

By NVelez at 1:17 pm, Apr 17, 2025

#### ENSOLUM

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

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 Sullivan GC D #1E San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident Number: NCS1518952648

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 Sullivan GC D #1E natural gas production well (Site), located in Unit F of Section 26, Township 29 North, Range 11 West in San Juan County, New Mexico (Figure 1). Specifically, this report summarizes Site activities performed in January, February, and March of 2025 to the New Mexico Oil Conservation Division (NMOCD).

#### **SVE SYSTEM SPECIFICATIONS**

The original SVE system was installed at the Site in April 2016 by XTO Energy, the previous Site owner, in response to a release originating from a broken fiberglass line used to transfer natural gas condensate. The original SVE system was purchased from Geotech Environmental Equipment, Inc. (Geotech) and operated successfully until the summer of 2018. Due to a broken SVE blower motor, the Site's SVE system did not operate between 2018 and March of 2022; however, a rental SVE system was brought onto the Site and began operation on December 2, 2021. The blower motor from the original Geotech system was replaced on March 21, 2022, and the Geotech SVE system was put back into service.

The current Geotech SVE system is configured with vacuum applied to wells PR-1, MW-01, MW-02, MW-05, and MW-06 (shown on Figure 2). The SVE system consists of a 3 horsepower Rotron Model EN656 regenerative blower capable of producing 212 standard cubic feet per minute (scfm) of flow and 73 inches of water column (IWC) vacuum. The layout of the SVE system and piping is shown on Figure 2.

#### **FIRST QUARTER 2025 ACTIVITIES**

During the first quarter of 2025, Ensolum and Hilcorp personnel performed bi-weekly operation and maintenance (O&M) visits to verify the system was operating as designed and to perform any required maintenance. Field notes taken during O&M visits are presented in Appendix A. During the first quarter of 2025, all SVE wells (PR-1, MW-01, MW-02, MW-05, and MW-06) were operated in order to induce air flow through impacted soil within the source area. During a Site visit on December 2, 2024, it was determined the hour meter was no longer functioning properly and was in need of replacement. A replacement hour meter was installed on December 3, 2024, but was installed in a different location than

Hilcorp Energy Company First Quarter 2025 – SVE System Update Sullivan GC D#1E

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the broken meter. The broken meter was left in place temporarily and a photo of the old meter was inadvertently collected on December 16, 2024 and January 3, 2025, prior to discovery of the error while drafting the *Fourth Quarter 2024 – SVE System Update* report. Following identification of the error, photo documentation of the new hour meter began on January 20, 2025, and continued throughout the remainder of first quarter of 2025. An accurate runtime percentage cannot be calculated between December 16, 2024 and January 20, 2025. No alarms were noted on the system telemetry throughout the quarter and the system was in operation during Site visits conducted twice per month during the first quarter of 2025. Based on this information, we believe the system was fully operational between December 16, 2024 and January 20, 2025, and runtime was likely greater than 90%. Between January 20 and March 31, 2025, the SVE system operated for 1,534 hours, with a runtime efficiency of 100 percent (%). Appendix B presents photographs of the runtime meter for calculating the runtime efficiency. Table 1 presents the SVE system operational hours and percent runtime based on the field notes collected during the quarter.

A first quarter 2025 vapor sample was collected on February 8, 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 vapor sample was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar<sup>®</sup> bags and submitted to Eurofins Environment Testing (Formerly Hall Environmental Analysis Laboratory), located in Albuquerque, New Mexico, for analysis of total volatile petroleum hydrocarbons (TVPH, also referred to as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, volatile organic compounds (VOCs) following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processor Association (GPA) Method 2261. Table 2 presents a summary of analytical data collected during this sampling event and previous sampling events, with the full laboratory analytical report included in Appendix C.

Vapor sample data and measured stack flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 3). Based on these estimates, 92,283 pounds (46 tons) of TVPH have been removed by the system to date.

#### RECOMMENDATIONS

Bi-weekly O&M visits 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, LG (licensed in WA & TX) 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

Hilcorp Energy Company First Quarter 2025 – SVE System Update Sullivan GC D#1E E ENSOLUM

#### Attachments:

Figure 1	Site Location
Figure 2	SVE System Layout
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Emission Analytical Results
Table 3	Soil Vapor Extraction System Mass Removal and Emissions
Appendix A	Field Notes
Appendix B	Project Photographs
Appendix C	Laboratory Analytical Reports

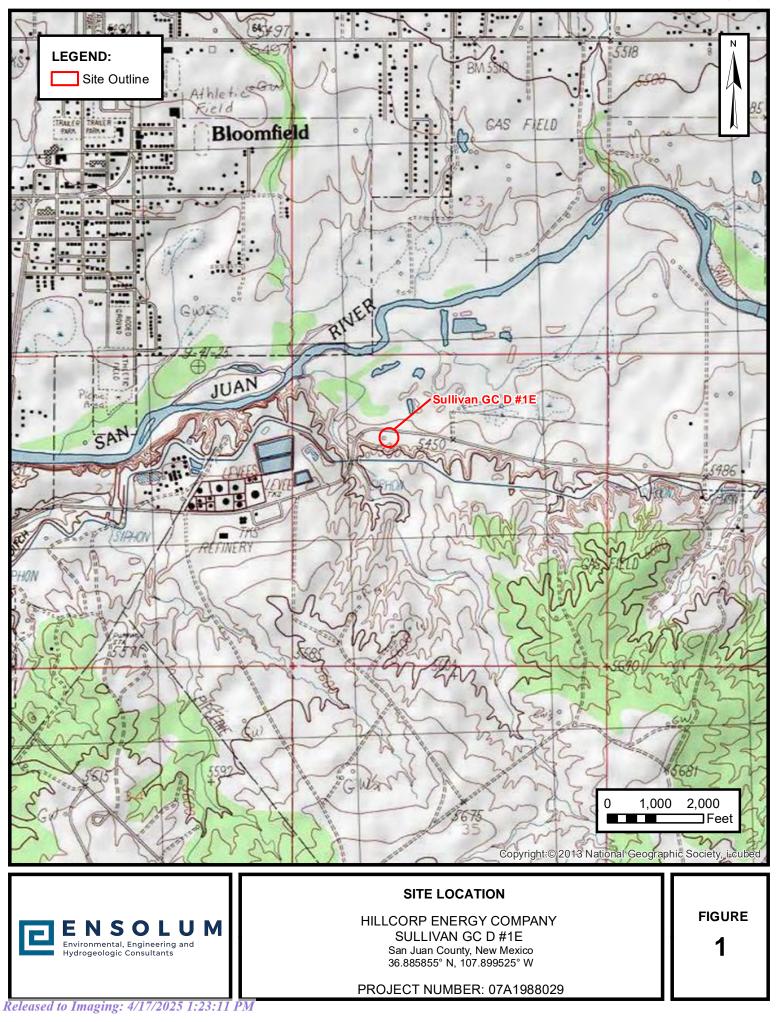
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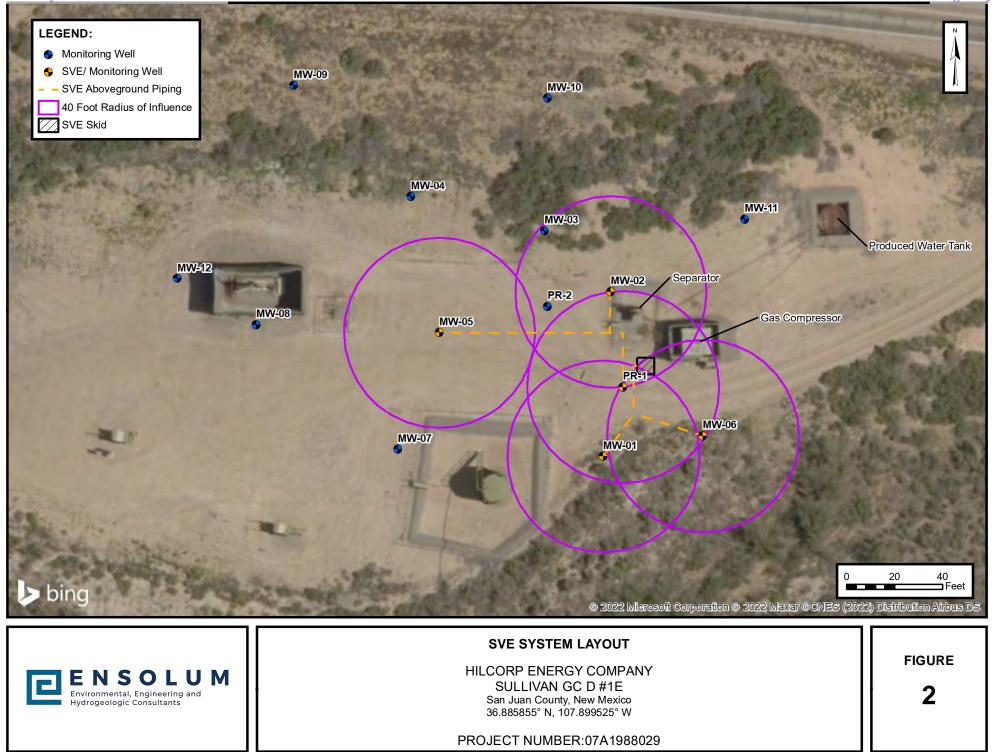
# Figures

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# Tables

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# TABLE 1SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONSSullivan GC D#1EHilcorp Energy CompanySan Juan County, New Mexico

#### Permanent Geotech SVE Skid Runtime Operation

Date	Total Operational Hours	Delta Hours	Days	% Runtime
12/16/2024 <sup>(1)</sup>	23,269			
1/20/2025 (2)	241			
3/25/2025	1,775	1,534	64	100%

(1) Hour meter found to be in need of replacement on 12/2/2024. A replacement was installed in a separate location on 12/3/2024 and photos of the old hour meter were taken on 12/16/2024 and 1/3/2025.

