ND			ND		ug/L				NC	20
2-Butanone	ND			ND		ug/L				NC	20
2-Chlorotoluene	ND			ND		ug/L				NC	20
2-Hexanone	ND			ND		ug/L				NC	20
2-Methylnaphthalene	ND			ND		ug/L				NC	20
4-Chlorotoluene	ND			ND		ug/L				NC	20
4-Isopropyltoluene	ND			ND		ug/L				NC	20
4-Methyl-2-pentanone	ND			ND		ug/L				NC	20
Acetone	ND			ND		ug/L				NC	20
Benzene	7.9			11.0	F3	ug/L				33	20
Bromobenzene	ND			ND		ug/L				NC	20
Bromodichloromethane	ND			ND		ug/L				NC	20
Dibromochloromethane	ND			ND		ug/L				NC	20
Bromoform	ND			ND		ug/L				NC	20
Bromomethane	ND			ND		ug/L				NC	20
Carbon disulfide	ND			ND		ug/L				NC	20
Carbon tetrachloride	ND			ND		ug/L				NC	20
Chlorobenzene	ND			ND		ug/L				NC	20
Chloroethane	ND			ND		ug/L				NC	20
Chloroform	ND			ND		ug/L				NC	20
Chloromethane	ND			ND		ug/L				NC	20
cis-1,2-Dichloroethene	ND			ND		ug/L				NC	20
cis-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Dibromomethane	ND			ND		ug/L				NC	20
Dichlorodifluoromethane	ND			ND		ug/L				NC	20
Ethylbenzene	ND			ND		ug/L				NC	20
Hexachlorobutadiene	ND			ND		ug/L				NC	20
Isopropylbenzene	ND			ND		ug/L				NC	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Methylene Chloride	ND			ND		ug/L				NC	20
n-Butylbenzene	ND			ND		ug/L				NC	20
N-Propylbenzene	ND			ND		ug/L				NC	20
Naphthalene	ND			ND		ug/L				NC	20
sec-Butylbenzene	ND			ND		ug/L				NC	20
Styrene	ND			ND		ug/L				NC	20
tert-Butylbenzene	ND			ND		ug/L				NC	20
Tetrachloroethene (PCE)	ND			ND		ug/L				NC	20
Toluene	9.5			12.9	F3	ug/L				30	20
trans-1,2-Dichloroethene	ND			ND		ug/L				NC	20
trans-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Trichloroethene (TCE)	ND			ND		ug/L				NC	20
Trichlorofluoromethane	ND			ND		ug/L				NC	20
Vinyl chloride	ND			ND		ug/L				NC	20
Xylenes, Total	ND			ND		ug/L				NC	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

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

Lab Sample ID: 885-18885-1 DU
Matrix: Air
Analysis Batch: 20128

Client Sample ID: Influent 012225
Prep Type: Total/NA

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

GC/MS VOA

Analysis Batch: 20128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18885-1	Influent 012225	Total/NA	Air	8260B	
MB 885-20128/6	Method Blank	Total/NA	Air	8260B	
LCS 885-20128/5	Lab Control Sample	Total/NA	Air	8260B	
885-18885-1 DU	Influent 012225	Total/NA	Air	8260B	

Analysis Batch: 20146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18885-1	Influent 012225	Total/NA	Air	8015M/D	
MB 885-20146/5	Method Blank	Total/NA	Air	8015M/D	
LCS 885-20146/4	Lab Control Sample	Total/NA	Air	8015M/D	
885-18885-1 DU	Influent 012225	Total/NA	Air	8015M/D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-18885-1

Client Sample ID: Influent 012225

Lab Sample ID: 885-18885-1

Date Collected: 01/22/25 14:10

Matrix: Air

Date Received: 01/25/25 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		20	20146	CM	EET ALB	01/31/25 13:52
Total/NA	Analysis	8260B		20	20128	CM	EET ALB	01/31/25 13:52

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: LC Kelly #1E

Job ID: 885-18885-1

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: LC Kelly #1E

Job ID: 885-18885-1

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: LC Kelly #1E

Job ID: 885-18885-1

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 11, 2025

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

Work Order: B25011649 Quote ID: B15626

Project Name: LC Kelly #1E, 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 1/28/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25011649-001	Influent 012225 (885-18885-1)	01/22/25 14:10	01/28/25	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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CLIENT: Eurofins TestAmerica - Albuquerque
Project: LC Kelly #1E, 88501698
Work Order: B25011649

Revised Date: 02/11/25
Report Date: 02/03/25

CASE NARRATIVE

Revised Date: 02/11/25

On 02/04/25 a request was received from Michelle Garcia at Eurofins TestAmerica - Albuquerque to revise this workorder by updating the account to reflect the current name Eurofins TestAmerica - Albuquerque.

The report has been revised and replaces the previously issued report dated 02/03/25 in its entirety.

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Eurofins TestAmerica - Albuquerque
Project: LC Kelly #1E, 88501698
Lab ID: B25011649-001
Client Sample ID: Influent 012225 (885-18885-1)

Revised Date: 02/11/25
Report Date: 02/03/25
Collection Date: 01/22/25 14:10
DateReceived: 01/28/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	20.82	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Nitrogen	78.42	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Carbon Dioxide	0.75	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Hexanes plus	0.01	Mol %		0.01		GPA 2261-13	01/30/25 10:00 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	01/30/25 10:00 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	01/30/25 10:00 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	01/30/25 10:00 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	01/30/25 10:00 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	01/30/25 10:00 / jrj
Hexanes plus	0.004	gpm		0.001		GPA 2261-13	01/30/25 10:00 / jrj
GPM Total	0.004	gpm		0.001		GPA 2261-13	01/30/25 10:00 / jrj
GPM Pentanes plus	0.004	gpm		0.001		GPA 2261-13	01/30/25 10:00 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	01/30/25 10:00 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	01/30/25 10:00 / jrj
Pseudo-critical Pressure, psia	547			1		GPA 2261-13	01/30/25 10:00 / jrj
Pseudo-critical Temperature, deg R	241			1		GPA 2261-13	01/30/25 10:00 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	01/30/25 10:00 / jrj
Air, %	95.11			0.01		GPA 2261-13	01/30/25 10:00 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	01/30/25 10:00 / 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: B25011649 **Report Date:** 02/03/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261-13**										Batch: R436146
Lab ID: **B25011649-001ADUP**	12	Sample Duplicate				Run: GC7890_250130A				01/30/25 10:49
Oxygen		21.2	Mol %	0.01				1.9	20	
Nitrogen		78.0	Mol %	0.01				0.5	20	
Carbon Dioxide		0.76	Mol %	0.01				1.3	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				0.0	20	
Lab ID: **LCS013025**	11	Laboratory Control Sample				Run: GC7890_250130A				01/30/25 14:59
Oxygen		0.62	Mol %	0.01	124	70	130			
Nitrogen		6.14	Mol %	0.01	102	70	130			
Carbon Dioxide		1.02	Mol %	0.01	103	70	130			
Methane		74.7	Mol %	0.01	100	70	130			
Ethane		5.98	Mol %	0.01	100	70	130			
Propane		5.00	Mol %	0.01	101	70	130			
Isobutane		1.71	Mol %	0.01	85	70	130			
n-Butane		2.01	Mol %	0.01	100	70	130			
Isopentane		0.99	Mol %	0.01	99	70	130			
n-Pentane		1.01	Mol %	0.01	101	70	130			
Hexanes plus		0.80	Mol %	0.01	100	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 B25011649

Login completed by: Danielle N. Harris Date Received: 1/28/2025
Reviewed by: cjones Received by: KLP
Reviewed Date: 1/29/2025 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:	10.0°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: 885-3671.1
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 #: 885-18885-1
Address: 1120 South 27th Street,	Due Date Requested: 2/3/2025			Preservation Codes: -
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: LC Kelly #1E	Project #: 88501698			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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:						
Influent 012225 (885-18885-1)	1/22/25	14:10 Mountain	G	Air			X	1	See Attached Instructions
									B250011649

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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ 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:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/27/25 13:55				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Mycline Black	Date/Time: 01-28-25 1200	Company ELI

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

Ver: 10/10/2024

ICOC No:
885-3671

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
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~~ 5 day TAT ☐ Rush
Project Name: LC Kelly #1E
Project #:
Project Manager: Sturd Hyde, Dany Burns
Sampler: Dara Lemon
On Ice: ☐ Yes ☒ No mojo
# of Coolers: 1
Cooler Temp(including CF): 3.2 ± 0 = 3.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87[illegible]
Tel. 505-345-3975 Fax 505-345-4107
885-18885 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Fixed Gases CO_2 and O_2
1/22/25	1410	Air	Influent 012225	2-Tedlar				X						X			X

Remarks:

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/24/25	1617	[signature]	[signature]		1/24/25	1617
1/24/25	1800	[signature]	[signature]	courier	1/25/25	7:45

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: 885-18885-1

Login Number: 18885 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/12/2025 4:55:09 PM

JOB DESCRIPTION

LC Kelly #1E

JOB NUMBER

885-19078-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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2/12/2025 4:55:09 PM

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

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Laboratory Job ID: 885-19078-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19078-1

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: LC Kelly #1E

Job ID: 885-19078-1

Job ID: 885-19078-1 Eurofins Albuquerque

Job Narrative
885-19078-1

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 1/30/2025 8:00 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 6.1°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: LC Kelly #1E

Job ID: 885-19078-1

Client Sample ID: Influent 012925

Lab Sample ID: 885-19078-1

Date Collected: 01/29/25 14:55
Matrix: Air
Date Received: 01/30/25 08:00
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]	4300		250		ug/L			02/07/25 16:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*52 - 172*		*02/07/25 16:18*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			02/07/25 16:18	50
1,1,1-Trichloroethane	ND		5.0		ug/L			02/07/25 16:18	50
1,1,2,2-Tetrachloroethane	ND		10		ug/L			02/07/25 16:18	50
1,1,2-Trichloroethane	ND		5.0		ug/L			02/07/25 16:18	50
1,1-Dichloroethane	ND		5.0		ug/L			02/07/25 16:18	50
1,1-Dichloroethene	ND		5.0		ug/L			02/07/25 16:18	50
1,1-Dichloropropene	ND		5.0		ug/L			02/07/25 16:18	50
1,2,3-Trichlorobenzene	ND		5.0		ug/L			02/07/25 16:18	50
1,2,3-Trichloropropane	ND		10		ug/L			02/07/25 16:18	50
1,2,4-Trichlorobenzene	ND		5.0		ug/L			02/07/25 16:18	50
1,2,4-Trimethylbenzene	ND		5.0		ug/L			02/07/25 16:18	50
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			02/07/25 16:18	50
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			02/07/25 16:18	50
1,2-Dichlorobenzene	ND		5.0		ug/L			02/07/25 16:18	50
1,2-Dichloroethane (EDC)	ND		5.0		ug/L			02/07/25 16:18	50
1,2-Dichloropropane	ND		5.0		ug/L			02/07/25 16:18	50
1,3,5-Trimethylbenzene	ND		5.0		ug/L			02/07/25 16:18	50
1,3-Dichlorobenzene	ND		5.0		ug/L			02/07/25 16:18	50
1,3-Dichloropropane	ND		5.0		ug/L			02/07/25 16:18	50
1,4-Dichlorobenzene	ND		5.0		ug/L			02/07/25 16:18	50
1-Methylnaphthalene	ND		20		ug/L			02/07/25 16:18	50
2,2-Dichloropropane	ND		10		ug/L			02/07/25 16:18	50
2-Butanone	ND		50		ug/L			02/07/25 16:18	50
2-Chlorotoluene	ND		5.0		ug/L			02/07/25 16:18	50
2-Hexanone	ND		50		ug/L			02/07/25 16:18	50
2-Methylnaphthalene	ND		20		ug/L			02/07/25 16:18	50
4-Chlorotoluene	ND		5.0		ug/L			02/07/25 16:18	50
4-Isopropyltoluene	ND		5.0		ug/L			02/07/25 16:18	50
4-Methyl-2-pentanone	ND		50		ug/L			02/07/25 16:18	50
Acetone	ND		50		ug/L			02/07/25 16:18	50
Benzene	20		5.0		ug/L			02/07/25 16:18	50
Bromobenzene	ND		5.0		ug/L			02/07/25 16:18	50
Bromodichloromethane	ND		5.0		ug/L			02/07/25 16:18	50
Dibromochloromethane	ND		5.0		ug/L			02/07/25 16:18	50
Bromoform	ND		5.0		ug/L			02/07/25 16:18	50
Bromomethane	ND		15		ug/L			02/07/25 16:18	50
Carbon disulfide	ND		50		ug/L			02/07/25 16:18	50
Carbon tetrachloride	ND		5.0		ug/L			02/07/25 16:18	50
Chlorobenzene	ND		5.0		ug/L			02/07/25 16:18	50
Chloroethane	ND		10		ug/L			02/07/25 16:18	50
Chloroform	ND		5.0		ug/L			02/07/25 16:18	50

