



October 15, 2024

New Mexico Oil Conservation Division

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

Re: Third Quarter 2024 – SVE System Update
San Juan 32-9 #41A
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: NAPP2108949980

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Third Quarter 2024 – SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the San Juan 32-9 #41A natural gas production well (Site) on land managed by the Bureau of Land Management (BLM) in Unit P, Section 31, Township 32 North, Range 9 West in San Juan County, New Mexico (Figure 1). The SVE system was put into full time operation on October 9, 2023, to remediate subsurface soil impacts resulting from approximately 15 barrels (bbls) of natural gas condensate released from an aboveground storage tank. This report summarizes Site activities performed in July, August, and September of 2024.

SVE SYSTEM SPECIFICATIONS

The SVE system at the Site consists of a 3-phase, 5 horsepower Howden Roots 32 URAI rotary lobe blower capable of producing 112 cubic feet per minute (cfm) flow at 82 inches of water column (IWC) vacuum. The system is powered by a permanent power drop and is intended to run 24 hours per day. Three SVE wells are currently in operation and are shown on Figure 2. SVE wells SVE01, SVE02, and SVE03 are screened to 16 feet below ground surface (bgs) to address residual soil impacts in the unsaturated zone.

THIRD QUARTER 2024 ACTIVITIES

The SVE system began operation on October 9, 2023. Based on the New Mexico Oil Conservation Division (NMOCD) Conditions of Approval (COAs), dated March 29, 2023, field data measurements were collected from the system biweekly throughout third quarter 2024. 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 operations and maintenance (O&M) visits are presented as Appendix A.

Since startup, all Site SVE wells were operated in order to induce flow in impacted soil zones. Between June 26 and September 24, 2024, the SVE system operated for 2,141.2 hours for a runtime efficiency of 99 percent (%). Appendix B presents photographs of the runtime meter for

calculating the third quarter 2024 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percent runtime.

Based on the March 2023 COAs, vapor samples are required to be collected from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler every other month for the second through fourth quarters of operation. Vapor samples were collected on July 30 and September 9, 2024. Prior to collection, the vapor samples were 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 Hall Environmental Analysis Laboratory (now Eurofins Environment Testing) 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. Tables 2 and 3 present a summary of field measurements and analytical data, respectively, collected between system startup and September 24, 2024. The full laboratory analytical reports are attached as Appendix C. Graphs 1 and 2 present oxygen and carbon dioxide levels over time, respectively. Vapor samples will be collected quarterly for the remainder of system operation.

Vapor sample data and measured influent flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 4). Based on these estimates, 4,234 pounds (2.12 tons) of TVPH have been removed by the system to date. No phase-separated hydrocarbons were recovered from the system during the O&M and sampling period described above.

DISCUSSION AND RECOMMENDATIONS

A decrease in overall system PID readings and associated mass removal rates has been observed since system startup, as is anticipated. As discussed in the *Second Quarter 2024 – SVE System Update*, adjustments were made in the third quarter of 2024 to attempt to focus vacuum extraction on extraction well SVE01, the location with the highest PID readings; however, following adjustments, a decrease in overall mass removal rates continued. Extraction wells SVE02 and SVE03 will be taken offline in the fourth quarter of 2024 to further focus extraction on extraction well SVE01.

Monthly O&M visits, at a minimum, and quarterly sampling events will continue to be performed by Ensolum and/or Hilcorp personnel to ensure 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.

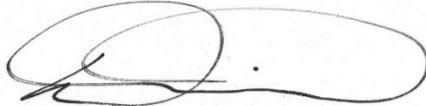
We appreciate the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this report, please contact the undersigned.