(2) New hour meter readings began on 1/20/2025.

### E N S O L U M

		SOIL VAPOR	Hil	TABLE 2         SYSTEM EMISSI         Sullivan GC D#1E         corp Energy Comp         uan County, New M	any	AL RESULTS		
Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH/GRO (µg/L)	Oxygen (%)	Carbon Dioxide (%)
4/18/2016		840	1,900	87	840	140,000		
4/20/2016	2,375	840	1,900	87	840	140,000		
4/29/2017	3,520	280	1,000	64	630	65,000		
8/11/2016	4,215	92	700	90	910	23,000		
1/24/2018	2,837	46	140	<5.0	410	21,000		
6/29/2018	3,000	63	210	<5.0	410	27,000		
12/2/2021	741	15	<5.0	<5.0	99	33,000		
3/16/2022	982	<0.10	<0.10	<0.10	1.1	64	19.40	1.23
6/17/2022	327	<0.10	<0.10	<0.10	0.25	10	21.54	0.29
9/22/2022	266	<0.10	<0.10	<0.10	<0.15	<5.0	20.57	1.00
12/10/2022	68	0.75	4.9	0.49	9.0	490	21.02	0.65
3/13/2023	69	0.81	4.4	0.30	5.7	300	21.15	0.51
6/23/2023	139	5.9	12	3.0	6.7	840	21.01	0.55
8/18/2023	76	2.4	2.9	<1.0	1.8	340	20.83	0.68
11/21/2023	186	2.8	18	1.7	18	480	20.94	0.51
3/4/2024	212	4.0	29.0	2.7	31	580	21.41	0.51
6/14/2024	142	4.4	4.1	<1.0	2.1	340	20.44	0.72
9/16/2024	55	5.8	24	1.3	13	510	21.32	0.48
11/18/2024	87	9.6	60	5.0	53	1,100	17.79	0.89
2/8/2025	29	6.1	6.3	<1.0	3.7	460	18.43	1.43

#### Notes:

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GRO: gasoline range hydrocarbons

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

--: not sampled

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

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TABLE 3	
SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS	
Sullivan GC D#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)
4/18/2016		840	1,900	87	840	140,000
4/20/2016	2,375	840	1,900	87	840	140,000
4/29/2017	3,520	280	1,000	64	630	65,000
8/11/2016	4,215	92	700	90	910	23,000
1/24/2018	2,837	46	140	5.0	410	21,000
6/29/2018	3,000	63	210	5.0	410	27,000
12/2/2021			Rental SVE S	ystem Startup		
12/2/2021	741	15	5.0	5.0	99	33,000
3/16/2022	982	0.10	0.10	0.10	1.1	64
3/21/2022		•	Permanent SVE	System Startup		
6/17/2022	327	0.10	0.10	0.10	0.25	10
9/22/2022	266	0.10	0.10	0.10	0.15	5.0
12/10/2022	68	0.75	4.9	0.49	9.0	490
3/13/2023	69	0.81	4.4	0.30	5.7	300
6/23/2023	139	5.9	12	3.0	6.7	840
8/18/2023	76	2.4	2.9	1.0	1.8	340
11/21/2023	186	2.8	18	1.7	18	480
3/4/2024	212	4.0	29.0	2.7	31	580
6/14/2024	142	4.4	4.1	1.0	2.1	340
9/16/2024	55	5.8	24	1.3	13	510
11/18/2024	87	9.6	60	5.0	53	1,100
2/8/2025	29	6.1	6.3	1.0	3.7	460
Average	1,017	111	301	18	214	22,726

Vapor Extraction Summary

Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (Ib/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
4/18/2016	90	0	0	0.28	0.64	0.029	0.28	47
4/20/2016	109	313,920	313,920	0.34	0.77	0.035	0.34	57
4/29/2017	90	1,480,320	1,166,400	0.19	0.49	0.025	0.25	35
8/11/2016	70	6,923,520	5,443,200	0.049	0.22	0.020	0.20	12
1/24/2018	60		-	0.015	0.094	0.011	0.15	4.9
6/29/2018	41	53,246,160	46,322,640	0.0084	0.027	0.001	0.063	3.7
12/2/2021				Rental SVE S	ystem Startup			
12/2/2021	49	53,246,160	0	0	0	0	0	0
3/16/2022	49	60,581,754	7,335,594	0.0014	0.00047	0.00047	0.0092	3.0
3/21/2022				Permanent SVE	System Startup			
6/17/2022	80	70,724,634	10,142,880	0.000030	0.000030	0.000030	0.0002	0.011
9/22/2022	68	80,221,650	9,497,016	0.000025	0.000025	0.000025	0.000051	0.0019
12/10/2022	80	89,341,170	9,119,520	0.00013	0.00075	0.000088	0.0014	0.074
3/13/2023	75	99,328,020	9,986,850	0.00022	0.0013	0.00011	0.0021	0.11
6/23/2023	76	110,408,820	11,080,800	0.00095	0.0023	0.00047	0.0018	0.16
8/18/2023	80	116,845,620	6,436,800	0.00124	0.0022	0.00060	0.0013	0.18
11/21/2023	75	127,065,120	10,219,500	0.00073	0.0029	0.00038	0.0028	0.12
3/4/2024	110	143,512,320	16,447,200	0.00140	0.0097	0.00091	0.0101	0.22
6/14/2024	110	157,953,120	14,440,800	0.00173	0.0068	0.00076	0.0068	0.19
9/16/2024	105	172,046,220	14,093,100	0.00200	0.0055	0.00045	0.0030	0.17
11/18/2024	105	181,590,720	9,544,500	0.00302	0.0165	0.00124	0.0130	0.32
2/8/2025	110	186,169,800	4,579,080	0.00323	0.0136	0.00123	0.0117	0.32
			Average	0.045	0.115	0.006	0.067	8.19

Mass Recovery

				Mass Recovery				
Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
4/18/2016	0	0	0.0	0.0	0.0	0.0	0.0	0.0
4/20/2016	48	48	16	37	1.7	16	2,740	1.4
4/29/2017	264	216	41	105	5.5	53	7,452	3.7
8/11/2016	1,560	1,296	63	288	26	261	14,929	7.5
1/24/2018								
6/29/2018	16,848	15,288	128	410	12	961	56,264	28
12/2/2021				Rental SVE S	ystem Startup			
12/2/2021	968	0	0.0	0.0	0.0	0.0	0.0	0.0
3/16/2022	3,463	2,495	3.5	1.2	1.2	23	7,559	3.8
3/21/2022				Permanent SVE	System Startup			
3/21/2022	0	0	0.0	0.0	0.0	0.0	0.0	0.0
6/17/2022	2,113	2,113	0.063	0.063	0.063	0.43	23	0.012
9/22/2022	4,441	2,328	0.059	0.059	0.059	0.12	4.4	0.0022
12/10/2022	6,341	1,900	0.24	1.4	0.17	2.6	141	0.070
3/13/2023	8,560	2,219	0.49	2.9	0.25	4.6	246	0.12
6/23/2023	10,990	2,430	2.3	5.7	1.1	4.3	394	0.20
8/18/2023	12,331	1,341	1.7	3.0	0.80	1.7	237	0.12
11/21/2023	14,602	2,271	1.7	6.7	0.86	6.3	261	0.13
3/4/2024	17,094	2,492	3.5	24.1	2.26	25.1	543	0.27
6/14/2024	19,282	2,188	3.8	14.9	1.67	14.9	414	0.21
9/16/2024	21,519	2,237	4.5	12.3	1.01	6.6	373	0.19
11/18/2024	23,034	1,515	4.6	25.0	1.87	19.6	479	0.24
2/8/2025 <sup>(1)</sup>	23,728	694	2.2	9.5	0.86	8.1	223	0.11
	Total Mass	Recovery to Date	277	948	57	1,410	92,283	46

Notes:

 Notes:
 PID: photoionization detector

 d: cubic feet
 PID: photoionization detector

 cfm: cubic feet per minute
 ppm: parts per million

 pgf:: micrograms per liter
 TVPH: total volatile pertoreum hydrocarbons

 b/hr: pounds per hour
 gray: laboratory reporting limit used for calculating emissions

 -: not sampled
 (1) Runtime hours estimated due to hour meter failure identified on 12/2/2024; Replacement meter readings began on 1/20/2025.