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19078-1

Client Sample ID: Influent 012925

Lab Sample ID: 885-19078-1

Date Collected: 01/29/25 14:55
Matrix: Air
Date Received: 01/30/25 08:00
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		15		ug/L			02/07/25 16:18	50
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/07/25 16:18	50
cis-1,3-Dichloropropene	ND		5.0		ug/L			02/07/25 16:18	50
Dibromomethane	ND		5.0		ug/L			02/07/25 16:18	50
Dichlorodifluoromethane	ND		5.0		ug/L			02/07/25 16:18	50
Ethylbenzene	**7.2**		5.0		ug/L			02/07/25 16:18	50
Hexachlorobutadiene	ND		5.0		ug/L			02/07/25 16:18	50
Isopropylbenzene	ND		5.0		ug/L			02/07/25 16:18	50
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			02/07/25 16:18	50
Methylene Chloride	ND		15		ug/L			02/07/25 16:18	50
n-Butylbenzene	ND		15		ug/L			02/07/25 16:18	50
N-Propylbenzene	ND		5.0		ug/L			02/07/25 16:18	50
Naphthalene	ND		10		ug/L			02/07/25 16:18	50
sec-Butylbenzene	ND		5.0		ug/L			02/07/25 16:18	50
Styrene	ND		5.0		ug/L			02/07/25 16:18	50
tert-Butylbenzene	ND		5.0		ug/L			02/07/25 16:18	50
Tetrachloroethene (PCE)	ND		5.0		ug/L			02/07/25 16:18	50
Toluene	**68**		5.0		ug/L			02/07/25 16:18	50
trans-1,2-Dichloroethene	ND		5.0		ug/L			02/07/25 16:18	50
trans-1,3-Dichloropropene	ND		5.0		ug/L			02/07/25 16:18	50
Trichloroethene (TCE)	ND		5.0		ug/L			02/07/25 16:18	50
Trichlorofluoromethane	ND		5.0		ug/L			02/07/25 16:18	50
Vinyl chloride	ND		5.0		ug/L			02/07/25 16:18	50
Xylenes, Total	**71**		7.5		ug/L			02/07/25 16:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*			*02/07/25 16:18*	*50*
Toluene-d8 (Surr)	*98*		*70 - 130*			*02/07/25 16:18*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*			*02/07/25 16:18*	*50*
Dibromofluoromethane (Surr)	*104*		*70 - 130*			*02/07/25 16:18*	*50*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19078-1

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

Lab Sample ID: MB 885-20524/5
Matrix: Air
Analysis Batch: 20524

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			02/07/25 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*52 - 172*		*02/07/25 14:54*	*1*

Lab Sample ID: LCS 885-20524/4
Matrix: Air
Analysis Batch: 20524

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	557		ug/L		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*52 - 172*

Lab Sample ID: 885-19078-1 DU
Matrix: Air
Analysis Batch: 20524

Client Sample ID: Influent 012925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	4300			4690		ug/L				9	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*52 - 172*

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

Lab Sample ID: MB 885-20523/5
Matrix: Air
Analysis Batch: 20523

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			02/07/25 14:54	1
1,1,1-Trichloroethane	ND		0.10		ug/L			02/07/25 14:54	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/07/25 14:54	1
1,1,2-Trichloroethane	ND		0.10		ug/L			02/07/25 14:54	1
1,1-Dichloroethane	ND		0.10		ug/L			02/07/25 14:54	1
1,1-Dichloroethene	ND		0.10		ug/L			02/07/25 14:54	1
1,1-Dichloropropene	ND		0.10		ug/L			02/07/25 14:54	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			02/07/25 14:54	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/07/25 14:54	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			02/07/25 14:54	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			02/07/25 14:54	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			02/07/25 14:54	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			02/07/25 14:54	1
1,2-Dichlorobenzene	ND		0.10		ug/L			02/07/25 14:54	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19078-1

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

Lab Sample ID: MB 885-20523/5
Matrix: Air
Analysis Batch: 20523

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			02/07/25 14:54	1
1,2-Dichloropropane	ND		0.10		ug/L			02/07/25 14:54	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			02/07/25 14:54	1
1,3-Dichlorobenzene	ND		0.10		ug/L			02/07/25 14:54	1
1,3-Dichloropropane	ND		0.10		ug/L			02/07/25 14:54	1
1,4-Dichlorobenzene	ND		0.10		ug/L			02/07/25 14:54	1
1-Methylnaphthalene	ND		0.40		ug/L			02/07/25 14:54	1
2,2-Dichloropropane	ND		0.20		ug/L			02/07/25 14:54	1
2-Butanone	ND		1.0		ug/L			02/07/25 14:54	1
2-Chlorotoluene	ND		0.10		ug/L			02/07/25 14:54	1
2-Hexanone	ND		1.0		ug/L			02/07/25 14:54	1
2-Methylnaphthalene	ND		0.40		ug/L			02/07/25 14:54	1
4-Chlorotoluene	ND		0.10		ug/L			02/07/25 14:54	1
4-Isopropyltoluene	ND		0.10		ug/L			02/07/25 14:54	1
4-Methyl-2-pentanone	ND		1.0		ug/L			02/07/25 14:54	1
Acetone	ND		1.0		ug/L			02/07/25 14:54	1
Benzene	ND		0.10		ug/L			02/07/25 14:54	1
Bromobenzene	ND		0.10		ug/L			02/07/25 14:54	1
Bromodichloromethane	ND		0.10		ug/L			02/07/25 14:54	1
Dibromochloromethane	ND		0.10		ug/L			02/07/25 14:54	1
Bromoform	ND		0.10		ug/L			02/07/25 14:54	1
Bromomethane	ND		0.30		ug/L			02/07/25 14:54	1
Carbon disulfide	ND		1.0		ug/L			02/07/25 14:54	1
Carbon tetrachloride	ND		0.10		ug/L			02/07/25 14:54	1
Chlorobenzene	ND		0.10		ug/L			02/07/25 14:54	1
Chloroethane	ND		0.20		ug/L			02/07/25 14:54	1
Chloroform	ND		0.10		ug/L			02/07/25 14:54	1
Chloromethane	ND		0.30		ug/L			02/07/25 14:54	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			02/07/25 14:54	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			02/07/25 14:54	1
Dibromomethane	ND		0.10		ug/L			02/07/25 14:54	1
Dichlorodifluoromethane	ND		0.10		ug/L			02/07/25 14:54	1
Ethylbenzene	ND		0.10		ug/L			02/07/25 14:54	1
Hexachlorobutadiene	ND		0.10		ug/L			02/07/25 14:54	1
Isopropylbenzene	ND		0.10		ug/L			02/07/25 14:54	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			02/07/25 14:54	1
Methylene Chloride	ND		0.30		ug/L			02/07/25 14:54	1
n-Butylbenzene	ND		0.30		ug/L			02/07/25 14:54	1
N-Propylbenzene	ND		0.10		ug/L			02/07/25 14:54	1
Naphthalene	ND		0.20		ug/L			02/07/25 14:54	1
sec-Butylbenzene	ND		0.10		ug/L			02/07/25 14:54	1
Styrene	ND		0.10		ug/L			02/07/25 14:54	1
tert-Butylbenzene	ND		0.10		ug/L			02/07/25 14:54	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			02/07/25 14:54	1
Toluene	ND		0.10		ug/L			02/07/25 14:54	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			02/07/25 14:54	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			02/07/25 14:54	1
Trichloroethene (TCE)	ND		0.10		ug/L			02/07/25 14:54	1
Trichlorofluoromethane	ND		0.10		ug/L			02/07/25 14:54	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19078-1

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

Lab Sample ID: MB 885-20523/5
Matrix: Air
Analysis Batch: 20523

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.10		ug/L			02/07/25 14:54	1
Xylenes, Total	ND		0.15		ug/L			02/07/25 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*02/07/25 14:54*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*02/07/25 14:54*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*02/07/25 14:54*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*02/07/25 14:54*	*1*

Lab Sample ID: LCS 885-20523/4
Matrix: Air
Analysis Batch: 20523

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	21.0		ug/L		104	70 - 130		
Benzene			20.1	23.1		ug/L		115	70 - 130		
Chlorobenzene			20.1	20.3		ug/L		101	70 - 130		
Toluene			20.2	20.1		ug/L		100	70 - 130		
Trichloroethene (TCE)			20.2	19.7		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: 885-19078-1 DU
Matrix: Air
Analysis Batch: 20523

Client Sample ID: Influent 012925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,1-Trichloroethane	ND			ND		ug/L				NC	20
1,1,2,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,2-Trichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethene	ND			ND		ug/L				NC	20
1,1-Dichloropropene	ND			ND		ug/L				NC	20
1,2,3-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2,4-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,4-Trimethylbenzene	ND			ND		ug/L				NC	20
1,2-Dibromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-Dibromoethane (EDB)	ND			ND		ug/L				NC	20
1,2-Dichlorobenzene	ND			ND		ug/L				NC	20
1,2-Dichloroethane (EDC)	ND			ND		ug/L				NC	20
1,2-Dichloropropane	ND			ND		ug/L				NC	20
1,3,5-Trimethylbenzene	ND			ND		ug/L				NC	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19078-1

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

Lab Sample ID: 885-19078-1 DU
Matrix: Air
Analysis Batch: 20523

Client Sample ID: Influent 012925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,3-Dichlorobenzene	ND			ND		ug/L				NC	20
1,3-Dichloropropane	ND			ND		ug/L				NC	20
1,4-Dichlorobenzene	ND			ND		ug/L				NC	20
1-Methylnaphthalene	ND			ND		ug/L				NC	20
2,2-Dichloropropane	ND			ND		ug/L				NC	20
2-Butanone	ND			ND		ug/L				NC	20
2-Chlorotoluene	ND			ND		ug/L				NC	20
2-Hexanone	ND			ND		ug/L				NC	20
2-Methylnaphthalene	ND			ND		ug/L				NC	20
4-Chlorotoluene	ND			ND		ug/L				NC	20
4-Isopropyltoluene	ND			ND		ug/L				NC	20
4-Methyl-2-pentanone	ND			ND		ug/L				NC	20
Acetone	ND			ND		ug/L				NC	20
Benzene	20			21.2		ug/L				6	20
Bromobenzene	ND			ND		ug/L				NC	20
Bromodichloromethane	ND			ND		ug/L				NC	20
Dibromochloromethane	ND			ND		ug/L				NC	20
Bromoform	ND			ND		ug/L				NC	20
Bromomethane	ND			ND		ug/L				NC	20
Carbon disulfide	ND			ND		ug/L				NC	20
Carbon tetrachloride	ND			ND		ug/L				NC	20
Chlorobenzene	ND			ND		ug/L				NC	20
Chloroethane	ND			ND		ug/L				NC	20
Chloroform	ND			ND		ug/L				NC	20
Chloromethane	ND			ND		ug/L				NC	20
cis-1,2-Dichloroethene	ND			ND		ug/L				NC	20
cis-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Dibromomethane	ND			ND		ug/L				NC	20
Dichlorodifluoromethane	ND			ND		ug/L				NC	20
Ethylbenzene	7.2			7.71		ug/L				7	20
Hexachlorobutadiene	ND			ND		ug/L				NC	20
Isopropylbenzene	ND			ND		ug/L				NC	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Methylene Chloride	ND			ND		ug/L				NC	20
n-Butylbenzene	ND			ND		ug/L				NC	20
N-Propylbenzene	ND			ND		ug/L				NC	20
Naphthalene	ND			ND		ug/L				NC	20
sec-Butylbenzene	ND			ND		ug/L				NC	20
Styrene	ND			ND		ug/L				NC	20
tert-Butylbenzene	ND			ND		ug/L				NC	20
Tetrachloroethene (PCE)	ND			ND		ug/L				NC	20
Toluene	68			73.9		ug/L				9	20
trans-1,2-Dichloroethene	ND			ND		ug/L				NC	20
trans-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Trichloroethene (TCE)	ND			ND		ug/L				NC	20
Trichlorofluoromethane	ND			ND		ug/L				NC	20
Vinyl chloride	ND			ND		ug/L				NC	20
Xylenes, Total	71			76.9		ug/L				8	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19078-1

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

Lab Sample ID: 885-19078-1 DU
Matrix: Air
Analysis Batch: 20523

Client Sample ID: Influent 012925
Prep Type: Total/NA

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19078-1

GC/MS VOA

Analysis Batch: 20523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19078-1	Influent 012925	Total/NA	Air	8260B	
MB 885-20523/5	Method Blank	Total/NA	Air	8260B	
LCS 885-20523/4	Lab Control Sample	Total/NA	Air	8260B	
885-19078-1 DU	Influent 012925	Total/NA	Air	8260B	

Analysis Batch: 20524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19078-1	Influent 012925	Total/NA	Air	8015M/D	
MB 885-20524/5	Method Blank	Total/NA	Air	8015M/D	
LCS 885-20524/4	Lab Control Sample	Total/NA	Air	8015M/D	
885-19078-1 DU	Influent 012925	Total/NA	Air	8015M/D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19078-1

Client Sample ID: Influent 012925

Date Collected: 01/29/25 14:55
Date Received: 01/30/25 08:00

Lab Sample ID: 885-19078-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	20524	CM	EET ALB	02/07/25 16:18
Total/NA	Analysis	8260B		50	20523	CM	EET ALB	02/07/25 16:18

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: LC Kelly #1E

Job ID: 885-19078-1

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: LC Kelly #1E

Job ID: 885-19078-1

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: LC Kelly #1E

Job ID: 885-19078-1

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 06, 2025

Hall Environmental
4901 Hawkins St NE Ste D
Albuquerque, NM 87109-4372

Work Order: B25011921 Quote ID: B15626

Project Name: 88501698, LC Kelly #1E

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 1/31/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25011921-001	Influent 012925 (885-19078-1)	01/29/25 14:55	01/31/25	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: Hall Environmental
Project: 88501698, LC Kelly #1E
Lab ID: B25011921-001
Client Sample ID: Influent 012925 (885-19078-1)