Sincerely,

Ensolum, LLC



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



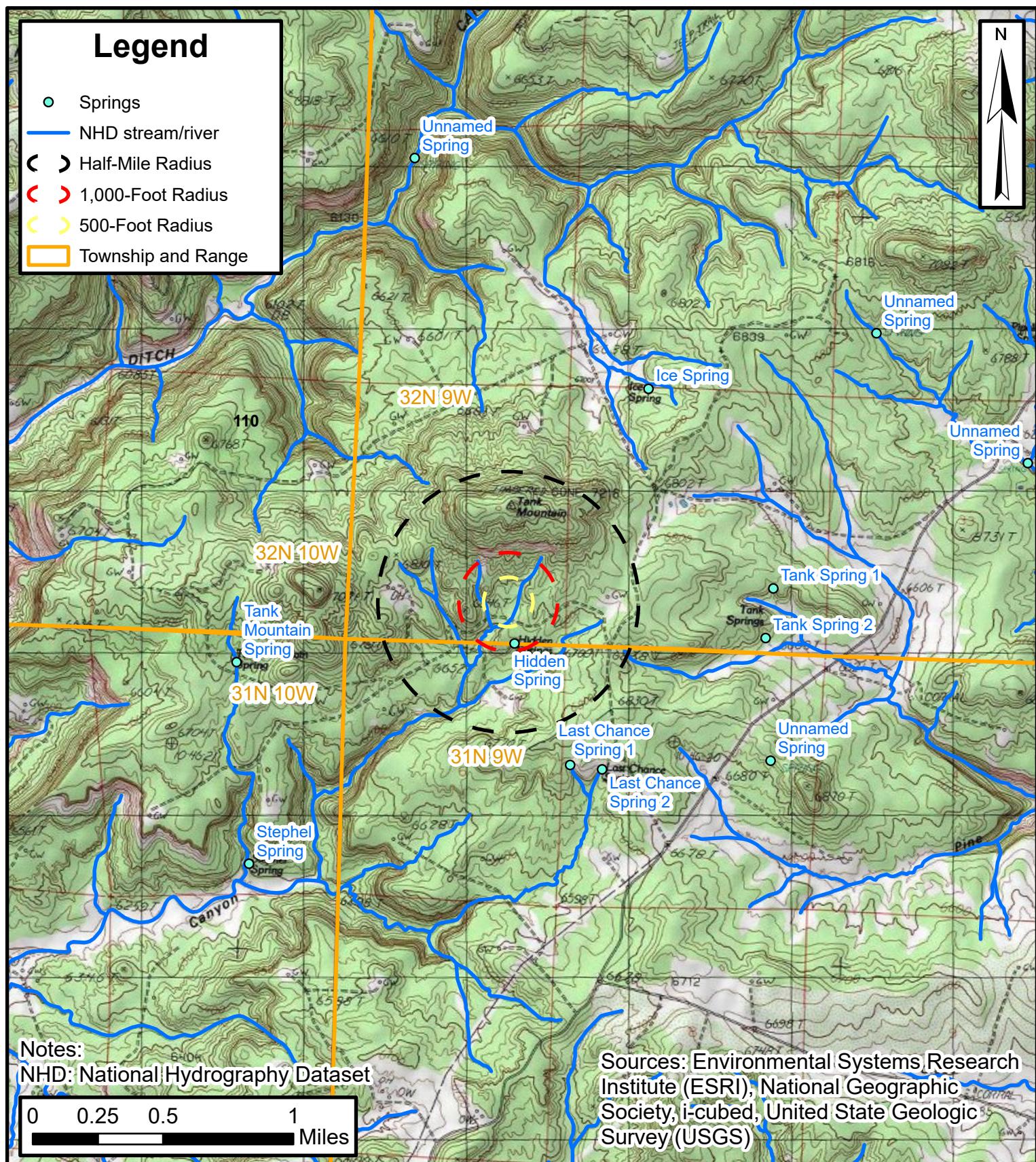
Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist
(303) 887-2946
dmoir@ensolum.com

Attachments:

- | | |
|------------|---|
| Figure 1 | Site Location Map |
| Figure 2 | SVE System Radius of Influence and Radius of 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 |