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# **APPENDIX A**

**Field Notes** 

Received by	<b>OCD</b> :	4/15/2025	9:13:23 AM	
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	ULLIVAN GC D#1E SVE SYSTEM (RENTAL UNIT) BIWEEKLY O&M FORM O&M PERSONNEL: B Sinclair	_
DATE: 1-3 TIME ONSITE:	O&M PERSONNEL: D J, ACIAIP TIME OFFSITE:	_
	SVE SYSTEM - MONTHLY O&M	
SVE ALARMS:	HIGH/LOW VACUUM	
(check if applicable)	KO TANK HIGH LEVEL HIGH EXHAUST TEMPERATURE	
Product Skimmer	SVE SYSTEM READING	TIME 1225
Hours (take photo) Volume in bbl	Blower Hours (take photo) 23270 Pre K/O Vacuum (IWC) 20	1660
Volume removed	Post K/O Vacuum (IWC) 24	
Volume removed to date	Total Flow (cfm)     /00       Zone 1/ Leg A Flow (cfm)	
	Inlet PID (ppm) 124.7	
	Exhaust Post GAC PID (ppm) 37.7	
	Liquid in K/O Sight Tube (Y/N) K/O Liquid Drained (gallons)	
HOUSEKEEPING Check	NO Elquid Dramed (ganons)	and the second
Inline Filter Clean		

# ZONES

Change in Well Operation:

Zone 1/ Log A

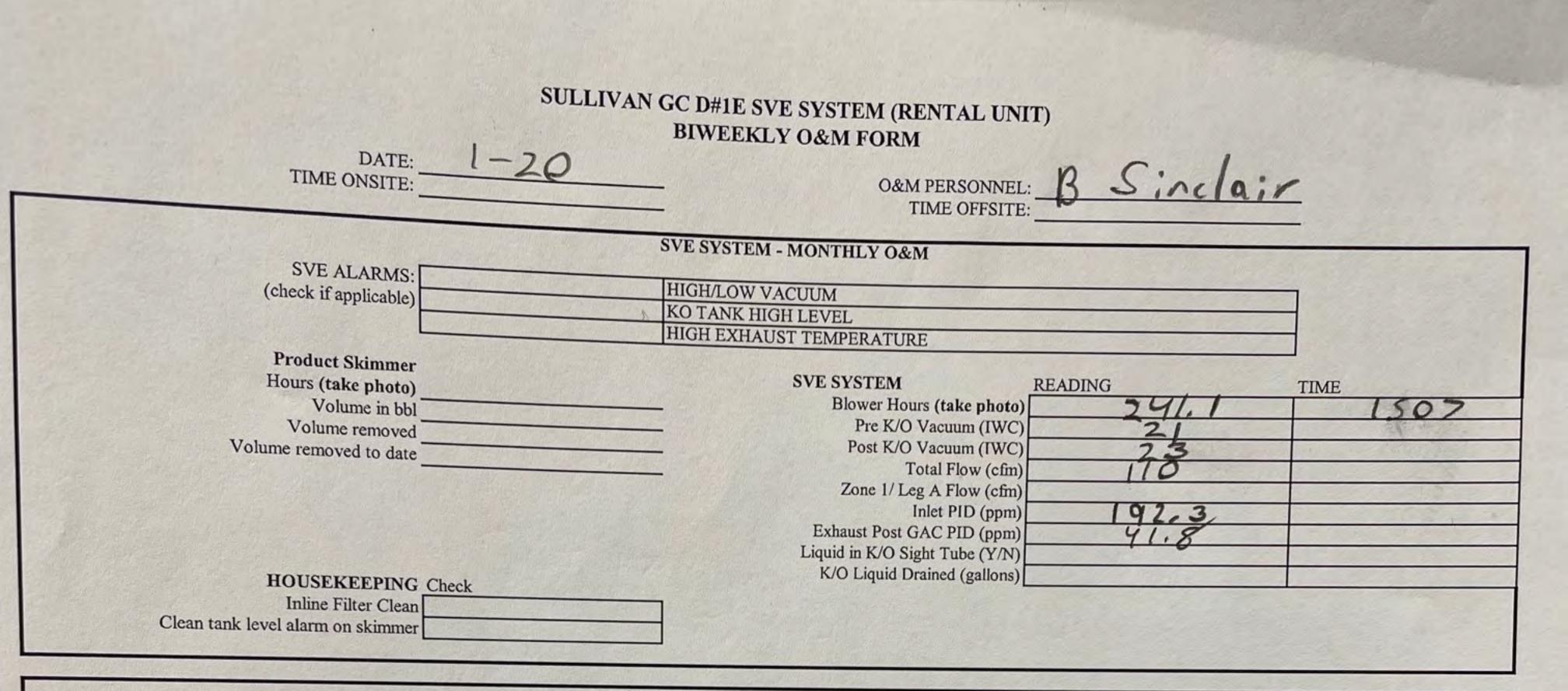
LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01	3,91	104.7	109.7	1 DOOD THILITID
MW-02	3.69	71. 6	71.8	
MW-05	3.11	and the first	60.1	
MW-06	3.25	and the second second	90.3	Contraction of the second
PR-2	3.3	- The Contract of the second	68.2	

# **Product Recovery**

LOCATION	Product thickness	Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	
LOCATION			(gal or oz?)	Replace Sock? (Y/
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and the second			A CONTRACT OF	
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ENTS/OTHER MAINTENANCE:	We want the second s			

COMMENTS/01H





#### SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID:

Analytes: TVPH (8015) VOCs (8260) Fixed Cas (CO)CO20

SAMPLE TIME:

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	ZONES				
С	hange in Well Operation:				
one 1/ Leg	Α				
	LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
	MW-01	3.72		158.6	
a set a set a set	MW-02	3,39		83.6	
	MW-05	2.04		681	L'and and the second
	MW-06	2.83		129.7	
Pr	PR-2 oduct Recovery	1 2100		0310	
		Product thickness	Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	Replace Sock? (Y/N)
	oduct Recovery		Product removed from Sock (volume and color)		Replace Sock? (Y/N
	oduct Recovery		Product removed from Sock (volume and color)		Replace Sock? (Y/N
	oduct Recovery		Product removed from Sock (volume and color)		Replace Sock? (Y/N
	oduct Recovery		Product removed from Sock (volume and color)		Replace Sock? (Y/N
	oduct Recovery		Product removed from Sock (volume and color)		Replace Sock? (Y/N
	oduct Recovery		Product removed from Sock (volume and color)		Replace Sock? (Y/N
Pr Well	oduct Recovery		Product removed from Sock (volume and color)		Replace Sock? (Y/N
	oduct Recovery		Product removed from Sock (volume and color)		Replace Sock? (Y/N

COMMENTS/OTHER MAINTENANCE:

SULI DATE: 2-8 TIME ONSITE:	LIVAN GC D#1E SVE SYSTEM (RENTAL UNIT) BIWEEKLY O&M FORM O&M PERSONNEL: <u>B Sinclair</u> TIME OFFSITE:
SVE ALARMS: (check if applicable)	SVE SYSTEM - MONTHLY O&M         HIGH/LOW VACUUM         KO TANK HIGH LEVEL         HIGH EXHAUST TEMPERATURE
Product Skimmer Hours (take photo) Volume in bbl Volume removed Volume removed Volume removed to date         HOUSEKEEPING Check Inline Filter Clean Clean tank level alarm on skimmer	SVE SYSTEM       READING       TIME         Blower Hours (take photo)       Pre K/O Vacuum (IWC)       498.3       1999         Pre K/O Vacuum (IWC)       17       17       1699         Post K/O Vacuum (IWC)       17       1699       1699         Total Flow (efm)       110       17       1699         Zone 1/ Leg A Flow (efm)       110       160       160         Inlet PID (ppm)       29.0       13.56       160         Liquid in K/O Sight Tube (Y/N)       13.56       160       160         K/O Liquid Drained (gallons)       13.56       160       160
SAMPLE ID: SVE-1	SAMPLE TIME: (700
Analytes: TVPH (8015), VOCs OPERATING WELLS	(8260), Fixed Gas (CO/CO2/O2)

# ZONES

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Change in Well Operation:

Zone 1/Leg A

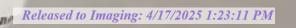
LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01	2,93,	and all shares and shares and shares at the	29.8	TESCOTVIENTS
MW-02	3.08		35.5	
MW-05	3.19		34.0	
MW-06	2.76		30.0	Contract Contract Contract
PR-1	3,24		29.3	Construction of the second second