Report Date: 02/06/25
Collection Date: 01/29/25 14:55
DateReceived: 01/31/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	20.81	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Nitrogen	77.93	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Carbon Dioxide	1.21	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Hexanes plus	0.05	Mol %		0.01		GPA 2261-13	02/04/25 09:51 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	02/04/25 09:51 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	02/04/25 09:51 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	02/04/25 09:51 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	02/04/25 09:51 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	02/04/25 09:51 / jrj
Hexanes plus	0.021	gpm		0.001		GPA 2261-13	02/04/25 09:51 / jrj
GPM Total	0.021	gpm		0.001		GPA 2261-13	02/04/25 09:51 / jrj
GPM Pentanes plus	0.021	gpm		0.001		GPA 2261-13	02/04/25 09:51 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	2			1		GPA 2261-13	02/04/25 09:51 / jrj
Net BTU per cu ft @ std cond. (LHV)	2			1		GPA 2261-13	02/04/25 09:51 / jrj
Pseudo-critical Pressure, psia	549			1		GPA 2261-13	02/04/25 09:51 / jrj
Pseudo-critical Temperature, deg R	242			1		GPA 2261-13	02/04/25 09:51 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	02/04/25 09:51 / jrj
Air, %	95.08			0.01		GPA 2261-13	02/04/25 09:51 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	02/04/25 09:51 / 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: B25011921 **Report Date:** 02/06/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261-13**										Batch: R436331
Lab ID: **B25011921-001ADUP**	12	Sample Duplicate				Run: GC7890_250204A			02/04/25 10:40	
Oxygen		21.1	Mol %	0.01				1.5	20	
Nitrogen		77.6	Mol %	0.01				0.4	20	
Carbon Dioxide		1.21	Mol %	0.01				0.0	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		0.05	Mol %	0.01				0.0	20	
Lab ID: **LCS020425**	11	Laboratory Control Sample				Run: GC7890_250204A			02/04/25 12:27	
Oxygen		0.62	Mol %	0.01	124	70	130			
Nitrogen		6.03	Mol %	0.01	100	70	130			
Carbon Dioxide		0.99	Mol %	0.01	100	70	130			
Methane		74.8	Mol %	0.01	100	70	130			
Ethane		6.05	Mol %	0.01	101	70	130			
Propane		5.03	Mol %	0.01	102	70	130			
Isobutane		1.73	Mol %	0.01	86	70	130			
n-Butane		2.00	Mol %	0.01	100	70	130			
Isopentane		0.99	Mol %	0.01	99	70	130			
n-Pentane		1.00	Mol %	0.01	100	70	130			
Hexanes plus		0.80	Mol %	0.01	100	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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Work Order Receipt Checklist

Hall Environmental

B25011921

Login completed by: Crystal M. Jones
Date Received: 1/31/2025
Reviewed by: dharris
Received by: KLP
Reviewed Date: 2/3/2025
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:	9.6°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: 885-3731.1
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 #: 885-19078-1
Address: 1120 South 27th Street, ,	Due Date Requested: 2/6/2025	Analysis Requested		Preservation Codes: -
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: LC Kelly #1E	Project #: 88501698			
Site: N/A	SSOW#: N/A			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:						
Influent 012925 (885-19078-1)	1/29/25	14:55 Mountain	G	Air			X	1	See Attached Instructions
									B25011921

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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ 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:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time: 1/30/25 1335	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: Kyle McPherson	Date/Time: 01-31-25 1105	Company ELI

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

Ver: 10/10/2024

ICOC No:
885-3731

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
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: LC Kelly #1E
Project #:
Project Manager: Stuart Hyde
Sampler: AL
On Ice: ☐ Yes ☒ No 40g
# of Coolers: 1
Cooler Temp(including CF): 0.2-0.1=6.1 (°C)

HALL ENVIRONME ANALYSIS LABORA
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-19078 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) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Fixed Gas CO_2 and O_2
1/29/25	1455	AIR	Influent 012925	2-Tedlar				X						X			X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/29/25	1534	AL			1/29/25	1536
1/29/25	1719			courier	1/30/25	8:00

Remarks: cc 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: 885-19078-1

Login Number: 19078 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/19/2025 2:23:40 PM

JOB DESCRIPTION

LC Kelly #1E

JOB NUMBER

885-19537-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
2/19/2025 2:23:40 PM

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

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Laboratory Job ID: 885-19537-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19537-1

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: LC Kelly #1E

Job ID: 885-19537-1

Job ID: 885-19537-1 Eurofins Albuquerque

Job Narrative
885-19537-1

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 2/7/2025 9:59 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

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: LC Kelly #1E

Job ID: 885-19537-1

Client Sample ID: Influent 020525

Lab Sample ID: 885-19537-1

Date Collected: 02/05/25 13:20
Matrix: Air
Date Received: 02/07/25 09:59
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]	2500		250		ug/L			02/17/25 16:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*52 - 172*		*02/17/25 16:41*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			02/17/25 16:41	50
1,1,1-Trichloroethane	ND		5.0		ug/L			02/17/25 16:41	50
1,1,2,2-Tetrachloroethane	ND		10		ug/L			02/17/25 16:41	50
1,1,2-Trichloroethane	ND		5.0		ug/L			02/17/25 16:41	50
1,1-Dichloroethane	ND		5.0		ug/L			02/17/25 16:41	50
1,1-Dichloroethene	ND		5.0		ug/L			02/17/25 16:41	50
1,1-Dichloropropene	ND		5.0		ug/L			02/17/25 16:41	50
1,2,3-Trichlorobenzene	ND		5.0		ug/L			02/17/25 16:41	50
1,2,3-Trichloropropane	ND		10		ug/L			02/17/25 16:41	50
1,2,4-Trichlorobenzene	ND		5.0		ug/L			02/17/25 16:41	50
1,2,4-Trimethylbenzene	ND		5.0		ug/L			02/17/25 16:41	50
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			02/17/25 16:41	50
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			02/17/25 16:41	50
1,2-Dichlorobenzene	ND		5.0		ug/L			02/17/25 16:41	50
1,2-Dichloroethane (EDC)	ND		5.0		ug/L			02/17/25 16:41	50
1,2-Dichloropropane	ND		5.0		ug/L			02/17/25 16:41	50
1,3,5-Trimethylbenzene	ND		5.0		ug/L			02/17/25 16:41	50
1,3-Dichlorobenzene	ND		5.0		ug/L			02/17/25 16:41	50
1,3-Dichloropropane	ND		5.0		ug/L			02/17/25 16:41	50
1,4-Dichlorobenzene	ND		5.0		ug/L			02/17/25 16:41	50
1-Methylnaphthalene	ND		20		ug/L			02/17/25 16:41	50
2,2-Dichloropropane	ND		10		ug/L			02/17/25 16:41	50
2-Butanone	ND		50		ug/L			02/17/25 16:41	50
2-Chlorotoluene	ND		5.0		ug/L			02/17/25 16:41	50
2-Hexanone	ND		50		ug/L			02/17/25 16:41	50
2-Methylnaphthalene	ND		20		ug/L			02/17/25 16:41	50
4-Chlorotoluene	ND		5.0		ug/L			02/17/25 16:41	50
4-Isopropyltoluene	ND		5.0		ug/L			02/17/25 16:41	50
4-Methyl-2-pentanone	ND		50		ug/L			02/17/25 16:41	50
Acetone	ND		50		ug/L			02/17/25 16:41	50
Benzene	8.6		5.0		ug/L			02/17/25 16:41	50
Bromobenzene	ND		5.0		ug/L			02/17/25 16:41	50
Bromodichloromethane	ND		5.0		ug/L			02/17/25 16:41	50
Dibromochloromethane	ND		5.0		ug/L			02/17/25 16:41	50
Bromoform	ND		5.0		ug/L			02/17/25 16:41	50
Bromomethane	ND		15		ug/L			02/17/25 16:41	50
Carbon disulfide	ND		50		ug/L			02/17/25 16:41	50
Carbon tetrachloride	ND		5.0		ug/L			02/17/25 16:41	50
Chlorobenzene	ND		5.0		ug/L			02/17/25 16:41	50
Chloroethane	ND		10		ug/L			02/17/25 16:41	50
Chloroform	ND		5.0		ug/L			02/17/25 16:41	50

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19537-1

Client Sample ID: Influent 020525

Lab Sample ID: 885-19537-1

Date Collected: 02/05/25 13:20
Matrix: Air
Date Received: 02/07/25 09:59
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		15		ug/L			02/17/25 16:41	50
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/17/25 16:41	50
cis-1,3-Dichloropropene	ND		5.0		ug/L			02/17/25 16:41	50
Dibromomethane	ND		5.0		ug/L			02/17/25 16:41	50
Dichlorodifluoromethane	ND		5.0		ug/L			02/17/25 16:41	50
Ethylbenzene	**5.0**		5.0		ug/L			02/17/25 16:41	50
Hexachlorobutadiene	ND		5.0		ug/L			02/17/25 16:41	50
Isopropylbenzene	ND		5.0		ug/L			02/17/25 16:41	50
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			02/17/25 16:41	50
Methylene Chloride	ND		15		ug/L			02/17/25 16:41	50
n-Butylbenzene	ND		15		ug/L			02/17/25 16:41	50
N-Propylbenzene	ND		5.0		ug/L			02/17/25 16:41	50
Naphthalene	ND		10		ug/L			02/17/25 16:41	50
sec-Butylbenzene	ND		5.0		ug/L			02/17/25 16:41	50
Styrene	ND		5.0		ug/L			02/17/25 16:41	50
tert-Butylbenzene	ND		5.0		ug/L			02/17/25 16:41	50
Tetrachloroethene (PCE)	ND		5.0		ug/L			02/17/25 16:41	50
Toluene	**51**		5.0		ug/L			02/17/25 16:41	50
trans-1,2-Dichloroethene	ND		5.0		ug/L			02/17/25 16:41	50
trans-1,3-Dichloropropene	ND		5.0		ug/L			02/17/25 16:41	50
Trichloroethene (TCE)	ND		5.0		ug/L			02/17/25 16:41	50
Trichlorofluoromethane	ND		5.0		ug/L			02/17/25 16:41	50
Vinyl chloride	ND		5.0		ug/L			02/17/25 16:41	50
Xylenes, Total	**49**		7.5		ug/L			02/17/25 16:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/17/25 16:41*	*50*
Toluene-d8 (Surr)	*104*		*70 - 130*		*02/17/25 16:41*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*02/17/25 16:41*	*50*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/17/25 16:41*	*50*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19537-1

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

Lab Sample ID: MB 885-20915/5
Matrix: Air
Analysis Batch: 20915

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			02/17/25 15:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*52 - 172*		*02/17/25 15:53*	*1*

Lab Sample ID: LCS 885-20915/4
Matrix: Air
Analysis Batch: 20915

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	482		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*52 - 172*

Lab Sample ID: 885-19537-1 DU
Matrix: Air
Analysis Batch: 20915

Client Sample ID: Influent 020525
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	2500			2400		ug/L				5	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*52 - 172*

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

Lab Sample ID: MB 885-20919/5
Matrix: Air
Analysis Batch: 20919

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			02/17/25 15:53	1
1,1,1-Trichloroethane	ND		0.10		ug/L			02/17/25 15:53	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/17/25 15:53	1
1,1,2-Trichloroethane	ND		0.10		ug/L			02/17/25 15:53	1
1,1-Dichloroethane	ND		0.10		ug/L			02/17/25 15:53	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/25 15:53	1
1,1-Dichloropropene	ND		0.10		ug/L			02/17/25 15:53	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			02/17/25 15:53	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/17/25 15:53	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			02/17/25 15:53	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			02/17/25 15:53	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			02/17/25 15:53	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			02/17/25 15:53	1
1,2-Dichlorobenzene	ND		0.10		ug/L			02/17/25 15:53	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19537-1

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

Lab Sample ID: MB 885-20919/5
Matrix: Air
Analysis Batch: 20919

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			02/17/25 15:53	1
1,2-Dichloropropane	ND		0.10		ug/L			02/17/25 15:53	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			02/17/25 15:53	1
1,3-Dichlorobenzene	ND		0.10		ug/L			02/17/25 15:53	1
1,3-Dichloropropane	ND		0.10		ug/L			02/17/25 15:53	1
1,4-Dichlorobenzene	ND		0.10		ug/L			02/17/25 15:53	1
1-Methylnaphthalene	ND		0.40		ug/L			02/17/25 15:53	1
2,2-Dichloropropane	ND		0.20		ug/L			02/17/25 15:53	1
2-Butanone	ND		1.0		ug/L			02/17/25 15:53	1
2-Chlorotoluene	ND		0.10		ug/L			02/17/25 15:53	1
2-Hexanone	ND		1.0		ug/L			02/17/25 15:53	1
2-Methylnaphthalene	ND		0.40		ug/L			02/17/25 15:53	1
4-Chlorotoluene	ND		0.10		ug/L			02/17/25 15:53	1
4-Isopropyltoluene	ND		0.10		ug/L			02/17/25 15:53	1
4-Methyl-2-pentanone	ND		1.0		ug/L			02/17/25 15:53	1
Acetone	ND		1.0		ug/L			02/17/25 15:53	1
Benzene	ND		0.10		ug/L			02/17/25 15:53	1
Bromobenzene	ND		0.10		ug/L			02/17/25 15:53	1
Bromodichloromethane	ND		0.10		ug/L			02/17/25 15:53	1
Dibromochloromethane	ND		0.10		ug/L			02/17/25 15:53	1
Bromoform	ND		0.10		ug/L			02/17/25 15:53	1
Bromomethane	ND		0.30		ug/L			02/17/25 15:53	1
Carbon disulfide	ND		1.0		ug/L			02/17/25 15:53	1
Carbon tetrachloride	ND		0.10		ug/L			02/17/25 15:53	1
Chlorobenzene	ND		0.10		ug/L			02/17/25 15:53	1
Chloroethane	ND		0.20		ug/L			02/17/25 15:53	1
Chloroform	ND		0.10		ug/L			02/17/25 15:53	1
Chloromethane	ND		0.30		ug/L			02/17/25 15:53	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			02/17/25 15:53	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			02/17/25 15:53	1
Dibromomethane	ND		0.10		ug/L			02/17/25 15:53	1
Dichlorodifluoromethane	ND		0.10		ug/L			02/17/25 15:53	1
Ethylbenzene	ND		0.10		ug/L			02/17/25 15:53	1
Hexachlorobutadiene	ND		0.10		ug/L			02/17/25 15:53	1
Isopropylbenzene	ND		0.10		ug/L			02/17/25 15:53	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			02/17/25 15:53	1
Methylene Chloride	ND		0.30		ug/L			02/17/25 15:53	1
n-Butylbenzene	ND		0.30		ug/L			02/17/25 15:53	1
N-Propylbenzene	ND		0.10		ug/L			02/17/25 15:53	1
Naphthalene	ND		0.20		ug/L			02/17/25 15:53	1
sec-Butylbenzene	ND		0.10		ug/L			02/17/25 15:53	1
Styrene	ND		0.10		ug/L			02/17/25 15:53	1
tert-Butylbenzene	ND		0.10		ug/L			02/17/25 15:53	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			02/17/25 15:53	1
Toluene	ND		0.10		ug/L			02/17/25 15:53	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			02/17/25 15:53	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			02/17/25 15:53	1
Trichloroethene (TCE)	ND		0.10		ug/L			02/17/25 15:53	1
Trichlorofluoromethane	ND		0.10		ug/L			02/17/25 15:53	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19537-1