Figures



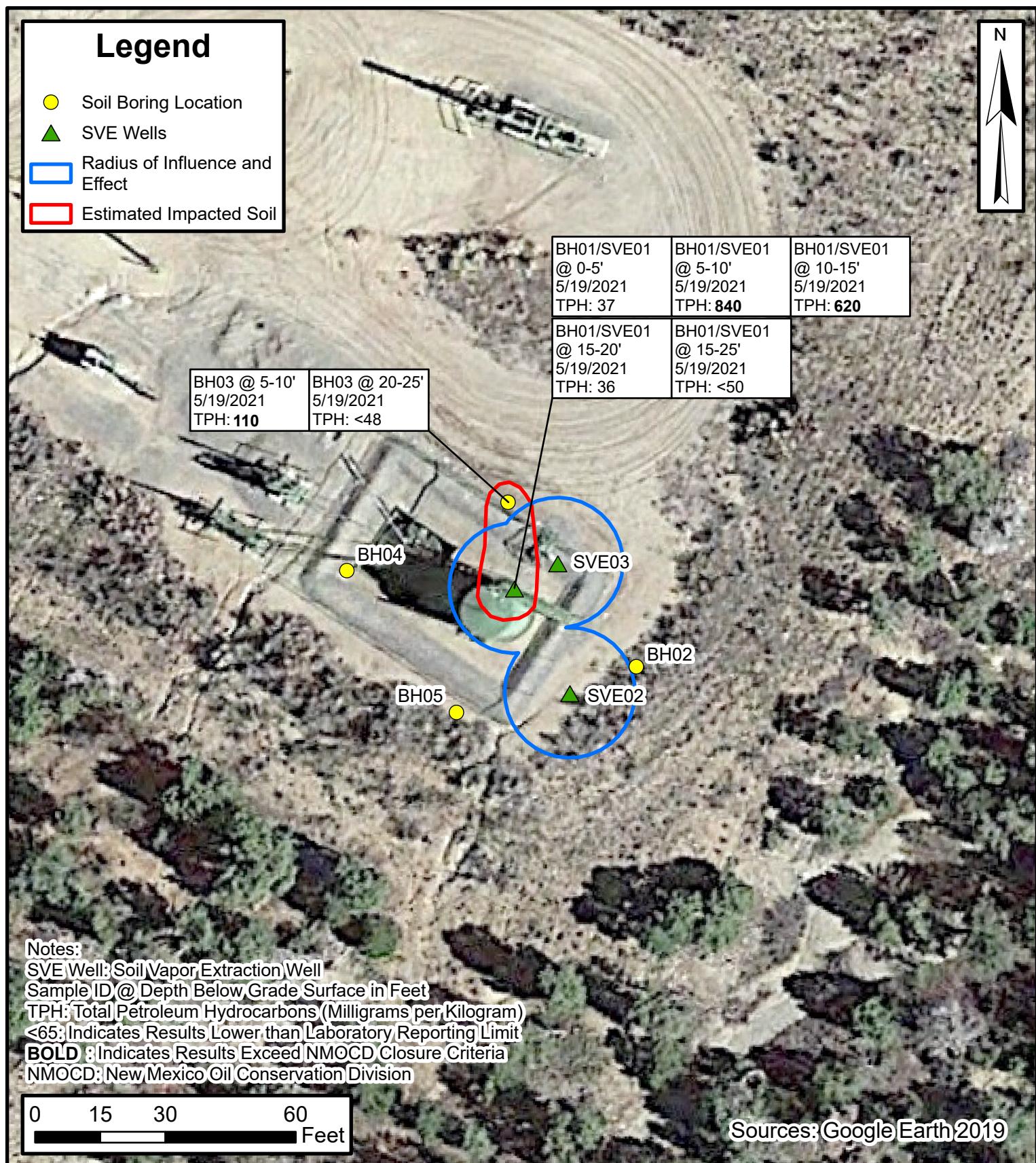
Site Location Map

San Juan 32-9 #41A
Hilcorp Energy Company

SEC 31-T32N-R9W
San Juan County, New Mexico



FIGURE
1



SVE System Radius of Influence and Radius of Effect
San Juan 32-9 #41A
Hilcorp Energy Company
SEC 31-T32N-R9W
San Juan County, New Mexico