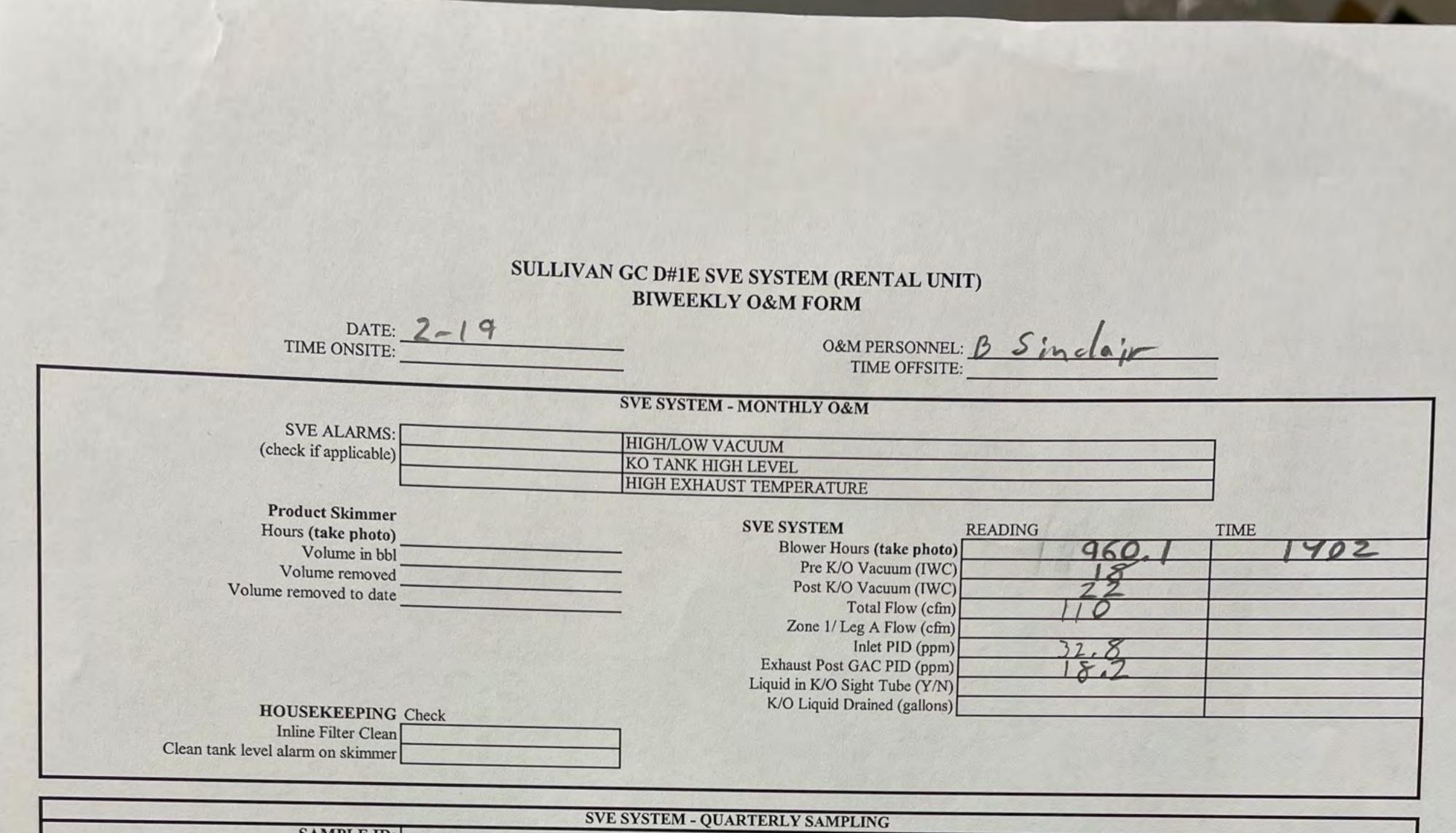
# **Product Recovery**

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LOCATION	Product thickness	Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	D 1
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COMMENTS/OTHER MAINTENANCE:





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Analyte OPERATING WELI	es: TVPH (8015), VOCs (8260), Fixed	Gas (CO/CO2/O2)		
ZONES				
Change in Well Operation:	The second second provide the se			
ne 1/ Leg A	VACUUM (IWC)	VELOCITY (fnm)		
	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
e 1/ Leg A LOCATION	VACUUM (IWC) 2.95 3.02	VELOCITY (fpm)	32.9	ADJUSTMENTS
e 1/ Leg A LOCATION MW-01	2.95	VELOCITY (fpm)	32.9	ADJUSTMENTS
ne 1/ Leg A LOCATION MW-01 MW-02	2.95	VELOCITY (fpm)	32.9	ADJUSTMENTS

# **Product Recovery**

Received by OCD: 4/15/2025 9:13:23 AM

I	Product thickness	Product removed from Sock (volume and color)	Volume removed to t 14	
LOCATION	Trouder interneter	(vortante und coror)	Volume removed total (gal or oz?)	Replace Sock? (Y/N
and the second of the second second second	and a stand of the second that the		and the second sec	Stophace BOCK? (Y/N
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			the second se	
and the second the				

COMMENTS/OTHER MAINTENANCE:

DATE: $3 - 9$ TIME ONSITE:	ULLIVAN GC D#1E SVE SYSTEM (RENTAL UNIT) BIWEEKLY O&M FORM O&M PERSONNEL: B Sinclair TIME OFFSITE:	_
	SVE SYSTEM - MONTHLY O&M	
SVE ALARMS: (check if applicable)	HIGH/LOW VACUUM KO TANK HIGH LEVEL HIGH EXHAUST TEMPERATURE	
Product Skimmer Hours (take photo) Volume in bbl Volume removed Volume removed to date	SVE SYSTEM       READING         Blower Hours (take photo)       1272.9         Pre K/O Vacuum (IWC)       17         Post K/O Vacuum (IWC)       72         Total Flow (cfm)       110         Zone 1/ Leg A Flow (cfm)       110         Inlet PID (ppm)       31.99         Liquid in K/O Sight Tube (Y/N)       17.6	TIME 1445
HOUSEKEEPING Check Inline Filter Clean Clean tank level alarm on skimmer	K/O Liquid Drained (gallons)	

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•

	SVE SYSTEM - QUARTERLY SAMPLING	
SAMPLE ID:		
Analytes:	TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)	
OPERATING WELLS		

# ZONES

Change in	Well	Operation:
-----------	------	------------

one 1/ Leg A		VELOCITY (fam)	PID HEADSPACE (PPM)	ADJUSTMENTS
LOCATION	VACUUM (IWC)	VELOCITY (fpm)	<b>3</b>	Therefore
MW-01	2.88		78.0	
MW-02	3.01		210	
MW-05	3.20		27 3	
MW-06	2.98		30.3	
PR-2	3.09			

# **Product Recovery**

ell	Product thickness	Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	Replace Sock? (Y/N0
LOCATION	Tioudor and			
		the second s		and the second
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	and the second se			

COMMENTS/OTHER MAINTENANCE:

# SULLIVAN GC D#1E SVE SYSTEM (RENTAL UNIT) BIWEEKLY O&M FORM

DATE: <u>3-25</u> TIME ONSITE:	O&M PERSONNEL: <u>B</u> Sinclair TIME OFFSITE:
SVE ALARMS: (check if applicable)	SVE SYSTEM - MONTHLY O&M HIGH/LOW VACUUM KO TANK HIGH LEVEL
	HIGH EXHAUST TEMPERATURE
Product Skimmer         Hours (take photo)         Volume in bbl         Volume removed         Volume removed to date	SVE SYSTEM     READING     TIME       Blower Hours (take photo)     Pre K/O Vacuum (IWC)     135 9       Post K/O Vacuum (IWC)     18     135 9       Total Flow (cfm)     18     135 9       Zone 1/ Leg A Flow (cfm)     100     14       Inlet PID (ppm)     28.8     100       Exhaust Post GAC PID (ppm)     12.4     100       Liquid in K/O Sight Tube (Y/N)     12.4     100
HOUSEKEEPING Check Inline Filter Clean Clean tank level alarm on skimmer	

SVE SYSTEM - OUARTERLY SAMPLING

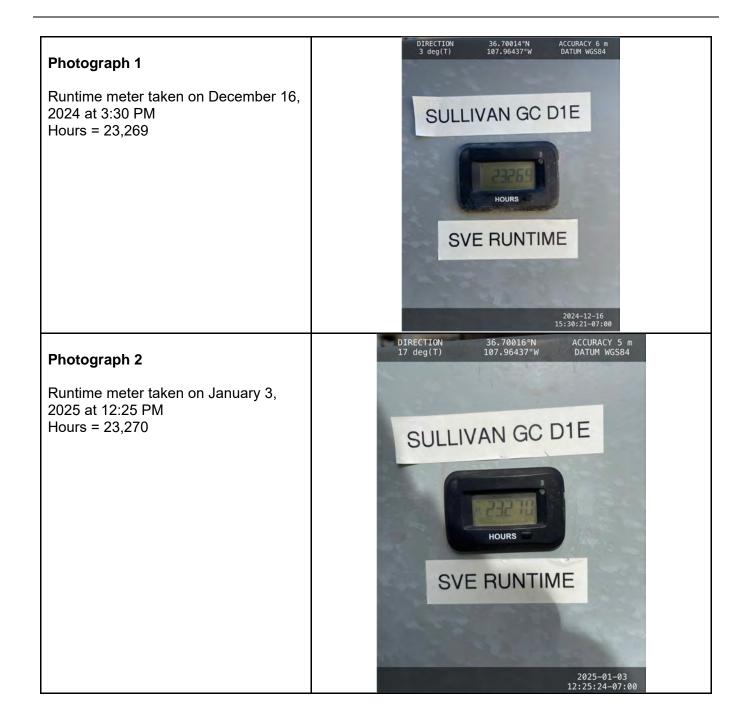
		/E SYSTEM - QUARTERLY SAMPLING	a man and a second s	
SAMPLE ID:		SAMPLE TIME:		
Analytes:	: TVPH (8015), VOCs (8260),	Fixed Gas (CO/CO2/O2)		The second second
OPERATING WELLS	5			
TONES				
ZONES				
	States States & States	All and a second se		
Change in Well Operation:				
e 1/Leg A	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
LOCATION	2.87		30.1	
MW-01	3.01		29.7	
MW-02 MW-05	3.1.5	The California and the California and the California	30.5	and the second second
MW-05 MW-06	2.96	and the state of t	31.8	1
PR-2	3.11		31.2	12
II LOCATION	Product thickness	Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	Replace Sock? (Y/N
LOCATION				
and the second se				
	a Charles for Dark State States &			
				the second second
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COMMENTS/OTHER MAINTENANCE:

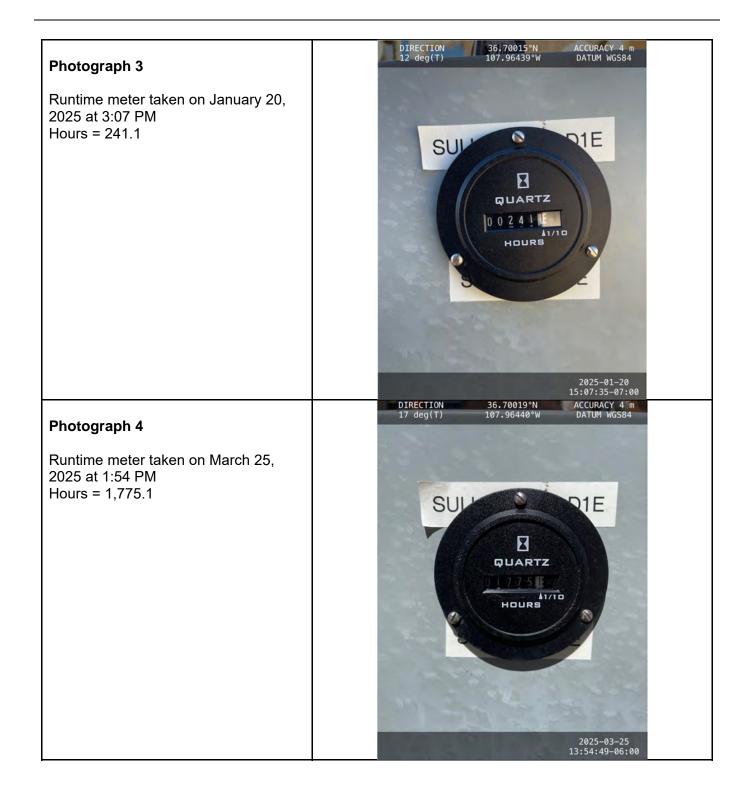


# **APPENDIX B**

**Project Photographs** 



Hilcorp Energy Company





# APPENDIX C

# Laboratory Analytical Reports

Received by OCD: 4/15/2025 9:13:23 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

#### **PREPARED FOR**

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 2/24/2025 5:10:06 PM

#### **JOB DESCRIPTION**

Sullivan GC D 1E

#### **JOB NUMBER**

885-19767-1

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Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109





#### **Eurofins Albuquerque**

**Job Notes** 

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

Authorization

Juhille (parica Authorized for release by

Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com

(505)345-3975

Generated 2/24/2025 5:10:06 PM

Laboratory Job ID: 885-19767-1

2 3

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Table of Contents	3
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Case Narrative	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Subcontract Data	16
Chain of Custody	23
Receipt Checklists	24

#### **Definitions/Glossary**

Client: Hilcorp Energy Project/Site: Sullivan GC D 1E Job ID: 885-19767-1

Page	25	of 46	
------	----	-------	--

Glossary		3
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	5
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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**

Job ID: 885-19767-1

#### Client: Hilcorp Energy Project: Sullivan GC D 1E

#### Job ID: 885-19767-1

#### **Eurofins Albuquerque**

#### Job Narrative 885-19767-1

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

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

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

#### Receipt

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

#### Subcontract Work

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

#### Gasoline Range Organics

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

#### GC/MS VOA

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

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Job ID: 885-19767-1

#### Client: Hilcorp Energy Project/Site: Sullivan GC D 1E

Client Sample ID: SVE-1

#### Date Collected: 02/08/25 17:00

#### Lab Sample ID: 885-19767-1

Matrix: Air

Date Received: 02/12/25 07:20 Sample Container: Tedlar Bag 1L

Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	460		50	ug/L			02/20/25 15:56	1
-	<b>* P</b>	0 115				- <i>'</i>		
Surrogate	%Recovery	Qualifier	Limits		-	Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		52 - 172				02/20/25 15:56	10
Method: SW846 8260B - Volatil	e Organic Comp	ounds (GC	/MS)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			02/20/25 15:56	1(
1,1,1-Trichloroethane	ND		1.0	ug/L			02/20/25 15:56	10
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			02/20/25 15:56	1(
1,1,2-Trichloroethane	ND		1.0	ug/L			02/20/25 15:56	1(
1,1-Dichloroethane	ND		1.0	ug/L			02/20/25 15:56	1(
1,1-Dichloroethene	ND		1.0	ug/L			02/20/25 15:56	1(
1,1-Dichloropropene	ND		1.0	ug/L			02/20/25 15:56	1(
1,2,3-Trichlorobenzene	ND		1.0	ug/L			02/20/25 15:56	1(
1,2,3-Trichloropropane	ND		2.0	ug/L			02/20/25 15:56	1(
1,2,4-Trichlorobenzene	ND		1.0	ug/L			02/20/25 15:56	1(
1,2,4-Trimethylbenzene	ND		1.0	ug/L			02/20/25 15:56	10
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			02/20/25 15:56	1(
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			02/20/25 15:56	1(
1,2-Dichlorobenzene	ND		1.0	ug/L			02/20/25 15:56	1(
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			02/20/25 15:56	1(
1,2-Dichloropropane	ND		1.0	ug/L			02/20/25 15:56	1(
1,3,5-Trimethylbenzene	ND		1.0	ug/L			02/20/25 15:56	1(
1,3-Dichlorobenzene	ND		1.0	ug/L			02/20/25 15:56	1(
1,3-Dichloropropane	ND		1.0	ug/L			02/20/25 15:56	1(
1,4-Dichlorobenzene	ND		1.0	ug/L			02/20/25 15:56	1(
1-Methylnaphthalene	ND		4.0	ug/L			02/20/25 15:56	1(
2,2-Dichloropropane	ND		2.0	ug/L			02/20/25 15:56	1(
2-Butanone	ND		10	ug/L			02/20/25 15:56	1(
2-Chlorotoluene	ND		1.0	ug/L			02/20/25 15:56	1(
2-Hexanone	ND		10	ug/L			02/20/25 15:56	1(
2-Methylnaphthalene	ND		4.0	ug/L			02/20/25 15:56	1(
4-Chlorotoluene	ND		1.0	ug/L			02/20/25 15:56	1(
4-Isopropyltoluene	ND		1.0	ug/L			02/20/25 15:56	1(
4-Methyl-2-pentanone	ND		10	ug/L			02/20/25 15:56	1(
Acetone	ND		10	ug/L			02/20/25 15:56	1(
Benzene	6.1		1.0	ug/L			02/20/25 15:56	1(
Bromobenzene	ND		1.0	ug/L			02/20/25 15:56	1(
Bromodichloromethane	ND		1.0	ug/L			02/20/25 15:56	1(
Dibromochloromethane	ND		1.0	ug/L			02/20/25 15:56	1(
Bromoform	ND		1.0	ug/L			02/20/25 15:56	1(
Bromomethane	ND		3.0	ug/L			02/20/25 15:56	1(
Carbon disulfide	ND		10	ug/L			02/20/25 15:56	1(
Carbon tetrachloride	ND		1.0	ug/L			02/20/25 15:56	1(
Chlorobenzene	ND		1.0	ug/L			02/20/25 15:56	1(
Chloroethane	ND		2.0	ug/L			02/20/25 15:56	
Chloroform	ND		1.0	ug/L			02/20/25 15:56	1(

Job ID: 885-19767-1

#### Lab Sample ID: 885-19767-1

Matrix: Air

5

Date Collected: 02/08/25 17:00 Date Received: 02/12/25 07:20 Sample Container: Tedlar Bag 1L