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

Lab Sample ID: MB 885-20919/5
Matrix: Air
Analysis Batch: 20919

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.10		ug/L			02/17/25 15:53	1
Xylenes, Total	ND		0.15		ug/L			02/17/25 15:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*02/17/25 15:53*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*02/17/25 15:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*02/17/25 15:53*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*02/17/25 15:53*	*1*

Lab Sample ID: LCS 885-20919/4
Matrix: Air
Analysis Batch: 20919

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	19.5		ug/L		97	70 - 130		
Benzene			20.1	20.4		ug/L		101	70 - 130		
Chlorobenzene			20.1	19.7		ug/L		98	70 - 130		
Toluene			20.2	19.4		ug/L		96	70 - 130		
Trichloroethene (TCE)			20.2	19.8		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: 885-19537-1 DU
Matrix: Air
Analysis Batch: 20919

Client Sample ID: Influent 020525
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,1-Trichloroethane	ND			ND		ug/L				NC	20
1,1,2,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,2-Trichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethene	ND			ND		ug/L				NC	20
1,1-Dichloropropene	ND			ND		ug/L				NC	20
1,2,3-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2,4-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,4-Trimethylbenzene	ND			ND		ug/L				NC	20
1,2-Dibromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-Dibromoethane (EDB)	ND			ND		ug/L				NC	20
1,2-Dichlorobenzene	ND			ND		ug/L				NC	20
1,2-Dichloroethane (EDC)	ND			ND		ug/L				NC	20
1,2-Dichloropropane	ND			ND		ug/L				NC	20
1,3,5-Trimethylbenzene	ND			ND		ug/L				NC	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19537-1

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

Lab Sample ID: 885-19537-1 DU
Matrix: Air
Analysis Batch: 20919

Client Sample ID: Influent 020525
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,3-Dichlorobenzene	ND			ND		ug/L				NC	20
1,3-Dichloropropane	ND			ND		ug/L				NC	20
1,4-Dichlorobenzene	ND			ND		ug/L				NC	20
1-Methylnaphthalene	ND			ND		ug/L				NC	20
2,2-Dichloropropane	ND			ND		ug/L				NC	20
2-Butanone	ND			ND		ug/L				NC	20
2-Chlorotoluene	ND			ND		ug/L				NC	20
2-Hexanone	ND			ND		ug/L				NC	20
2-Methylnaphthalene	ND			ND		ug/L				NC	20
4-Chlorotoluene	ND			ND		ug/L				NC	20
4-Isopropyltoluene	ND			ND		ug/L				NC	20
4-Methyl-2-pentanone	ND			ND		ug/L				NC	20
Acetone	ND			ND		ug/L				NC	20
Benzene	8.6			8.45		ug/L				2	20
Bromobenzene	ND			ND		ug/L				NC	20
Bromodichloromethane	ND			ND		ug/L				NC	20
Dibromochloromethane	ND			ND		ug/L				NC	20
Bromoform	ND			ND		ug/L				NC	20
Bromomethane	ND			ND		ug/L				NC	20
Carbon disulfide	ND			ND		ug/L				NC	20
Carbon tetrachloride	ND			ND		ug/L				NC	20
Chlorobenzene	ND			ND		ug/L				NC	20
Chloroethane	ND			ND		ug/L				NC	20
Chloroform	ND			ND		ug/L				NC	20
Chloromethane	ND			ND		ug/L				NC	20
cis-1,2-Dichloroethene	ND			ND		ug/L				NC	20
cis-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Dibromomethane	ND			ND		ug/L				NC	20
Dichlorodifluoromethane	ND			ND		ug/L				NC	20
Ethylbenzene	5.0			4.40		ug/L				12	20
Hexachlorobutadiene	ND			ND		ug/L				NC	20
Isopropylbenzene	ND			ND		ug/L				NC	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Methylene Chloride	ND			ND		ug/L				NC	20
n-Butylbenzene	ND			ND		ug/L				NC	20
N-Propylbenzene	ND			ND		ug/L				NC	20
Naphthalene	ND			ND		ug/L				NC	20
sec-Butylbenzene	ND			ND		ug/L				NC	20
Styrene	ND			ND		ug/L				NC	20
tert-Butylbenzene	ND			ND		ug/L				NC	20
Tetrachloroethene (PCE)	ND			ND		ug/L				NC	20
Toluene	51			47.7		ug/L				6	20
trans-1,2-Dichloroethene	ND			ND		ug/L				NC	20
trans-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Trichloroethene (TCE)	ND			ND		ug/L				NC	20
Trichlorofluoromethane	ND			ND		ug/L				NC	20
Vinyl chloride	ND			ND		ug/L				NC	20
Xylenes, Total	49			43.7		ug/L				12	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19537-1

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

Lab Sample ID: 885-19537-1 DU
Matrix: Air
Analysis Batch: 20919

Client Sample ID: Influent 020525
Prep Type: Total/NA

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19537-1

GC/MS VOA

Analysis Batch: 20915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19537-1	Influent 020525	Total/NA	Air	8015M/D	
MB 885-20915/5	Method Blank	Total/NA	Air	8015M/D	
LCS 885-20915/4	Lab Control Sample	Total/NA	Air	8015M/D	
885-19537-1 DU	Influent 020525	Total/NA	Air	8015M/D	

Analysis Batch: 20919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19537-1	Influent 020525	Total/NA	Air	8260B	
MB 885-20919/5	Method Blank	Total/NA	Air	8260B	
LCS 885-20919/4	Lab Control Sample	Total/NA	Air	8260B	
885-19537-1 DU	Influent 020525	Total/NA	Air	8260B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19537-1

Client Sample ID: Influent 020525

Lab Sample ID: 885-19537-1

Date Collected: 02/05/25 13:20

Matrix: Air

Date Received: 02/07/25 09:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	20915	CM	EET ALB	02/17/25 16:41
Total/NA	Analysis	8260B		50	20919	CM	EET ALB	02/17/25 16:41

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: LC Kelly #1E

Job ID: 885-19537-1

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: LC Kelly #1E

Job ID: 885-19537-1

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: LC Kelly #1E

Job ID: 885-19537-1

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 13, 2025

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

Work Order: B25020522 Quote ID: B15626

Project Name: 88501698, LC Kelly #1E

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 2/11/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25020522-001	Influent 020525 (885-19537-1)	02/05/25 13:20	02/11/25	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, LC Kelly #1E
Lab ID: B25020522-001
Client Sample ID: Influent 020525 (885-19537-1)

Report Date: 02/13/25
Collection Date: 02/05/25 13:20
DateReceived: 02/11/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	20.97	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Nitrogen	78.10	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Carbon Dioxide	0.89	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Hexanes plus	0.04	Mol %		0.01		GPA 2261-13	02/12/25 11:39 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	02/12/25 11:39 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	02/12/25 11:39 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	02/12/25 11:39 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	02/12/25 11:39 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	02/12/25 11:39 / jrj
Hexanes plus	0.017	gpm		0.001		GPA 2261-13	02/12/25 11:39 / jrj
GPM Total	0.017	gpm		0.001		GPA 2261-13	02/12/25 11:39 / jrj
GPM Pentanes plus	0.017	gpm		0.001		GPA 2261-13	02/12/25 11:39 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	2			1		GPA 2261-13	02/12/25 11:39 / jrj
Net BTU per cu ft @ std cond. (LHV)	2			1		GPA 2261-13	02/12/25 11:39 / jrj
Pseudo-critical Pressure, psia	548			1		GPA 2261-13	02/12/25 11:39 / jrj
Pseudo-critical Temperature, deg R	241			1		GPA 2261-13	02/12/25 11:39 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	02/12/25 11:39 / jrj
Air, %	95.83			0.01		GPA 2261-13	02/12/25 11:39 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	02/12/25 11:39 / 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: B25020522 **Report Date:** 02/13/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261-13**										Batch: R436745
Lab ID: **B25020523-001ADUP**	12	Sample Duplicate				Run: GC7890_250212A			02/12/25 13:16	
Oxygen		21.8	Mol %	0.01				3.2	20	
Nitrogen		78.1	Mol %	0.01				0.9	20	
Carbon Dioxide		0.07	Mol %	0.01				13	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: **LCS021225**	11	Laboratory Control Sample				Run: GC7890_250212A			02/12/25 03:01	
Oxygen		0.62	Mol %	0.01	124	70	130			
Nitrogen		6.10	Mol %	0.01	102	70	130			
Carbon Dioxide		0.98	Mol %	0.01	99	70	130			
Methane		74.7	Mol %	0.01	100	70	130			
Ethane		6.01	Mol %	0.01	100	70	130			
Propane		5.03	Mol %	0.01	102	70	130			
Isobutane		1.75	Mol %	0.01	87	70	130			
n-Butane		1.99	Mol %	0.01	99	70	130			
Isopentane		1.00	Mol %	0.01	100	70	130			
n-Pentane		1.01	Mol %	0.01	101	70	130			
Hexanes plus		0.80	Mol %	0.01	100	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 B25020522

Login completed by: Crystal M. Jones
Date Received: 2/11/2025
Reviewed by: lleprowse
Received by: KLP
Reviewed Date: 2/11/2025
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:	7.0°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:

A custody seal was present on the shipping container, but was not signed and dated. CMJ 02/11/25

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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: 885-3840.1
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 #: 885-19537-1
Address: 1120 South 27th Street, ,	Due Date Requested: 2/14/2025			
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: LC Kelly #1E	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:						
Influent 020525 (885-19537-1)	2/5/25	13:20 Mountain	G	Air			X	1	See Attached Instructions B2502052z

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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ 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:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: Kyelie P & Luke Yarbrough	Date/Time: 02-11-25 1445	Company ELI

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

Ver: 10/10/2024

ICOC No:
885-3840

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
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:
10 Day TAT
☒ Standard ☐ Rush
Project Name: LC Kelly #1E
Project #:
Project Manager: Stuart Hyde
Sampler: Angel Lemaire
On Ice: ☐ Yes ☐ No
# of Coolers: 1 Mojo
Cooler Temp (including CF): 1.6 + 0.1 = 1.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-19537 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) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Fixed Gases: CO_2 & O_2
2/5/25	1320	Air	Influent 020525	2- Tedlar				X						X			X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/6/25 2/5/25	1544				2/6/25	1544
2/6/25	1722			courier	2/7/25	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: 885-19537-1

Login Number: 19537 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/6/2025 1:54:06 PM

JOB DESCRIPTION

LC Kelly #1E

JOB NUMBER

885-19884-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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3/6/2025 1:54:06 PM

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

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Laboratory Job ID: 885-19884-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19884-1

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: LC Kelly #1E

Job ID: 885-19884-1

Job ID: 885-19884-1 Eurofins Albuquerque

Job Narrative
885-19884-1

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 2/13/2025 6:30 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 9.1°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: LC Kelly #1E

Job ID: 885-19884-1

Client Sample ID: Influent 021225

Lab Sample ID: 885-19884-1

Date Collected: 02/12/25 12:40
Matrix: Air
Date Received: 02/13/25 06:30
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]	2500		250		ug/L			02/21/25 13:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*52 - 172*		*02/21/25 13:44*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			02/21/25 13:44	50
1,1,1-Trichloroethane	ND		5.0		ug/L			02/21/25 13:44	50
1,1,2,2-Tetrachloroethane	ND		10		ug/L			02/21/25 13:44	50
1,1,2-Trichloroethane	ND		5.0		ug/L			02/21/25 13:44	50
1,1-Dichloroethane	ND		5.0		ug/L			02/21/25 13:44	50
1,1-Dichloroethene	ND		5.0		ug/L			02/21/25 13:44	50
1,1-Dichloropropene	ND		5.0		ug/L			02/21/25 13:44	50
1,2,3-Trichlorobenzene	ND		5.0		ug/L			02/21/25 13:44	50
1,2,3-Trichloropropane	ND		10		ug/L			02/21/25 13:44	50
1,2,4-Trichlorobenzene	ND		5.0		ug/L			02/21/25 13:44	50
1,2,4-Trimethylbenzene	ND		5.0		ug/L			02/21/25 13:44	50
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			02/21/25 13:44	50
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			02/21/25 13:44	50
1,2-Dichlorobenzene	ND		5.0		ug/L			02/21/25 13:44	50
1,2-Dichloroethane (EDC)	ND		5.0		ug/L			02/21/25 13:44	50
1,2-Dichloropropane	ND		5.0		ug/L			02/21/25 13:44	50
1,3,5-Trimethylbenzene	ND		5.0		ug/L			02/21/25 13:44	50
1,3-Dichlorobenzene	ND		5.0		ug/L			02/21/25 13:44	50
1,3-Dichloropropane	ND		5.0		ug/L			02/21/25 13:44	50
1,4-Dichlorobenzene	ND		5.0		ug/L			02/21/25 13:44	50
1-Methylnaphthalene	ND		20		ug/L			02/21/25 13:44	50
2,2-Dichloropropane	ND		10		ug/L			02/21/25 13:44	50
2-Butanone	ND		50		ug/L			02/21/25 13:44	50
2-Chlorotoluene	ND		5.0		ug/L			02/21/25 13:44	50
2-Hexanone	ND		50		ug/L			02/21/25 13:44	50
2-Methylnaphthalene	ND		20		ug/L			02/21/25 13:44	50
4-Chlorotoluene	ND		5.0		ug/L			02/21/25 13:44	50
4-Isopropyltoluene	ND		5.0		ug/L			02/21/25 13:44	50
4-Methyl-2-pentanone	ND		50		ug/L			02/21/25 13:44	50
Acetone	ND		50		ug/L			02/21/25 13:44	50
Benzene	8.9		5.0		ug/L			02/21/25 13:44	50
Bromobenzene	ND		5.0		ug/L			02/21/25 13:44	50
Bromodichloromethane	ND		5.0		ug/L			02/21/25 13:44	50
Dibromochloromethane	ND		5.0		ug/L			02/21/25 13:44	50
Bromoform	ND		5.0		ug/L			02/21/25 13:44	50
Bromomethane	ND		15		ug/L			02/21/25 13:44	50
Carbon disulfide	ND		50		ug/L			02/21/25 13:44	50
Carbon tetrachloride	ND		5.0		ug/L			02/21/25 13:44	50
Chlorobenzene	ND		5.0		ug/L			02/21/25 13:44	50
Chloroethane	ND		10		ug/L			02/21/25 13:44	50
Chloroform	ND		5.0		ug/L			02/21/25 13:44	50

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19884-1

Client Sample ID: Influent 021225
Date Collected: 02/12/25 12:40
Date Received: 02/13/25 06:30
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-19884-1
Matrix: Air

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		15		ug/L			02/21/25 13:44	50
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/21/25 13:44	50
cis-1,3-Dichloropropene	ND		5.0		ug/L			02/21/25 13:44	50
Dibromomethane	ND		5.0		ug/L			02/21/25 13:44	50
Dichlorodifluoromethane	ND		5.0		ug/L			02/21/25 13:44	50
Ethylbenzene	ND		5.0		ug/L			02/21/25 13:44	50
Hexachlorobutadiene	ND		5.0		ug/L			02/21/25 13:44	50
Isopropylbenzene	ND		5.0		ug/L			02/21/25 13:44	50
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			02/21/25 13:44	50
Methylene Chloride	ND		15		ug/L			02/21/25 13:44	50
n-Butylbenzene	ND		15		ug/L			02/21/25 13:44	50
N-Propylbenzene	ND		5.0		ug/L			02/21/25 13:44	50
Naphthalene	ND		10		ug/L			02/21/25 13:44	50
sec-Butylbenzene	ND		5.0		ug/L			02/21/25 13:44	50
Styrene	ND		5.0		ug/L			02/21/25 13:44	50
tert-Butylbenzene	ND		5.0		ug/L			02/21/25 13:44	50
Tetrachloroethene (PCE)	ND		5.0		ug/L			02/21/25 13:44	50
Toluene	**58**		5.0		ug/L			02/21/25 13:44	50
trans-1,2-Dichloroethene	ND		5.0		ug/L			02/21/25 13:44	50
trans-1,3-Dichloropropene	ND		5.0		ug/L			02/21/25 13:44	50
Trichloroethene (TCE)	ND		5.0		ug/L			02/21/25 13:44	50
Trichlorofluoromethane	ND		5.0		ug/L			02/21/25 13:44	50
Vinyl chloride	ND		5.0		ug/L			02/21/25 13:44	50
Xylenes, Total	**25**		7.5		ug/L			02/21/25 13:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*02/21/25 13:44*	*50*
Toluene-d8 (Surr)	*103*		*70 - 130*		*02/21/25 13:44*	*50*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*02/21/25 13:44*	*50*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*02/21/25 13:44*	*50*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19884-1

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)			

Lab Sample ID: 885-19884-1 DU
Matrix: Air
Analysis Batch: 21215

Client Sample ID: Influent 021225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	2500			2760		ug/L				9	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*52 - 172*

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

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19884-1

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
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
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

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19884-1

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
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*

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*

Lab Sample ID: 885-19884-1 DU
Matrix: Air
Analysis Batch: 21216

Client Sample ID: Influent 021225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,1-Trichloroethane	ND			ND		ug/L				NC	20
1,1,2,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,2-Trichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethene	ND			ND		ug/L				NC	20
1,1-Dichloropropene	ND			ND		ug/L				NC	20
1,2,3-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2,4-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,4-Trimethylbenzene	ND			ND		ug/L				NC	20
1,2-Dibromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-Dibromoethane (EDB)	ND			ND		ug/L				NC	20
1,2-Dichlorobenzene	ND			ND		ug/L				NC	20
1,2-Dichloroethane (EDC)	ND			ND		ug/L				NC	20
1,2-Dichloropropane	ND			ND		ug/L				NC	20
1,3,5-Trimethylbenzene	ND			ND		ug/L				NC	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19884-1

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

Lab Sample ID: 885-19884-1 DU
Matrix: Air
Analysis Batch: 21216

Client Sample ID: Influent 021225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,3-Dichlorobenzene	ND			ND		ug/L				NC	20
1,3-Dichloropropane	ND			ND		ug/L				NC	20
1,4-Dichlorobenzene	ND			ND		ug/L				NC	20
1-Methylnaphthalene	ND			ND		ug/L				NC	20
2,2-Dichloropropane	ND			ND		ug/L				NC	20
2-Butanone	ND			ND		ug/L				NC	20
2-Chlorotoluene	ND			ND		ug/L				NC	20
2-Hexanone	ND			ND		ug/L				NC	20
2-Methylnaphthalene	ND			ND		ug/L				NC	20
4-Chlorotoluene	ND			ND		ug/L				NC	20
4-Isopropyltoluene	ND			ND		ug/L				NC	20
4-Methyl-2-pentanone	ND			ND		ug/L				NC	20
Acetone	ND			ND		ug/L				NC	20
Benzene	8.9			8.62		ug/L				3	20
Bromobenzene	ND			ND		ug/L				NC	20
Bromodichloromethane	ND			ND		ug/L				NC	20
Dibromochloromethane	ND			ND		ug/L				NC	20
Bromoform	ND			ND		ug/L				NC	20
Bromomethane	ND			ND		ug/L				NC	20
Carbon disulfide	ND			ND		ug/L				NC	20
Carbon tetrachloride	ND			ND		ug/L				NC	20
Chlorobenzene	ND			ND		ug/L				NC	20
Chloroethane	ND			ND		ug/L				NC	20
Chloroform	ND			ND		ug/L				NC	20
Chloromethane	ND			ND		ug/L				NC	20
cis-1,2-Dichloroethene	ND			ND		ug/L				NC	20
cis-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Dibromomethane	ND			ND		ug/L				NC	20
Dichlorodifluoromethane	ND			ND		ug/L				NC	20
Ethylbenzene	ND			ND		ug/L				NC	20
Hexachlorobutadiene	ND			ND		ug/L				NC	20
Isopropylbenzene	ND			ND		ug/L				NC	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Methylene Chloride	ND			ND		ug/L				NC	20
n-Butylbenzene	ND			ND		ug/L				NC	20
N-Propylbenzene	ND			ND		ug/L				NC	20
Naphthalene	ND			ND		ug/L				NC	20
sec-Butylbenzene	ND			ND		ug/L				NC	20
Styrene	ND			ND		ug/L				NC	20
tert-Butylbenzene	ND			ND		ug/L				NC	20
Tetrachloroethene (PCE)	ND			ND		ug/L				NC	20
Toluene	58			62.4		ug/L				7	20
trans-1,2-Dichloroethene	ND			ND		ug/L				NC	20
trans-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Trichloroethene (TCE)	ND			ND		ug/L				NC	20
Trichlorofluoromethane	ND			ND		ug/L				NC	20
Vinyl chloride	ND			ND		ug/L				NC	20
Xylenes, Total	25			27.5		ug/L				10	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19884-1

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

Lab Sample ID: 885-19884-1 DU
Matrix: Air
Analysis Batch: 21216

Client Sample ID: Influent 021225
Prep Type: Total/NA

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
Toluene-d8 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19884-1

GC/MS VOA

Analysis Batch: 21215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19884-1	Influent 021225	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	
885-19884-1 DU	Influent 021225	Total/NA	Air	8015M/D	

Analysis Batch: 21216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19884-1	Influent 021225	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	
885-19884-1 DU	Influent 021225	Total/NA	Air	8260B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-19884-1

Client Sample ID: Influent 021225

Date Collected: 02/12/25 12:40
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19884-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	21215	CM	EET ALB	02/21/25 13:44
Total/NA	Analysis	8260B		50	21216	CM	EET ALB	02/21/25 13:44

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: LC Kelly #1E

Job ID: 885-19884-1

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: LC Kelly #1E

Job ID: 885-19884-1

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: LC Kelly #1E

Job ID: 885-19884-1

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: B25020797 Quote ID: B15626

Project Name: LC Kelly #1E - 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 2/14/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25020797-001	Influent 021225 (885-19884-1)	02/12/25 12:40	02/14/25	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: LC Kelly #1E - 88501698
Lab ID: B25020797-001
Client Sample ID: Influent 021225 (885-19884-1)

Report Date: 02/19/25
Collection Date: 02/12/25 12:40
DateReceived: 02/14/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	21.53	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Nitrogen	77.69	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Carbon Dioxide	0.74	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Hexanes plus	0.04	Mol %		0.01		GPA 2261-13	02/18/25 12:05 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	02/18/25 12:05 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	02/18/25 12:05 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	02/18/25 12:05 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	02/18/25 12:05 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	02/18/25 12:05 / jrj
Hexanes plus	0.017	gpm		0.001		GPA 2261-13	02/18/25 12:05 / jrj
GPM Total	0.017	gpm		0.001		GPA 2261-13	02/18/25 12:05 / jrj
GPM Pentanes plus	0.017	gpm		0.001		GPA 2261-13	02/18/25 12:05 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	2			1		GPA 2261-13	02/18/25 12:05 / jrj
Net BTU per cu ft @ std cond. (LHV)	2			1		GPA 2261-13	02/18/25 12:05 / jrj
Pseudo-critical Pressure, psia	548			1		GPA 2261-13	02/18/25 12:05 / jrj
Pseudo-critical Temperature, deg R	241			1		GPA 2261-13	02/18/25 12:05 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	02/18/25 12:05 / jrj
Air, %	98.35			0.01		GPA 2261-13	02/18/25 12:05 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	02/18/25 12:05 / 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: B25020797 **Report Date:** 02/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261-13**										Batch: R436946
Lab ID: **B25020797-001ADUP**	12	Sample Duplicate				Run: GC7890_250218A			02/18/25 12:54	
Oxygen		21.1	Mol %	0.01				2.1	20	
Nitrogen		78.2	Mol %	0.01				0.6	20	
Carbon Dioxide		0.73	Mol %	0.01				1.4	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		0.04	Mol %	0.01				0.0	20	
Lab ID: **LCS021825**	11	Laboratory Control Sample				Run: GC7890_250218A			02/18/25 14:43	
Oxygen		0.63	Mol %	0.01	126	70	130			
Nitrogen		5.75	Mol %	0.01	96	70	130			
Carbon Dioxide		1.03	Mol %	0.01	104	70	130			
Methane		74.9	Mol %	0.01	100	70	130			
Ethane		6.04	Mol %	0.01	101	70	130			
Propane		5.01	Mol %	0.01	101	70	130			
Isobutane		1.84	Mol %	0.01	92	70	130			
n-Butane		2.00	Mol %	0.01	100	70	130			
Isopentane		1.02	Mol %	0.01	102	70	130			
n-Pentane		1.01	Mol %	0.01	101	70	130			
Hexanes plus		0.80	Mol %	0.01	100	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 B25020797

Login completed by: Kyelie L. Pflock
Date Received: 2/14/2025
Reviewed by: dharris
Received by: KLP
Reviewed Date: 2/18/2025
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:	2.4°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:

The cooler was received with a custody seal intact but was not signed or dated. KLP 02/14/25

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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: 885-3884.1
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 #: 885-19884-1
Address: 1120 South 27th Street, ,	Due Date Requested: 2/20/2025			
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: LC Kelly #1E	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:						
Influent 021225 (885-19884-1)	2/12/25	12:40 Mountain	G	Air			X	1	See Attached Instructions B25020797

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	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *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:	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: 02-14-25 1100	Company ELI

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

Ver: 10/10/2024

ICOC No:
885-3884

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
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:
10 Day TAT
☒ Standard ☐ Rush
Project Name:
LC Kelly #1E
Project #:
Project Manager:
Stuart Hyde
Sampler: Aaron Lemeny
On Ice: ☐ Yes ☒ No 40g
# of Coolers: 1
Cooler Temp(including CF): 9.1+0=9.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABOR
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 871(
Tel. 505-345-3975 Fax 505-345-4107
885-19884 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) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Fixed Gases: CO_2 & O_2
2/12/25	1240	Air	Influent 021225	2-Tedlar				X						X			X