Project/Site: Sullivan GC D 1E
Client Sample ID: SVE-1

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		3.0	ug/L			02/20/25 15:56	10
cis-1,2-Dichloroethene	ND		1.0	ug/L			02/20/25 15:56	10
cis-1,3-Dichloropropene	ND		1.0	ug/L			02/20/25 15:56	10
Dibromomethane	ND		1.0	ug/L			02/20/25 15:56	10
Dichlorodifluoromethane	ND		1.0	ug/L			02/20/25 15:56	10
Ethylbenzene	ND		1.0	ug/L			02/20/25 15:56	10
Hexachlorobutadiene	ND		1.0	ug/L			02/20/25 15:56	10
Isopropylbenzene	ND		1.0	ug/L			02/20/25 15:56	10
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			02/20/25 15:56	10
Methylene Chloride	ND		3.0	ug/L			02/20/25 15:56	10
n-Butylbenzene	ND		3.0	ug/L			02/20/25 15:56	10
N-Propylbenzene	ND		1.0	ug/L			02/20/25 15:56	10
Naphthalene	ND		2.0	ug/L			02/20/25 15:56	10
sec-Butylbenzene	ND		1.0	ug/L			02/20/25 15:56	10
Styrene	ND		1.0	ug/L			02/20/25 15:56	10
tert-Butylbenzene	ND		1.0	ug/L			02/20/25 15:56	10
Tetrachloroethene (PCE)	ND		1.0	ug/L			02/20/25 15:56	10
Toluene	6.3		1.0	ug/L			02/20/25 15:56	10
trans-1,2-Dichloroethene	ND		1.0	ug/L			02/20/25 15:56	10
trans-1,3-Dichloropropene	ND		1.0	ug/L			02/20/25 15:56	10
Trichloroethene (TCE)	ND		1.0	ug/L			02/20/25 15:56	10
Trichlorofluoromethane	ND		1.0	ug/L			02/20/25 15:56	10
Vinyl chloride	ND		1.0	ug/L			02/20/25 15:56	10
Xylenes, Total	3.7		1.5	ug/L			02/20/25 15:56	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		-		02/20/25 15:56	10
Toluene-d8 (Surr)	100		70 - 130				02/20/25 15:56	10
4-Bromofluorobenzene (Surr)	97		70 - 130				02/20/25 15:56	10
Dibromofluoromethane (Surr)	100		70 - 130				02/20/25 15:56	10

#### **QC Sample Results**

5

6

Job ID: 885-19767-1

Client: Hilcorp Energy Project/Site: Sullivan GC D 1E

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

Lab Sample ID: MB 885-21167/5 Matrix: Air								Client S	Sample ID: Metho Prep Type:	
Analysis Batch: 21167										
	N	B MB								
Analyte	Resu	lt Qualifie	er F	RL	Unit		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	N	D	5	.0	ug/L				02/20/25 13:52	1
	N	B MB								
Surrogate	%Recove	ry Qualifie	er Limits					Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		8	52 - 172	2			_		02/20/25 13:52	1
Lab Sample ID: LCS 885-21167/4							Clie	ent Sample	ID: Lab Control	Sample
Matrix: Air									Prep Type:	
Analysis Batch: 21167										
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits	
Gasoline Range Organics [C6 -			500	542		ug/L		108	70 - 130	
C10]										
	LCS L	cs								
Surrogate	%Recovery Q	ualifier	Limits							
4-Bromofluorobenzene (Surr)	103		52 - 172							

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

Lab Sample ID: MB 885-21168/4 Matrix: Air					Client S	ample ID: Metho Prep Type: 1	
Analysis Batch: 21168							
	MB	МВ					
Analyte	Result	Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L		02/20/25 13:52	1
1,1,1-Trichloroethane	ND		0.10	ug/L		02/20/25 13:52	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L		02/20/25 13:52	1
1,1,2-Trichloroethane	ND		0.10	ug/L		02/20/25 13:52	1
1,1-Dichloroethane	ND		0.10	ug/L		02/20/25 13:52	1
1,1-Dichloroethene	ND		0.10	ug/L		02/20/25 13:52	1
1,1-Dichloropropene	ND		0.10	ug/L		02/20/25 13:52	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L		02/20/25 13:52	1
1,2,3-Trichloropropane	ND		0.20	ug/L		02/20/25 13:52	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L		02/20/25 13:52	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L		02/20/25 13:52	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L		02/20/25 13:52	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L		02/20/25 13:52	1
1,2-Dichlorobenzene	ND		0.10	ug/L		02/20/25 13:52	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L		02/20/25 13:52	1
1,2-Dichloropropane	ND		0.10	ug/L		02/20/25 13:52	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L		02/20/25 13:52	1
1,3-Dichlorobenzene	ND		0.10	ug/L		02/20/25 13:52	1
1,3-Dichloropropane	ND		0.10	ug/L		02/20/25 13:52	1
1,4-Dichlorobenzene	ND		0.10	ug/L		02/20/25 13:52	1
1-Methylnaphthalene	ND		0.40	ug/L		02/20/25 13:52	1
2,2-Dichloropropane	ND		0.20	ug/L		02/20/25 13:52	1
2-Butanone	ND		1.0	ug/L		02/20/25 13:52	1
2-Chlorotoluene	ND		0.10	ug/L		02/20/25 13:52	1
2-Hexanone	ND		1.0	ug/L		02/20/25 13:52	1

#### **QC Sample Results**

Client: Hilcorp Energy Project/Site: Sullivan GC D 1E

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

#### Lab Sample ID: MB 885-21168/4

Matrix: Air Analysis Batch: 21168

	MB	MB					
Analyte	Result	Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.40	ug/L		02/20/25 13:52	1
4-Chlorotoluene	ND		0.10	ug/L		02/20/25 13:52	1
4-Isopropyltoluene	ND		0.10	ug/L		02/20/25 13:52	1
1-Methyl-2-pentanone	ND		1.0	ug/L		02/20/25 13:52	1
Acetone	ND		1.0	ug/L		02/20/25 13:52	1
Benzene	ND		0.10	ug/L		02/20/25 13:52	1
Bromobenzene	ND		0.10	ug/L		02/20/25 13:52	1
Bromodichloromethane	ND		0.10	ug/L		02/20/25 13:52	1
Dibromochloromethane	ND		0.10	ug/L		02/20/25 13:52	1
Bromoform	ND		0.10	ug/L		02/20/25 13:52	1
Bromomethane	ND		0.30	ug/L		02/20/25 13:52	1
Carbon disulfide	ND		1.0	ug/L		02/20/25 13:52	1
Carbon tetrachloride	ND		0.10	ug/L		02/20/25 13:52	1
Chlorobenzene	ND		0.10	ug/L		02/20/25 13:52	1
Chloroethane	ND		0.20	ug/L		02/20/25 13:52	1
Chloroform	ND		0.10	ug/L		02/20/25 13:52	1
Chloromethane	ND		0.30	ug/L		02/20/25 13:52	1
cis-1,2-Dichloroethene	ND		0.10	ug/L		02/20/25 13:52	1
cis-1,3-Dichloropropene	ND		0.10	ug/L		02/20/25 13:52	1
Dibromomethane	ND		0.10	ug/L		02/20/25 13:52	1
Dichlorodifluoromethane	ND		0.10	ug/L		02/20/25 13:52	1
Ethylbenzene	ND		0.10	ug/L		02/20/25 13:52	1
	ND		0.10	ug/L		02/20/25 13:52	1
sopropylbenzene	ND		0.10	ug/L		02/20/25 13:52	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L		02/20/25 13:52	1
Methylene Chloride	ND		0.30	ug/L		02/20/25 13:52	1
n-Butylbenzene	ND		0.30	ug/L		02/20/25 13:52	1
	ND		0.10	ug/L		02/20/25 13:52	1
Naphthalene	ND		0.20	ug/L		02/20/25 13:52	1
sec-Butylbenzene	ND		0.10	ug/L		02/20/25 13:52	1
Styrene	ND		0.10	ug/L		02/20/25 13:52	1
ert-Butylbenzene	ND		0.10	ug/L		02/20/25 13:52	1
Fetrachloroethene (PCE)	ND		0.10	ug/L		02/20/25 13:52	
Foluene	ND		0.10	ug/L		02/20/25 13:52	1
rans-1,2-Dichloroethene	ND		0.10	ug/L		02/20/25 13:52	1
rans-1,3-Dichloropropene	ND		0.10	ug/L		02/20/25 13:52	
Trichloroethene (TCE)	ND		0.10	ug/L		02/20/25 13:52	1
Frichlorofluoromethane	ND		0.10	ug/L		02/20/25 13:52	1
/inyl chloride	ND		0.10	ug/L		02/20/25 13:52	' 1
Kylenes, Total	ND		0.15	ug/L		02/20/25 13:52	1
cylenes, iotai	ND		0.15	ug/L		02/20/25 15.52	I
	MB	MB					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130			02/20/25 13:52	1
Toluene-d8 (Surr)	96		70 _ 130			02/20/25 13:52	1
4-Bromofluorobenzene (Surr)	96		70 - 130			02/20/25 13:52	1
Dibromofluoromethane (Surr)	103		70 - 130			02/20/25 13:52	1

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

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#### **QC Sample Results**

Job ID: 885-19767-1

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

Analysis Batch: 21168										
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene			20.1	18.0		ug/L		90	70 - 130	
Benzene			20.1	19.7		ug/L		98	70 - 130	-
Chlorobenzene			20.1	18.8		ug/L		94	70 - 130	
Toluene			20.2	18.4		ug/L		91	70 - 130	
Trichloroethene (TCE)			20.2	18.9		ug/L		94	70 - 130	
	LCS	LCS								1
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	108		70 - 130							
Toluene-d8 (Surr)	95		70 - 130							
4-Bromofluorobenzene (Surr)	97		70 - 130							
Dibromofluoromethane (Surr)	103		70 - 130							

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#### **QC Association Summary**

Client: Hilcorp Energy Project/Site: Sullivan GC D 1E Job ID: 885-19767-1

# 5 6 7 8 9 10 11 12

Eurofins Albuquerque

#### Analysis Batch: 21167

**GC/MS VOA** 

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
85-19767-1	SVE-1	Total/NA	Air	8015M/D	
/IB 885-21167/5	Method Blank	Total/NA	Air	8015M/D	
.CS 885-21167/4	Lab Control Sample	Total/NA	Air	8015M/D	