Date	Time.	Relinquished by	Received by:	Via:	Date	Time
2/12/25	1401				2/12/25	1401
2/12/25	1740			courier	2/13/25	4:30

Remarks:

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

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-19884-1

Login Number: 19884 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/1/2025 4:59:37 PM

JOB DESCRIPTION

LC Kelly #1E

JOB NUMBER

885-21407-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Laboratory Job ID: 885-21407-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-21407-1

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: LC Kelly #1E

Job ID: 885-21407-1

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Job Narrative
885-21407-1

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 3/13/2025 7:00 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 7.8°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: LC Kelly #1E

Job ID: 885-21407-1

Client Sample ID: Influent 031225

Lab Sample ID: 885-21407-1
Matrix: Air
Date Collected: 03/12/25 13:00
Date Received: 03/13/25 07:00
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]	660		250		ug/L			03/26/25 13:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*52 - 172*		*03/26/25 13:51*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			03/26/25 13:51	50
1,1,1-Trichloroethane	ND		5.0		ug/L			03/26/25 13:51	50
1,1,2,2-Tetrachloroethane	ND		10		ug/L			03/26/25 13:51	50
1,1,2-Trichloroethane	ND		5.0		ug/L			03/26/25 13:51	50
1,1-Dichloroethane	ND		5.0		ug/L			03/26/25 13:51	50
1,1-Dichloroethene	ND		5.0		ug/L			03/26/25 13:51	50
1,1-Dichloropropene	ND		5.0		ug/L			03/26/25 13:51	50
1,2,3-Trichlorobenzene	ND		5.0		ug/L			03/26/25 13:51	50
1,2,3-Trichloropropane	ND		10		ug/L			03/26/25 13:51	50
1,2,4-Trichlorobenzene	ND		5.0		ug/L			03/26/25 13:51	50
1,2,4-Trimethylbenzene	ND		5.0		ug/L			03/26/25 13:51	50
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			03/26/25 13:51	50
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			03/26/25 13:51	50
1,2-Dichlorobenzene	ND		5.0		ug/L			03/26/25 13:51	50
1,2-Dichloroethane (EDC)	ND		5.0		ug/L			03/26/25 13:51	50
1,2-Dichloropropane	ND		5.0		ug/L			03/26/25 13:51	50
1,3,5-Trimethylbenzene	ND		5.0		ug/L			03/26/25 13:51	50
1,3-Dichlorobenzene	ND		5.0		ug/L			03/26/25 13:51	50
1,3-Dichloropropane	ND		5.0		ug/L			03/26/25 13:51	50
1,4-Dichlorobenzene	ND		5.0		ug/L			03/26/25 13:51	50
1-Methylnaphthalene	ND		20		ug/L			03/26/25 13:51	50
2,2-Dichloropropane	ND		10		ug/L			03/26/25 13:51	50
2-Butanone	ND		50		ug/L			03/26/25 13:51	50
2-Chlorotoluene	ND		5.0		ug/L			03/26/25 13:51	50
2-Hexanone	ND		50		ug/L			03/26/25 13:51	50
2-Methylnaphthalene	ND		20		ug/L			03/26/25 13:51	50
4-Chlorotoluene	ND		5.0		ug/L			03/26/25 13:51	50
4-Isopropyltoluene	ND		5.0		ug/L			03/26/25 13:51	50
4-Methyl-2-pentanone	ND		50		ug/L			03/26/25 13:51	50
Acetone	ND		50		ug/L			03/26/25 13:51	50
Benzene	ND		5.0		ug/L			03/26/25 13:51	50
Bromobenzene	ND		5.0		ug/L			03/26/25 13:51	50
Bromodichloromethane	ND		5.0		ug/L			03/26/25 13:51	50
Dibromochloromethane	ND		5.0		ug/L			03/26/25 13:51	50
Bromoform	ND		5.0		ug/L			03/26/25 13:51	50
Bromomethane	ND		15		ug/L			03/26/25 13:51	50
Carbon disulfide	ND		50		ug/L			03/26/25 13:51	50
Carbon tetrachloride	ND		5.0		ug/L			03/26/25 13:51	50
Chlorobenzene	ND		5.0		ug/L			03/26/25 13:51	50
Chloroethane	ND		10		ug/L			03/26/25 13:51	50
Chloroform	ND		5.0		ug/L			03/26/25 13:51	50

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-21407-1

Client Sample ID: Influent 031225

Lab Sample ID: 885-21407-1
Matrix: Air
Date Collected: 03/12/25 13:00
Date Received: 03/13/25 07:00
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		15		ug/L			03/26/25 13:51	50
cis-1,2-Dichloroethene	ND		5.0		ug/L			03/26/25 13:51	50
cis-1,3-Dichloropropene	ND		5.0		ug/L			03/26/25 13:51	50
Dibromomethane	ND		5.0		ug/L			03/26/25 13:51	50
Dichlorodifluoromethane	ND		5.0		ug/L			03/26/25 13:51	50
Ethylbenzene	ND		5.0		ug/L			03/26/25 13:51	50
Hexachlorobutadiene	ND		5.0		ug/L			03/26/25 13:51	50
Isopropylbenzene	ND		5.0		ug/L			03/26/25 13:51	50
Methyl-tert-butyl Ether (MTBE)	ND		5.0		ug/L			03/26/25 13:51	50
Methylene Chloride	ND		15		ug/L			03/26/25 13:51	50
n-Butylbenzene	ND		15		ug/L			03/26/25 13:51	50
N-Propylbenzene	ND		5.0		ug/L			03/26/25 13:51	50
Naphthalene	ND		10		ug/L			03/26/25 13:51	50
sec-Butylbenzene	ND		5.0		ug/L			03/26/25 13:51	50
Styrene	ND		5.0		ug/L			03/26/25 13:51	50
tert-Butylbenzene	ND		5.0		ug/L			03/26/25 13:51	50
Tetrachloroethene (PCE)	ND		5.0		ug/L			03/26/25 13:51	50
Toluene	**6.1**		5.0		ug/L			03/26/25 13:51	50
trans-1,2-Dichloroethene	ND		5.0		ug/L			03/26/25 13:51	50
trans-1,3-Dichloropropene	ND		5.0		ug/L			03/26/25 13:51	50
Trichloroethene (TCE)	ND		5.0		ug/L			03/26/25 13:51	50
Trichlorofluoromethane	ND		5.0		ug/L			03/26/25 13:51	50
Vinyl chloride	ND		5.0		ug/L			03/26/25 13:51	50
Xylenes, Total	ND		7.5		ug/L			03/26/25 13:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*03/26/25 13:51*	*50*
Toluene-d8 (Surr)	*109*		*70 - 130*		*03/26/25 13:51*	*50*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*03/26/25 13:51*	*50*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*03/26/25 13:51*	*50*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-21407-1

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

Lab Sample ID: MB 885-23097/5
Matrix: Air
Analysis Batch: 23097

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			03/26/25 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*52 - 172*		*03/26/25 12:36*	*1*

Lab Sample ID: LCS 885-23097/4
Matrix: Air
Analysis Batch: 23097

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	548		ug/L					

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

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

Lab Sample ID: MB 885-23091/4
Matrix: Air
Analysis Batch: 23091

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			03/26/25 12:36	1
1,1,1-Trichloroethane	ND		0.10		ug/L			03/26/25 12:36	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			03/26/25 12:36	1
1,1,2-Trichloroethane	ND		0.10		ug/L			03/26/25 12:36	1
1,1-Dichloroethane	ND		0.10		ug/L			03/26/25 12:36	1
1,1-Dichloroethene	ND		0.10		ug/L			03/26/25 12:36	1
1,1-Dichloropropene	ND		0.10		ug/L			03/26/25 12:36	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			03/26/25 12:36	1
1,2,3-Trichloropropane	ND		0.20		ug/L			03/26/25 12:36	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			03/26/25 12:36	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			03/26/25 12:36	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			03/26/25 12:36	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			03/26/25 12:36	1
1,2-Dichlorobenzene	ND		0.10		ug/L			03/26/25 12:36	1
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			03/26/25 12:36	1
1,2-Dichloropropane	ND		0.10		ug/L			03/26/25 12:36	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			03/26/25 12:36	1
1,3-Dichlorobenzene	ND		0.10		ug/L			03/26/25 12:36	1
1,3-Dichloropropane	ND		0.10		ug/L			03/26/25 12:36	1
1,4-Dichlorobenzene	ND		0.10		ug/L			03/26/25 12:36	1
1-Methylnaphthalene	ND		0.40		ug/L			03/26/25 12:36	1
2,2-Dichloropropane	ND		0.20		ug/L			03/26/25 12:36	1
2-Butanone	ND		1.0		ug/L			03/26/25 12:36	1
2-Chlorotoluene	ND		0.10		ug/L			03/26/25 12:36	1
2-Hexanone	ND		1.0		ug/L			03/26/25 12:36	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-21407-1

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

Lab Sample ID: MB 885-23091/4
Matrix: Air
Analysis Batch: 23091

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			03/26/25 12:36	1
4-Chlorotoluene	ND		0.10		ug/L			03/26/25 12:36	1
4-Isopropyltoluene	ND		0.10		ug/L			03/26/25 12:36	1
4-Methyl-2-pentanone	ND		1.0		ug/L			03/26/25 12:36	1
Acetone	ND		1.0		ug/L			03/26/25 12:36	1
Benzene	ND		0.10		ug/L			03/26/25 12:36	1
Bromobenzene	ND		0.10		ug/L			03/26/25 12:36	1
Bromodichloromethane	ND		0.10		ug/L			03/26/25 12:36	1
Dibromochloromethane	ND		0.10		ug/L			03/26/25 12:36	1
Bromoform	ND		0.10		ug/L			03/26/25 12:36	1
Bromomethane	ND		0.30		ug/L			03/26/25 12:36	1
Carbon disulfide	ND		1.0		ug/L			03/26/25 12:36	1
Carbon tetrachloride	ND		0.10		ug/L			03/26/25 12:36	1
Chlorobenzene	ND		0.10		ug/L			03/26/25 12:36	1
Chloroethane	ND		0.20		ug/L			03/26/25 12:36	1
Chloroform	ND		0.10		ug/L			03/26/25 12:36	1
Chloromethane	ND		0.30		ug/L			03/26/25 12:36	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			03/26/25 12:36	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			03/26/25 12:36	1
Dibromomethane	ND		0.10		ug/L			03/26/25 12:36	1
Dichlorodifluoromethane	ND		0.10		ug/L			03/26/25 12:36	1
Ethylbenzene	ND		0.10		ug/L			03/26/25 12:36	1
Hexachlorobutadiene	ND		0.10		ug/L			03/26/25 12:36	1
Isopropylbenzene	ND		0.10		ug/L			03/26/25 12:36	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			03/26/25 12:36	1
Methylene Chloride	ND		0.30		ug/L			03/26/25 12:36	1
n-Butylbenzene	ND		0.30		ug/L			03/26/25 12:36	1
N-Propylbenzene	ND		0.10		ug/L			03/26/25 12:36	1
Naphthalene	ND		0.20		ug/L			03/26/25 12:36	1
sec-Butylbenzene	ND		0.10		ug/L			03/26/25 12:36	1
Styrene	ND		0.10		ug/L			03/26/25 12:36	1
tert-Butylbenzene	ND		0.10		ug/L			03/26/25 12:36	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			03/26/25 12:36	1
Toluene	ND		0.10		ug/L			03/26/25 12:36	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			03/26/25 12:36	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			03/26/25 12:36	1
Trichloroethene (TCE)	ND		0.10		ug/L			03/26/25 12:36	1
Trichlorofluoromethane	ND		0.10		ug/L			03/26/25 12:36	1
Vinyl chloride	ND		0.10		ug/L			03/26/25 12:36	1
Xylenes, Total	ND		0.15		ug/L			03/26/25 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*		*03/26/25 12:36*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/26/25 12:36*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*03/26/25 12:36*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*03/26/25 12:36*	*1*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-21407-1

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

Lab Sample ID: LCS 885-23091/3
Matrix: Air
Analysis Batch: 23091

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			20.0	18.6		ug/L		93	70 - 130		
Benzene			20.0	20.8		ug/L		104	70 - 130		
Chlorobenzene			20.0	20.5		ug/L		102	70 - 130		
Toluene			20.0	20.1		ug/L		100	70 - 130		
Trichloroethene (TCE)			20.0	18.0		ug/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-21407-1

GC/MS VOA

Analysis Batch: 23091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21407-1	Influent 031225	Total/NA	Air	8260B	
MB 885-23091/4	Method Blank	Total/NA	Air	8260B	
LCS 885-23091/3	Lab Control Sample	Total/NA	Air	8260B	

Analysis Batch: 23097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-21407-1	Influent 031225	Total/NA	Air	8015M/D	
MB 885-23097/5	Method Blank	Total/NA	Air	8015M/D	
LCS 885-23097/4	Lab Control Sample	Total/NA	Air	8015M/D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-21407-1

Client Sample ID: Influent 031225

Date Collected: 03/12/25 13:00
Date Received: 03/13/25 07:00

Lab Sample ID: 885-21407-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	23097	CM	EET ALB	03/26/25 13:51
Total/NA	Analysis	8260B		50	23091	CM	EET ALB	03/26/25 13:51

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: LC Kelly #1E

Job ID: 885-21407-1

Laboratory: Eurofins Albuquerque

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
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: LC Kelly #1E

Job ID: 885-21407-1

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	02-26-26

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
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: LC Kelly #1E

Job ID: 885-21407-1

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

March 17, 2025

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

Work Order: B25031011 Quote ID: B15626

Project Name: LC Kelly #1E - 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 3/14/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25031011-001	Influent 031225 (885-21407-1)	03/12/25 13:00	03/14/25	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: LC Kelly #1E - 88501698
Lab ID: B25031011-001
Client Sample ID: Influent 031225 (885-21407-1)

Report Date: 03/17/25
Collection Date: 03/12/25 13:00
DateReceived: 03/14/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	21.22	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Nitrogen	78.06	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Carbon Dioxide	0.70	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Hexanes plus	0.02	Mol %		0.01		GPA 2261-13	03/17/25 10:53 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	03/17/25 10:53 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	03/17/25 10:53 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	03/17/25 10:53 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	03/17/25 10:53 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	03/17/25 10:53 / jrj
Hexanes plus	0.008	gpm		0.001		GPA 2261-13	03/17/25 10:53 / jrj
GPM Total	0.008	gpm		0.001		GPA 2261-13	03/17/25 10:53 / jrj
GPM Pentanes plus	0.008	gpm		0.001		GPA 2261-13	03/17/25 10:53 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	1			1		GPA 2261-13	03/17/25 10:53 / jrj
Net BTU per cu ft @ std cond. (LHV)	1			1		GPA 2261-13	03/17/25 10:53 / jrj
Pseudo-critical Pressure, psia	547			1		GPA 2261-13	03/17/25 10:53 / jrj
Pseudo-critical Temperature, deg R	241			1		GPA 2261-13	03/17/25 10:53 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	03/17/25 10:53 / jrj
Air, %	96.95			0.01		GPA 2261-13	03/17/25 10:53 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	03/17/25 10:53 / 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: B25031011 **Report Date:** 03/17/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261-13**										Batch: R438156
Lab ID: **B25031011-001ADUP**	12	Sample Duplicate				Run: GC7890_250317A				03/17/25 11:44
Oxygen		21.4	Mol %	0.01				0.6	20	
Nitrogen		77.9	Mol %	0.01				0.2	20	
Carbon Dioxide		0.70	Mol %	0.01				0.0	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		0.02	Mol %	0.01				0.0	20	
Lab ID: **LCS031725**	11	Laboratory Control Sample				Run: GC7890_250317A				03/17/25 13:31
Oxygen		0.59	Mol %	0.01	120	70	130			
Nitrogen		5.97	Mol %	0.01	101	70	130			
Carbon Dioxide		1.04	Mol %	0.01	104	70	130			
Methane		76.4	Mol %	0.01	100	70	130			
Ethane		6.14	Mol %	0.01	101	70	130			
Propane		5.03	Mol %	0.01	101	70	130			
Isobutane		1.67	Mol %	0.01	84	70	130			
n-Butane		2.00	Mol %	0.01	100	70	130			
Isopentane		0.49	Mol %	0.01	98	70	130			
n-Pentane		0.50	Mol %	0.01	100	70	130			
Hexanes plus		0.20	Mol %	0.01	97	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 B25031011

Login completed by: Lyndsi E. LeProwse
Date Received: 3/14/2025
Reviewed by: lcadreau
Received by: LMB
Reviewed Date: 3/17/2025
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:	10.2°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

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Garcia, Michelle	Carrier Tracking No(s): N/A	COC No: 885-4177.1
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 #: 885-21407-1
Address: 1120 South 27th Street, ,	Due Date Requested: 3/20/2025			Preservation Codes: -
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: LC Kelly #1E	Project #: 88501698			
Site: N/A	SSOW#: N/A			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:						
Influent 031225 (885-21407-1)	3/12/25	13:00 Mountain	G	Air			X	1	See Attached Instructions
									B250310 11

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:	Company	Received by:	Date/Time:	Company
1		3/13/25 1400				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	3.14.25 1100	ELI

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

Ver: 10/10/2024

ICOC No:
885-4177

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

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: LC Kelly #1E
Project #:
Project Manager: Stuart Hyde
Sampler: Aaron L
On Ice: ☑ Yes ☒ No 4oog
# of Coolers: 1
Cooler Temp (including CF): 7.9-0.1=7.8 (°C)

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

885-21407 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Fixed Gas CO_2 and O_2
3/12/25	1300	Air	Influent 031225	2- Tedlar				X						X			X

Analysis Request

Date	Time	Relinquished by	Received by	Via	Date	Time
3/12/25	1615				3/12/25	1615
3/12/25	1730			courier	3/13/25	7:00

Remarks:
cc: shyde@ensolum.com, 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: 885-21407-1

Login Number: 21407 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499
Generated 4/8/2025 4:26:44 PM

JOB DESCRIPTION

LC Kelly #1E

JOB NUMBER

885-22240-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Laboratory Job ID: 885-22240-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

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: LC Kelly #1E

Job ID: 885-22240-1

Job ID: 885-22240-1 Eurofins Albuquerque

Job Narrative
885-22240-1

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 3/28/2025 6:40 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

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
Method 8260B: Surrogate Toluene-d8 recovery for the following samples were outside control limits: Influent 032625 (885-22240-1) and (885-22240-A-1 DU). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

Client Sample ID: Influent 032625

Lab Sample ID: 885-22240-1
Matrix: Air
Date Collected: 03/26/25 13:40
Date Received: 03/28/25 06:40
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]	**2000**		25		ug/L			04/04/25 15:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*52 - 172*		*04/04/25 15:50*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/04/25 15:50	5
1,1,1-Trichloroethane	ND		0.50		ug/L			04/04/25 15:50	5
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/04/25 15:50	5
1,1,2-Trichloroethane	ND		0.50		ug/L			04/04/25 15:50	5
1,1-Dichloroethane	ND		0.50		ug/L			04/04/25 15:50	5
1,1-Dichloroethene	ND		0.50		ug/L			04/04/25 15:50	5
1,1-Dichloropropene	ND		0.50		ug/L			04/04/25 15:50	5
1,2,3-Trichlorobenzene	ND		0.50		ug/L			04/04/25 15:50	5
1,2,3-Trichloropropane	ND		1.0		ug/L			04/04/25 15:50	5
1,2,4-Trichlorobenzene	ND		0.50		ug/L			04/04/25 15:50	5
1,2,4-Trimethylbenzene	**1.3**		0.50		ug/L			04/04/25 15:50	5
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			04/04/25 15:50	5
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			04/04/25 15:50	5
1,2-Dichlorobenzene	ND		0.50		ug/L			04/04/25 15:50	5
1,2-Dichloroethane (EDC)	ND		0.50		ug/L			04/04/25 15:50	5
1,2-Dichloropropane	ND		0.50		ug/L			04/04/25 15:50	5
1,3,5-Trimethylbenzene	**1.8**		0.50		ug/L			04/04/25 15:50	5
1,3-Dichlorobenzene	ND		0.50		ug/L			04/04/25 15:50	5
1,3-Dichloropropane	ND		0.50		ug/L			04/04/25 15:50	5
1,4-Dichlorobenzene	ND		0.50		ug/L			04/04/25 15:50	5
1-Methylnaphthalene	ND		2.0		ug/L			04/04/25 15:50	5
2,2-Dichloropropane	ND		1.0		ug/L			04/04/25 15:50	5
2-Butanone	ND		5.0		ug/L			04/04/25 15:50	5
2-Chlorotoluene	ND		0.50		ug/L			04/04/25 15:50	5
2-Hexanone	ND		5.0		ug/L			04/04/25 15:50	5
2-Methylnaphthalene	ND		2.0		ug/L			04/04/25 15:50	5
4-Chlorotoluene	ND		0.50		ug/L			04/04/25 15:50	5
4-Isopropyltoluene	ND		0.50		ug/L			04/04/25 15:50	5
4-Methyl-2-pentanone	ND		5.0		ug/L			04/04/25 15:50	5
Acetone	ND		5.0		ug/L			04/04/25 15:50	5
Benzene	**3.7**		0.50		ug/L			04/04/25 15:50	5
Bromobenzene	ND		0.50		ug/L			04/04/25 15:50	5
Bromodichloromethane	ND		0.50		ug/L			04/04/25 15:50	5
Dibromochloromethane	ND		0.50		ug/L			04/04/25 15:50	5
Bromoform	ND		0.50		ug/L			04/04/25 15:50	5
Bromomethane	ND		1.5		ug/L			04/04/25 15:50	5
Carbon disulfide	ND		5.0		ug/L			04/04/25 15:50	5
Carbon tetrachloride	ND		0.50		ug/L			04/04/25 15:50	5
Chlorobenzene	ND		0.50		ug/L			04/04/25 15:50	5
Chloroethane	ND		1.0		ug/L			04/04/25 15:50	5
Chloroform	ND		0.50		ug/L			04/04/25 15:50	5

Client Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

Client Sample ID: Influent 032625

Lab Sample ID: 885-22240-1
Matrix: Air
Date Collected: 03/26/25 13:40
Date Received: 03/28/25 06:40
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		1.5		ug/L			04/04/25 15:50	5
cis-1,2-Dichloroethene	ND		0.50		ug/L			04/04/25 15:50	5
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/04/25 15:50	5
Dibromomethane	ND		0.50		ug/L			04/04/25 15:50	5
Dichlorodifluoromethane	ND		0.50		ug/L			04/04/25 15:50	5
Ethylbenzene	**4.8**		0.50		ug/L			04/04/25 15:50	5
Hexachlorobutadiene	ND		0.50		ug/L			04/04/25 15:50	5
Isopropylbenzene	**0.70**		0.50		ug/L			04/04/25 15:50	5
Methyl-tert-butyl Ether (MTBE)	ND		0.50		ug/L			04/04/25 15:50	5
Methylene Chloride	ND		1.5		ug/L			04/04/25 15:50	5
n-Butylbenzene	ND		1.5		ug/L			04/04/25 15:50	5
N-Propylbenzene	**0.50**		0.50		ug/L			04/04/25 15:50	5
Naphthalene	ND		1.0		ug/L			04/04/25 15:50	5
sec-Butylbenzene	ND		0.50		ug/L			04/04/25 15:50	5
Styrene	ND		0.50		ug/L			04/04/25 15:50	5
tert-Butylbenzene	ND		0.50		ug/L			04/04/25 15:50	5
Tetrachloroethene (PCE)	ND		0.50		ug/L			04/04/25 15:50	5
Toluene	**28**		0.50		ug/L			04/04/25 15:50	5
trans-1,2-Dichloroethene	ND		0.50		ug/L			04/04/25 15:50	5
trans-1,3-Dichloropropene	ND		0.50		ug/L			04/04/25 15:50	5
Trichloroethene (TCE)	ND		0.50		ug/L			04/04/25 15:50	5
Trichlorofluoromethane	ND		0.50		ug/L			04/04/25 15:50	5
Vinyl chloride	ND		0.50		ug/L			04/04/25 15:50	5
Xylenes, Total	**56**		0.75		ug/L			04/04/25 15:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/04/25 15:50*	*5*
Toluene-d8 (Surr)	*141*	*S1+*	*70 - 130*		*04/04/25 15:50*	*5*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*04/04/25 15:50*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/04/25 15:50*	*5*

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

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

Lab Sample ID: MB 885-23678/4
Matrix: Air
Analysis Batch: 23678

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			04/04/25 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*52 - 172*		*04/04/25 10:28*	*1*

Lab Sample ID: LCS 885-23678/3
Matrix: Air
Analysis Batch: 23678

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	529		ug/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*52 - 172*

Lab Sample ID: 885-22240-1 DU
Matrix: Air
Analysis Batch: 23678

Client Sample ID: Influent 032625
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	2000			2100		ug/L				6	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*52 - 172*

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

Lab Sample ID: MB 885-23672/5
Matrix: Air
Analysis Batch: 23672

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			04/04/25 12:06	1
1,1,1-Trichloroethane	ND		0.10		ug/L			04/04/25 12:06	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/04/25 12:06	1
1,1,2-Trichloroethane	ND		0.10		ug/L			04/04/25 12:06	1
1,1-Dichloroethane	ND		0.10		ug/L			04/04/25 12:06	1
1,1-Dichloroethene	ND		0.10		ug/L			04/04/25 12:06	1
1,1-Dichloropropene	ND		0.10		ug/L			04/04/25 12:06	1
1,2,3-Trichlorobenzene	ND		0.10		ug/L			04/04/25 12:06	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/04/25 12:06	1
1,2,4-Trichlorobenzene	ND		0.10		ug/L			04/04/25 12:06	1
1,2,4-Trimethylbenzene	ND		0.10		ug/L			04/04/25 12:06	1
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L			04/04/25 12:06	1
1,2-Dibromoethane (EDB)	ND		0.10		ug/L			04/04/25 12:06	1
1,2-Dichlorobenzene	ND		0.10		ug/L			04/04/25 12:06	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