#### Analysis Batch: 21168

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-19767-1	SVE-1	Total/NA	Air	8260B	
MB 885-21168/4	Method Blank	Total/NA	Air	8260B	
LCS 885-21168/3	Lab Control Sample	Total/NA	Air	8260B	

#### Lab Chronicle

Job ID: 885-19767-1

#### Client: Hilcorp Energy Project/Site: Sullivan GC D 1E

#### **Client Sample ID: SVE-1** Date Collected: 02/08/25 17:00 Date Received: 02/12/25 07:20

Γ	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D		10	21167	СМ	EET ALB	02/20/25 15:56
Total/NA	Analysis	8260B		10	21168	СМ	EET ALB	02/20/25 15:56

#### 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

**Eurofins Albuquerque** 

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Sullivan GC D 1E

#### Laboratory: Eurofins Albuquerque

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

ority	Progra	am	Identification Number	Expiration Date
Mexico	State		NM9425, NM0901	02-26-25
The following enclutes	are included in this report by	it the leberatory is not cortif	ind by the governing outbority. This lie	
	are included in this report, bu	It the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
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-Chloroprop	ane
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	

**Page 34 of 46** 

Job ID: 885-19767-1

#### Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Sullivan GC D 1E

#### Laboratory: Eurofins Albuquerque (Continued)

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

rity	Program	Identification	Number	Expiration Date
The following analytes are included i	n this report, but the laboratory	is not certified by the governing autho	rity. This lis	st may include analytes
for which the agency does not offer of	certification.			
Analysis Method Prep I	Method Matrix	Analyte		
8260B	Air	Dibromometha	ne	
8260B	Air	Dichlorodifluo	omethane	
8260B	Air	Ethylbenzene		
8260B	Air	Hexachlorobu	adiene	
8260B	Air	lsopropylbenz	ene	
8260B	Air	Methylene Ch	oride	
8260B	Air	Methyl-tert-bu	yl Ether (M⁻	TBE)
8260B	Air	Naphthalene		
8260B	Air	n-Butylbenzer	е	
8260B	Air	N-Propylbenz	ne	
8260B	Air	sec-Butylbenz	ene	
8260B	Air	Styrene		
8260B	Air	tert-Butylbenz	ne	
8260B	Air	Tetrachloroeth	ene (PCE)	
8260B	Air	Toluene		
8260B	Air	trans-1,2-Dich	oroethene	
8260B	Air	trans-1,3-Dich	oropropene	e
8260B	Air	Trichloroether	∍ (TCE)	
8260B	Air	Trichlorofluoro	nethane	
8260B	Air	Vinyl chloride		
8260B	Air	Xylenes, Total		
n	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

Job ID: 885-19767-1

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#### **Accreditation/Certification Summary**

Client: Hilcorp Energy Project/Site: Sullivan GC D 1E Job ID: 885-19767-1

#### Laboratory: Eurofins Albuquerque (Continued)

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

rity	Progra	im	Identification Number	Expiration Date	
The following analytes a	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This list i	may include analytes	
for which the agency do	pes 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		- i
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	lsopropylbenzene		
8260B		Air	Methylene Chloride		
8260B		Air	Methyl-tert-butyl Ether (MTE	BE)	
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		



#### ANALYTICAL SUMMARY REPORT

February 18, 2025

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

Work Order: B25020703 Quote ID: B15626

Project Name: 88501698, Sullivan GC D 1E

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

Lab ID	Client Sample ID	Collect Date Receive Date	Matri x	Test
B25020703-001	SVE-1 (885-19767-1)	02/08/25 17:00 02/13/25	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

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



Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

#### LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:	Eurofins TestAmerica - Albuquerque	
Project:	88501698, Sullivan GC D 1E	Col
Lab ID:	B25020703-001	Da
Client Sample	ID: SVE-1 (885-19767-1)	

 Report Date:
 02/18/25

 Collection Date:
 02/08/25 17:00

 DateReceived:
 02/13/25

 Matrix:
 Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	18.43	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Nitrogen	78.36	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Carbon Dioxide	1.43	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Methane	1.45	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Ethane	0.21	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Propane	0.08	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
n-Butane	0.02	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Isopentane	0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Hexanes plus	0.01	Mol %		0.01		GPA 2261-13	02/14/25 11:05 / jrj
Propane	0.022	gpm		0.001		GPA 2261-13	02/14/25 11:05 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:05 / jrj
n-Butane	0.006	gpm		0.001		GPA 2261-13	02/14/25 11:05 / jrj
Isopentane	0.004	gpm		0.001		GPA 2261-13	02/14/25 11:05 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	02/14/25 11:05 / jrj
Hexanes plus	0.004	gpm		0.001		GPA 2261-13	02/14/25 11:05 / jrj
GPM Total	0.036	gpm		0.001		GPA 2261-13	02/14/25 11:05 / jrj
GPM Pentanes plus	0.008	gpm		0.001		GPA 2261-13	02/14/25 11:05 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	22			1		GPA 2261-13	02/14/25 11:05 / jrj
Net BTU per cu ft @ std cond. (LHV)	20			1		GPA 2261-13	02/14/25 11:05 / jrj
Pseudo-critical Pressure, psia	548			1		GPA 2261-13	02/14/25 11:05 / jrj
Pseudo-critical Temperature, deg R	244			1		GPA 2261-13	02/14/25 11:05 / jrj
Specific Gravity @ 60/60F	0.996			0.001		D3588-81	02/14/25 11:05 / jrj
Air, % - The analysis was not corrected for air.	84.19			0.01		GPA 2261-13	02/14/25 11:05 / jrj

#### COMMENTS

02/14/25 11:05 / 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



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#### **QA/QC Summary Report**

Prepared by Billings, MT Branch

Work Order: B25020703

Report Date: 02/18/25

• • •		0	D If	11		0/ DE0	1				0
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-13									Batch:	R436876
Lab ID:	B25020706-001ADUP	12 Samp	le Duplic	ate			Run: GC78	90_250214A		02/14	25 12:43
Oxygen			21.8	Mol %	0.01				0.4	20	
Nitrogen			78.1	Mol %	0.01				0.1	20	
Carbon D	ioxide		0.12	Mol %	0.01				8.0	20	
Hydrogen	Sulfide		<0.01	Mol %	0.01					20	
Methane			<0.01	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutane	9		<0.01	Mol %	0.01					20	
n-Butane			<0.01	Mol %	0.01					20	
Isopentan	e		<0.01	Mol %	0.01					20	
n-Pentane	e		<0.01	Mol %	0.01					20	
Hexanes	plus		<0.01	Mol %	0.01					20	
Lab ID:	LCS021825	11 Labor	atory Co	ntrol Sample			Run: GC78	90_250214A		02/14	25 02:42
Oxygen			0.61	Mol %	0.01	122	70	130			
Nitrogen			6.02	Mol %	0.01	100	70	130			
Carbon D	ioxide		0.98	Mol %	0.01	99	70	130			
Methane			74.8	Mol %	0.01	100	70	130			
Ethane			5.99	Mol %	0.01	100	70	130			
Propane			5.00	Mol %	0.01	101	70	130			
Isobutane	)		1.84	Mol %	0.01	92	70	130			
n-Butane			1.98	Mol %	0.01	99	70	130			
Isopentan	e		1.00	Mol %	0.01	100	70	130			
n-Pentane	e		0.99	Mol %	0.01	99	70	130			
Hexanes	plus		0.79	Mol %	0.01	99	70	130			

ENERG

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B25020703

5
8
9
10

	•			
Work	Order	Receip	ot Cheo	cklist

#### Eurofins TestAmerica - Albuquerque

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Login completed by:	Crystal M. Jones		Date	Received: 2/13/2025
Reviewed by:	Icadreau		Re	ceived by: DNH
Reviewed Date:	eviewed Date: 2/13/2025			rier name: FedEx NDA
Shipping container/cooler in	good condition?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all sh	nipping container(s)/cooler(s)?	Yes	No 🗌	Not Present 🗹
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🗌	
Chain of custody signed whe	en relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees with	a 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 h (Exclude analyses that are co such as pH, DO, Res Cl, Su	onsidered field parameters	Yes 🗸	No 🗌	
Temp Blank received in all sl	nipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank tempe	erature:	5.3°C No Ice		
Containers requiring zero hea bubble that is <6mm (1/4").	adspace have no headspace or	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

	Agency	Number				
	Alaska	17-023				
	California	3087				
	Colorado	MT00005				
	Department of Defense (DoD)/ISO17025	ADE-2588				
Billings, MT	Florida (Primary NELAP)	E87668				
and the second second	Idaho	MT00005				
d	Louisiana	05079				
ANAB	Montana	CERT0044				
ARST Namousl Accimentation There A C C F E D I T E D	Nebraska	NE-OS-13-04				
TESTING LABORATORY	Nevada	NV-C24-00250				
A BUCKRE	North Dakota	R-007				
	National Radon Proficiency	109383-RMP				
7811	Oregon	4184				
ADRATOR.	South Dakota	ARSD 74:04:07				
	Texas	TX-C24-00302				
	US EPA Region VIII	Reciprocal				
	USDA Soil Permit	P330-20-00170				
	Washington	C1039				
	Alaska	20-006				
	California	3021				
	Colorado	WY00002				
	Florida (Primary NELAP)	E87641				
	Idaho	WY00002				
1404	Louisiana	05083				
asper, WY	Montana	CERT0002				
ACCESOR	Nebraska	NE-OS-08-04				
	Nevada	NV-C24-00245				
MARORINON	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				
illette, WY	US EPA Region VIII	WY00006				
	Colorado	MT00945				
elena, MT	Montana	CERT0079				
A REAL PROPERTY AND A REAL PROPERTY AND	Nevada	NV-C24-00119				
	US EPA Region VIII	Reciprocal				
	USDA Soil Permit	P330-20-00090				