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

Lab Sample ID: MB 885-23672/5
Matrix: Air
Analysis Batch: 23672

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane (EDC)	ND		0.10		ug/L			04/04/25 12:06	1
1,2-Dichloropropane	ND		0.10		ug/L			04/04/25 12:06	1
1,3,5-Trimethylbenzene	ND		0.10		ug/L			04/04/25 12:06	1
1,3-Dichlorobenzene	ND		0.10		ug/L			04/04/25 12:06	1
1,3-Dichloropropane	ND		0.10		ug/L			04/04/25 12:06	1
1,4-Dichlorobenzene	ND		0.10		ug/L			04/04/25 12:06	1
1-Methylnaphthalene	ND		0.40		ug/L			04/04/25 12:06	1
2,2-Dichloropropane	ND		0.20		ug/L			04/04/25 12:06	1
2-Butanone	ND		1.0		ug/L			04/04/25 12:06	1
2-Chlorotoluene	ND		0.10		ug/L			04/04/25 12:06	1
2-Hexanone	ND		1.0		ug/L			04/04/25 12:06	1
2-Methylnaphthalene	ND		0.40		ug/L			04/04/25 12:06	1
4-Chlorotoluene	ND		0.10		ug/L			04/04/25 12:06	1
4-Isopropyltoluene	ND		0.10		ug/L			04/04/25 12:06	1
4-Methyl-2-pentanone	ND		1.0		ug/L			04/04/25 12:06	1
Acetone	ND		1.0		ug/L			04/04/25 12:06	1
Benzene	ND		0.10		ug/L			04/04/25 12:06	1
Bromobenzene	ND		0.10		ug/L			04/04/25 12:06	1
Bromodichloromethane	ND		0.10		ug/L			04/04/25 12:06	1
Dibromochloromethane	ND		0.10		ug/L			04/04/25 12:06	1
Bromoform	ND		0.10		ug/L			04/04/25 12:06	1
Bromomethane	ND		0.30		ug/L			04/04/25 12:06	1
Carbon disulfide	ND		1.0		ug/L			04/04/25 12:06	1
Carbon tetrachloride	ND		0.10		ug/L			04/04/25 12:06	1
Chlorobenzene	ND		0.10		ug/L			04/04/25 12:06	1
Chloroethane	ND		0.20		ug/L			04/04/25 12:06	1
Chloroform	ND		0.10		ug/L			04/04/25 12:06	1
Chloromethane	ND		0.30		ug/L			04/04/25 12:06	1
cis-1,2-Dichloroethene	ND		0.10		ug/L			04/04/25 12:06	1
cis-1,3-Dichloropropene	ND		0.10		ug/L			04/04/25 12:06	1
Dibromomethane	ND		0.10		ug/L			04/04/25 12:06	1
Dichlorodifluoromethane	ND		0.10		ug/L			04/04/25 12:06	1
Ethylbenzene	ND		0.10		ug/L			04/04/25 12:06	1
Hexachlorobutadiene	ND		0.10		ug/L			04/04/25 12:06	1
Isopropylbenzene	ND		0.10		ug/L			04/04/25 12:06	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10		ug/L			04/04/25 12:06	1
Methylene Chloride	ND		0.30		ug/L			04/04/25 12:06	1
n-Butylbenzene	ND		0.30		ug/L			04/04/25 12:06	1
N-Propylbenzene	ND		0.10		ug/L			04/04/25 12:06	1
Naphthalene	ND		0.20		ug/L			04/04/25 12:06	1
sec-Butylbenzene	ND		0.10		ug/L			04/04/25 12:06	1
Styrene	ND		0.10		ug/L			04/04/25 12:06	1
tert-Butylbenzene	ND		0.10		ug/L			04/04/25 12:06	1
Tetrachloroethene (PCE)	ND		0.10		ug/L			04/04/25 12:06	1
Toluene	ND		0.10		ug/L			04/04/25 12:06	1
trans-1,2-Dichloroethene	ND		0.10		ug/L			04/04/25 12:06	1
trans-1,3-Dichloropropene	ND		0.10		ug/L			04/04/25 12:06	1
Trichloroethene (TCE)	ND		0.10		ug/L			04/04/25 12:06	1
Trichlorofluoromethane	ND		0.10		ug/L			04/04/25 12:06	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

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

Lab Sample ID: MB 885-23672/5
Matrix: Air
Analysis Batch: 23672

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.10		ug/L			04/04/25 12:06	1
Xylenes, Total	ND		0.15		ug/L			04/04/25 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*04/04/25 12:06*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*04/04/25 12:06*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*04/04/25 12:06*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*04/04/25 12:06*	*1*

Lab Sample ID: LCS 885-23672/4
Matrix: Air
Analysis Batch: 23672

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			20.0	19.1		ug/L		96	70 - 130		
Benzene			20.0	20.3		ug/L		101	70 - 130		
Chlorobenzene			20.0	22.4		ug/L		112	70 - 130		
Toluene			20.0	22.0		ug/L		110	70 - 130		
Trichloroethene (TCE)			20.0	17.9		ug/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*

Lab Sample ID: 885-22240-1 DU
Matrix: Air
Analysis Batch: 23672

Client Sample ID: Influent 032625
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,1-Trichloroethane	ND			ND		ug/L				NC	20
1,1,2,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,2-Trichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethene	ND			ND		ug/L				NC	20
1,1-Dichloropropene	ND			ND		ug/L				NC	20
1,2,3-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2,4-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,4-Trimethylbenzene	1.3			1.35		ug/L				3	20
1,2-Dibromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-Dibromoethane (EDB)	ND			ND		ug/L				NC	20
1,2-Dichlorobenzene	ND			ND		ug/L				NC	20
1,2-Dichloroethane (EDC)	ND			ND		ug/L				NC	20
1,2-Dichloropropane	ND			ND		ug/L				NC	20
1,3,5-Trimethylbenzene	1.8			1.83		ug/L				0.8	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

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

Lab Sample ID: 885-22240-1 DU
Matrix: Air
Analysis Batch: 23672

Client Sample ID: Influent 032625
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,3-Dichlorobenzene	ND			ND		ug/L				NC	20
1,3-Dichloropropane	ND			ND		ug/L				NC	20
1,4-Dichlorobenzene	ND			ND		ug/L				NC	20
1-Methylnaphthalene	ND			ND		ug/L				NC	20
2,2-Dichloropropane	ND			ND		ug/L				NC	20
2-Butanone	ND			ND		ug/L				NC	20
2-Chlorotoluene	ND			ND		ug/L				NC	20
2-Hexanone	ND			ND		ug/L				NC	20
2-Methylnaphthalene	ND			ND		ug/L				NC	20
4-Chlorotoluene	ND			ND		ug/L				NC	20
4-Isopropyltoluene	ND			ND		ug/L				NC	20
4-Methyl-2-pentanone	ND			ND		ug/L				NC	20
Acetone	ND			ND		ug/L				NC	20
Benzene	3.7			3.69		ug/L				0.9	20
Bromobenzene	ND			ND		ug/L				NC	20
Bromodichloromethane	ND			ND		ug/L				NC	20
Dibromochloromethane	ND			ND		ug/L				NC	20
Bromoform	ND			ND		ug/L				NC	20
Bromomethane	ND			ND		ug/L				NC	20
Carbon disulfide	ND			ND		ug/L				NC	20
Carbon tetrachloride	ND			ND		ug/L				NC	20
Chlorobenzene	ND			ND		ug/L				NC	20
Chloroethane	ND			ND		ug/L				NC	20
Chloroform	ND			ND		ug/L				NC	20
Chloromethane	ND			ND		ug/L				NC	20
cis-1,2-Dichloroethene	ND			ND		ug/L				NC	20
cis-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Dibromomethane	ND			ND		ug/L				NC	20
Dichlorodifluoromethane	ND			ND		ug/L				NC	20
Ethylbenzene	4.8			4.80		ug/L				0.2	20
Hexachlorobutadiene	ND			ND		ug/L				NC	20
Isopropylbenzene	0.70			0.700		ug/L				0	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Methylene Chloride	ND			ND		ug/L				NC	20
n-Butylbenzene	ND			ND		ug/L				NC	20
N-Propylbenzene	0.50			0.503		ug/L				1	20
Naphthalene	ND			ND		ug/L				NC	20
sec-Butylbenzene	ND			ND		ug/L				NC	20
Styrene	ND			ND		ug/L				NC	20
tert-Butylbenzene	ND			ND		ug/L				NC	20
Tetrachloroethene (PCE)	ND			ND		ug/L				NC	20
Toluene	28			30.3		ug/L				8	20
trans-1,2-Dichloroethene	ND			ND		ug/L				NC	20
trans-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Trichloroethene (TCE)	ND			ND		ug/L				NC	20
Trichlorofluoromethane	ND			ND		ug/L				NC	20
Vinyl chloride	ND			ND		ug/L				NC	20
Xylenes, Total	56			55.9		ug/L				0	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

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

Lab Sample ID: 885-22240-1 DU
Matrix: Air
Analysis Batch: 23672

Client Sample ID: Influent 032625
Prep Type: Total/NA

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	148	S1+	70 - 130
4-Bromofluorobenzene (Surr)	118		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130

QC Association Summary

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

GC/MS VOA

Analysis Batch: 23672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22240-1	Influent 032625	Total/NA	Air	8260B	
MB 885-23672/5	Method Blank	Total/NA	Air	8260B	
LCS 885-23672/4	Lab Control Sample	Total/NA	Air	8260B	
885-22240-1 DU	Influent 032625	Total/NA	Air	8260B	

Analysis Batch: 23678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22240-1	Influent 032625	Total/NA	Air	8015M/D	
MB 885-23678/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-23678/3	Lab Control Sample	Total/NA	Air	8015M/D	
885-22240-1 DU	Influent 032625	Total/NA	Air	8015M/D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: LC Kelly #1E

Job ID: 885-22240-1

Client Sample ID: Influent 032625

Date Collected: 03/26/25 13:40
Date Received: 03/28/25 06:40

Lab Sample ID: 885-22240-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		5	23678	CM	EET ALB	04/04/25 15:50
Total/NA	Analysis	8260B		5	23672	CM	EET ALB	04/04/25 15:50

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: LC Kelly #1E

Job ID: 885-22240-1

Laboratory: Eurofins Albuquerque

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
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: LC Kelly #1E

Job ID: 885-22240-1

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	02-26-26

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
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: LC Kelly #1E

Job ID: 885-22240-1

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

April 04, 2025

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

Work Order: B25040046 Quote ID: B15626

Project Name: LC Kelly #1E, 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 4/1/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25040046-001	Influent 032625 (885-22240-1)	03/26/25 13:40	04/01/25	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: LC Kelly #1E, 88501698
Lab ID: B25040046-001
Client Sample ID: Influent 032625 (885-22240-1)

Report Date: 04/04/25
Collection Date: 03/26/25 13:40
DateReceived: 04/01/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	21.36	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Nitrogen	78.05	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Carbon Dioxide	0.56	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Hexanes plus	0.03	Mol %		0.01		GPA 2261-13	04/02/25 08:50 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	04/02/25 08:50 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	04/02/25 08:50 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	04/02/25 08:50 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	04/02/25 08:50 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	04/02/25 08:50 / jrj
Hexanes plus	0.013	gpm		0.001		GPA 2261-13	04/02/25 08:50 / jrj
GPM Total	0.013	gpm		0.001		GPA 2261-13	04/02/25 08:50 / jrj
GPM Pentanes plus	0.013	gpm		0.001		GPA 2261-13	04/02/25 08:50 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	1			1		GPA 2261-13	04/02/25 08:50 / jrj
Net BTU per cu ft @ std cond. (LHV)	1			1		GPA 2261-13	04/02/25 08:50 / jrj
Pseudo-critical Pressure, psia	547			1		GPA 2261-13	04/02/25 08:50 / jrj
Pseudo-critical Temperature, deg R	240			1		GPA 2261-13	04/02/25 08:50 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	04/02/25 08:50 / jrj
Air, %	97.58			0.01		GPA 2261-13	04/02/25 08:50 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	04/02/25 08:50 / 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: B25040046 **Report Date:** 04/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261-13**										Batch: R439068
Lab ID: **B25040046-001ADUP**	12	Sample Duplicate				Run: GC7890_250402A				04/02/25 09:39
Oxygen		21.4	Mol %	0.01				0.1	20	
Nitrogen		78.1	Mol %	0.01				0	20	
Carbon Dioxide		0.56	Mol %	0.01				0.0	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: **LCS040225**	11	Laboratory Control Sample				Run: GC7890_250402A				04/02/25 14:15
Oxygen		0.58	Mol %	0.01	118	70	130			
Nitrogen		5.93	Mol %	0.01	101	70	130			
Carbon Dioxide		1.00	Mol %	0.01	100	70	130			
Methane		76.1	Mol %	0.01	100	70	130			
Ethane		6.14	Mol %	0.01	101	70	130			
Propane		5.04	Mol %	0.01	101	70	130			
Isobutane		1.97	Mol %	0.01	99	70	130			
n-Butane		2.01	Mol %	0.01	101	70	130			
Isopentane		0.52	Mol %	0.01	104	70	130			
n-Pentane		0.52	Mol %	0.01	104	70	130			
Hexanes plus		0.21	Mol %	0.01	102	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Work Order Receipt Checklist

Eurofins TestAmerica - Albuquerque B25040046

Login completed by: Kyelie L. Pflock
Date Received: 4/1/2025
Reviewed by: lcadreau
Received by: KLP
Reviewed Date: 4/1/2025
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:	13.4°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

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Garcia, Michelle	Carrier Tracking No(s): N/A	COC No: 885-4385.1
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 #: 885-22240-1
Address: 1120 South 27th Street, ,	Due Date Requested: 4/4/2025			Preservation Codes: -
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: LC Kelly #1E	Project #: 88501698			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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:						
Influent 032625 (885-22240-1)	3/26/25	13:40 Mountain	G	Air			X	1	See Attached Instructions 885040046

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: 3/31/25 1500	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: 04-01-25 1115	Company ELI

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

Ver: 10/10/2024

ICOC No:
885-4385

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
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: LC Kelly #1E
Project #:
Project Manager: Stuart Hyde
Sampler: AL
On Ice: ☐ Yes ☒ No
# of Coolers: 1
Cooler Temp(including CF): N/A (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-22240 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) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Fixed Gas CO_2+O_2
3/26/25	1340	Air	Influent 032625	2-Tedlar				X						X			X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/27/25	1350					
3/27/25	1720			courier	3/28/25	6:40

Remarks:
CC: shyde
dbacas@ensolum.com
bherb

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-22240-1

Login Number: 22240 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

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

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 452128
	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