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

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Sample Date     Interval (LC attention immediate):       Interval Date/Time: <td>Sampler:     Lab PM: Garcia, Michelle       N/A     Garcia, Michelle       N/A     E-Mail: michelle.garcia, Accreditation       N/A     Correditation       Due Date Requested:     2/19/2025       TAT Requested (days):     N/A       N/A     N/A       WO #:     N/A       N/A     Gorget #:       N/A     Gorget #:       Sample Date     Sample       Trine     Trine       Corcomp,     Trine       Sample Date     Sample       Trine     Trine       Sample Date     Sample       Trine     Trine       Corcomp,     Trine       Date/Time     Corcomp,       Trine     Trine       Trine     Trine       South Central, LLC places the ownership of method, analyte &amp; accreditations are current to the samples must be shipped to the samples m</td> <td>N/A     Garcia, Michelle       Phone:     E-Mail:       N/A     michelle.garcia@et.eu       Accreditations Requir     NELAP - Oregon       Due Date Requested:     2/19/2025       TAT Requested (days):     N/A       PO #:     N/A       WO #:     N/A       N/A     Image: Sample Sample Time       Sample Date     Sample Type (C=Comp, Oregon)       Sample Date     Trime       2/8/25     17:00       G     Air       X     Image: Sample Care       2/8/25     17:00       G     Air       X     Image: Sample Care       2/8/25     17:00       G     Air       X     Image: Sample Care       Date     Image: Sample Care       Trime     Image: Sample Care       Date     Image: Sample Care       Trime     Image: Sample Care       Date:     Image: Sample Care       Date:     Image: Sample Care       Date:     Image: Company       Primary Deliverable Rank: 2     Special Instructions are current to date, ref       Date:     Image: Company       Date:     Image: Company       Date:     Image: Company       Date:     Image: Company</td> <td>Sampler:     Lab PM: Garcia, Michelle       Phone:     E-Mail:       N/A     michelle garcia@et.eurofinsu       N/A     Michelle       Duo Dete Requested:     D/19/2025       1/19/2025     N/A       PO #:     N/A       N/A     Sample       Sample Date     Sample (C=Comp, Director, Bigger B)       Sample Date     Time       2/B/25     17:00       Preservation Code:     N/A       V/A     N/A       N/A     N/A       N/A     N/A       Sample Date     17:00       Preservation Code:     N/A       V/A     N/A       N/A     N/A       South Central, LLC places the ownership of method, analyte &amp; accreditation compliangin liad above for analysis/hestamatrix being analyzed, the samples must be shipped back to the Eurofin mg South Central, LLC places the ownership of method, analyte &amp; accreditation compliangin liad above for analysis/hestamatrix being analyzed, the samples must be shipped back to the Eurofin mg South Central, LLC attention immediately. If all requested accreditations are current to date, return the Cimp South Central, LL</td> <td>Sampler:       Lab PM:         N/A       E-Mail:         N/A       Accraditations Required (Sae noth):         N/A       Mithelle garcia@et eurofinsus.com         Accraditations Required (Sae noth):       NELAP - Oregon; State - New M         Due Date Requested:       2/16/2025         TAT Requested (days):       N/A         N/A       WO #:         N/A       Bample Date         Sample Date       Sample (C=comp, with Weight Bample B</td> <td>Sampler:     N/A     Cab PM: Garcia, Michelle       Phone:     F-Mail:       N/A     F-Mail:       Date Requested:     2/19/2025       2/19/2025     Analysis Ref       TAT Requested:     N/A       PO #:     N/A       N/A     Image: Sample Cable Requested:       2/19/2025     Analysis Ref       TAT Requested:     N/A       PO #:     N/A       N/A     Image: Sample Cable Requested:       Sample Date Requested:     Image: Sample Cable Ref       TAT Requested: (days):     N/A       Wo #:     N/A       Wo #:     N/A       Wo #:     N/A       N/A     Image: Sample Cable Requested:       Sample Date Sample Time     Preservation Code:       Yreport #     Sample Cable Requested:       Sample Date Sample Time     Preservation Code:       Via Cable Sample Cable Cable Requested:     Image: Sample Cable Cable Requested:       Sample Date Sample Cable Requested:     Image: Sample Cable Requested:       Sample Date Sample Cable Requested:     Image: Sample Cable Requested:       Sample Date Requested:     Image: Sample Requested:       Sample Date Requested:     Image: Sample Requested:       Sample Date Requested:     Image: Sample Requested:       Sample Date Requested:</td> <td>Sample:     Lab PM:       N/A     Garcia, Michelle       Phone:     PLANA:       Phone:     PLANA:       N/A     Michelle, garcia@et.eurofinsus.com       Sample Date     Sample       Time     Sample       Qission     Air       2/8/25     Mountain       Garcia@et.eurofinsus.com     Michelle, garcia@et.eurofinsus.com       Z/8/25     Mountain</td> <td>Sampler:     Lab Mé.     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Page</td><td>Control of the second sec</td></td>	Sampler:     Lab PM: Garcia, Michelle       N/A     Garcia, Michelle       N/A     E-Mail: michelle.garcia, Accreditation       N/A     Correditation       Due Date Requested:     2/19/2025       TAT Requested (days):     N/A       N/A     N/A       WO #:     N/A       N/A     Gorget #:       N/A     Gorget #:       Sample Date     Sample       Trine     Trine       Corcomp,     Trine       Sample Date     Sample       Trine     Trine       Sample Date     Sample       Trine     Trine       Corcomp,     Trine       Date/Time     Corcomp,       Trine     Trine       Trine     Trine       South Central, LLC places the ownership of method, analyte & accreditations are current to the samples must be shipped to the samples m	N/A     Garcia, Michelle       Phone:     E-Mail:       N/A     michelle.garcia@et.eu       Accreditations Requir     NELAP - Oregon       Due Date Requested:     2/19/2025       TAT Requested (days):     N/A       PO #:     N/A       WO #:     N/A       N/A     Image: Sample Sample Time       Sample Date     Sample Type (C=Comp, Oregon)       Sample Date     Trime       2/8/25     17:00       G     Air       X     Image: Sample Care       2/8/25     17:00       G     Air       X     Image: Sample Care       2/8/25     17:00       G     Air       X     Image: Sample Care       Date     Image: Sample Care       Trime     Image: Sample Care       Date     Image: Sample Care       Trime     Image: Sample Care       Date:     Image: Sample Care       Date:     Image: Sample Care       Date:     Image: Company       Primary Deliverable Rank: 2     Special Instructions are current to date, ref       Date:     Image: Company       Date:     Image: Company       Date:     Image: Company       Date:     Image: Company	Sampler:     Lab PM: Garcia, Michelle       Phone:     E-Mail:       N/A     michelle garcia@et.eurofinsu       N/A     Michelle       Duo Dete Requested:     D/19/2025       1/19/2025     N/A       PO #:     N/A       N/A     Sample       Sample Date     Sample (C=Comp, Director, Bigger B)       Sample Date     Time       2/B/25     17:00       Preservation Code:     N/A       V/A     N/A       N/A     N/A       N/A     N/A       Sample Date     17:00       Preservation Code:     N/A       V/A     N/A       N/A     N/A       South Central, LLC places the ownership of method, analyte & accreditation compliangin liad above for analysis/hestamatrix being analyzed, the samples must be shipped back to the Eurofin mg South Central, LLC places the ownership of method, analyte & accreditation compliangin liad above for analysis/hestamatrix being analyzed, the samples must be shipped back to the Eurofin mg South Central, LLC attention immediately. 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Container Type Tedlar Bag 1L

Preservative None

# Subcontract Method Instructions

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Accre	ditation:	🗆 Az Co	Level 4 (Full Validation)  pmpliance	Sampler: Br	andon S	inclair	TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	<del>?</del>	8270SIMS		NO <sub>2</sub> , PO <sub>4</sub> ,			Total Coliform (Present/Absent)	TVPH	6		
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01	If necessary	, samples su	bmitted to Hall Environmental may be sub	contracted to other a	ccredited laboratori	es This serves as notice of this	s poss	ibility	Any si	ib-con	tracted	data	will be	clear	ly nota	ited on	i the ar	nalytical re	port.	

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#### Login Sample Receipt Checklist

Client: Hilcorp Energy

#### Login Number: 19767 List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 885-19767-1

List Source: Eurofins Albuquerque

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:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	452087
	Action Type:
	[REPORT] Alternative Remediation Report (C-141AR)

CON	NDITIO	INS	
Cre By	eated		Condition Date
n١	velez	1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by July 15, 2025.	4/17/2025

CONDITIONS

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Action 452087