Tables & Graphs



E N S O L U M

TABLE 1
SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS
 San Juan 32-9 #41A
 Hilcorp Energy Company
 San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours	Days	Quarterly Percent Runtime	Percent Runtime
10/9/2023	1.3			Startup	
12/28/2023	1,916.1	1,914.8	80	100%	100%
3/19/2024	3,857.0	1,940.9	82	99%	99%
6/26/2024	6,035.0	2,178.0	99	92%	96%
9/24/2024	8,176.2	2,141.2	90	99%	97%



TABLE 3
SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS
 San Juan 32-9 #41A
 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 (%)
10/9/2023	1,574	46	130	13	130	17,000	19.92%	1.81%
10/10/2023	1,483	17	73	7.6	76	13,000	20.56%	1.03%
10/19/2023	397	<5.0	39	<5.0	110	5,400	21.40%	0.42%
10/31/2023	440	<1.0	14	2.0	73	2,100	21.49%	0.35%
11/8/2023	422	<0.50	12	2.0	92	3,400	21.56%	0.28%
11/16/2023	541	<5.0	9.6	<5.0	64	2,600	21.43%	0.23%
11/28/2023	91	<0.10	0.91	0.14	6.6	350	21.67%	0.06%
12/13/2023	317	<0.50	3.3	0.60	27	1,400	21.72%	0.18%
12/28/2023	232	<0.50	2.7	0.59	23	1,400	21.56%	0.19%
1/19/2024	173	<0.50	1.3	<0.50	8.1	560	21.78%	0.17%
3/5/2024	180	0.49	9.9	<2.0	21	980	21.78%	0.21%
5/8/2024	175	<1.0	2.1	<1.0	8.4	560	21.58%	0.24%
7/30/2024	25	<1.0	1.0	<1.0	2.0	670	21.28%	0.27%
9/9/2024	19	<0.10	1.2	0.11	2.1	96 H	21.80%	0.24%

Notes:

GRO: gasoline range hydrocarbons

µg/L: microgram per liter

PID: photoionization detector

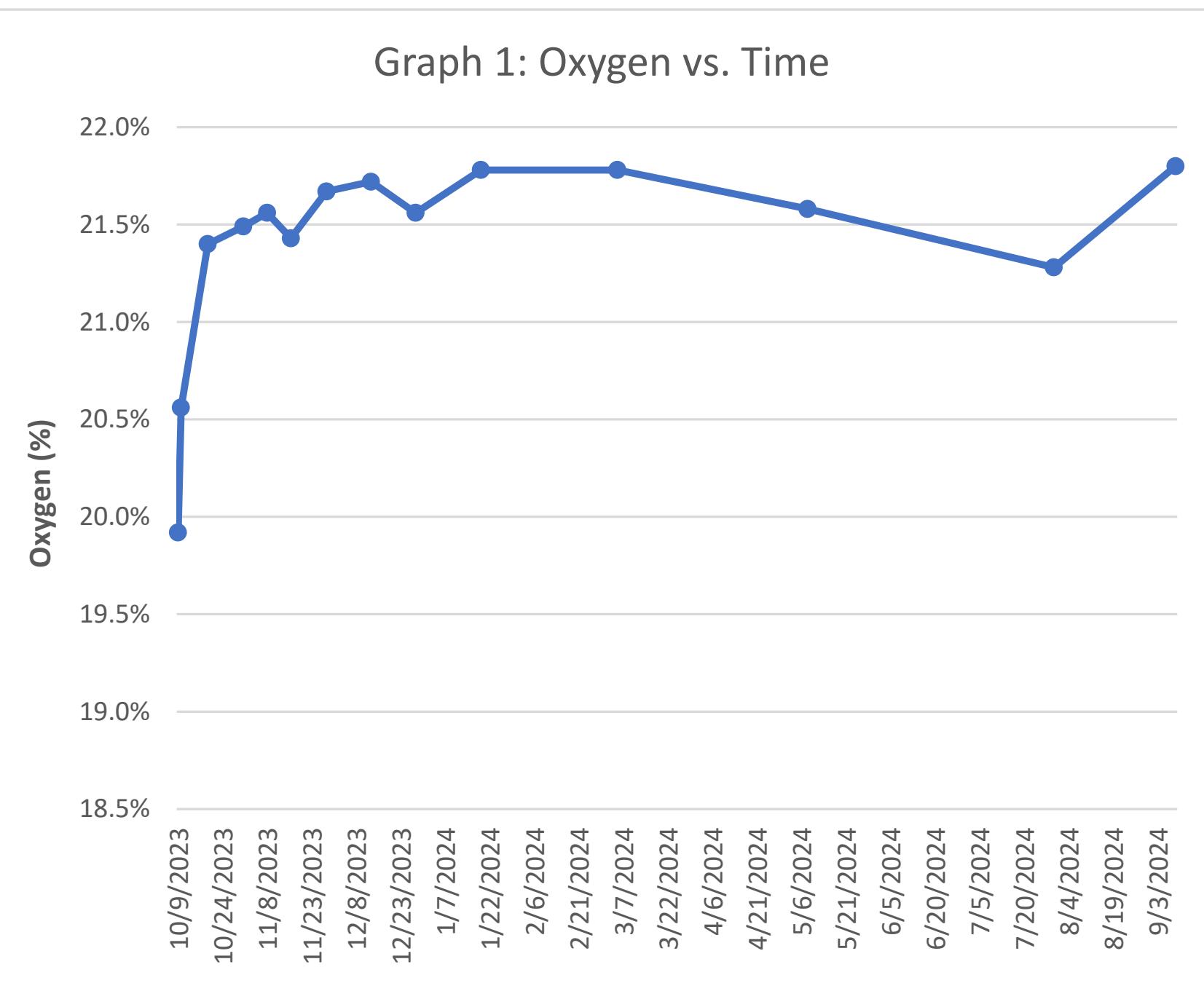
ppm: parts per million

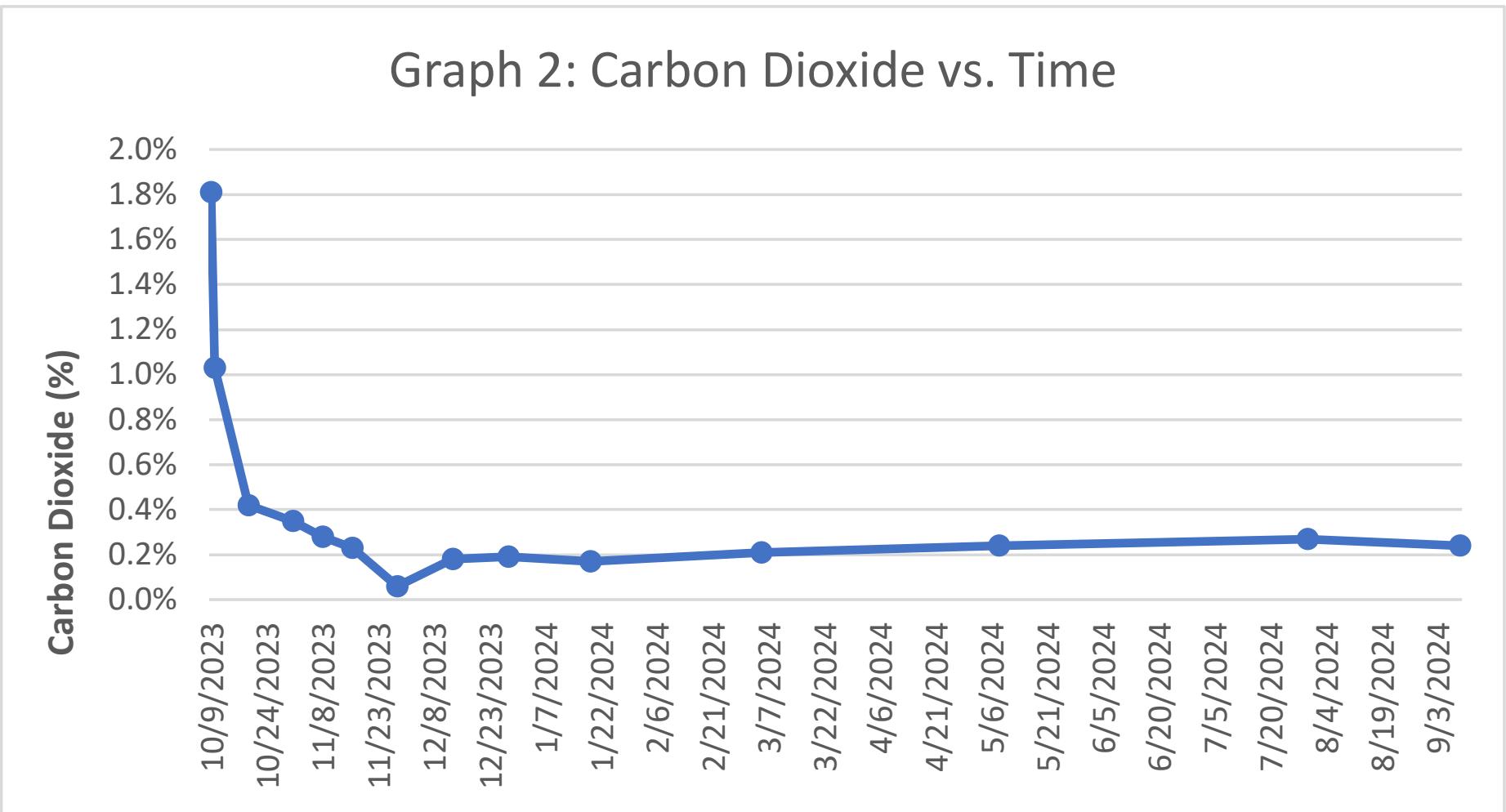
TVPH: total volatile petroleum hydrocarbons

%: percent

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

H: Sample was analyzed outside of the required hold time







APPENDIX A

Field Notes



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 7 - 11
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:	KO TANK HIGH LEVEL	
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		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	✓
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	<u>6393.8</u>	<u>1243</u>
Total Flow (scfm)		
Inlet Vacuum (IHG)	<u>7.1</u>	
Differential Pressure (IWC)	<u>2.54</u>	
Inlet PID	<u>38.6</u>	
Exhaust PID	<u>73.5</u>	
Inlet Temperature		
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	<u>88.1</u>	<u>88.8</u>	<u>-0.15</u>	<u>20.7</u>	<u>2080</u>
SVE02	<u>90.2</u>	<u>6.1</u>	<u>9.92</u>	<u>20.9</u>	<u>860</u>
SVE03	<u>84.6</u>	<u>9.5</u>	<u>0.84</u>	<u>20.9</u>	<u>1560</u>

COMMENTS/OTHER MAINTENANCE:

• SVE-02 negligible vacuum due to obstruction in rotameter
 • I removed the rotameter from the site tube, well operation normal.



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 7-30
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: KO TANK HIGH LEVEL

WEEKLY MAINTENANCE:	Blower Bearing Grease	Check/Date
QUARTERLY MAINTENANCE:	Blower Oil Change	✓

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	6876.4	1103
Total Flow (scfm)		
Inlet Vacuum (IHG)	5.2	
Differential Pressure (IWC)	4.52	
Inlet PID	25.3	
Exhaust PID	34.8	
exh Inlet Temperature	160	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID:	<u>SVE-1</u>	SAMPLE TIME: <u>1125</u>
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)	

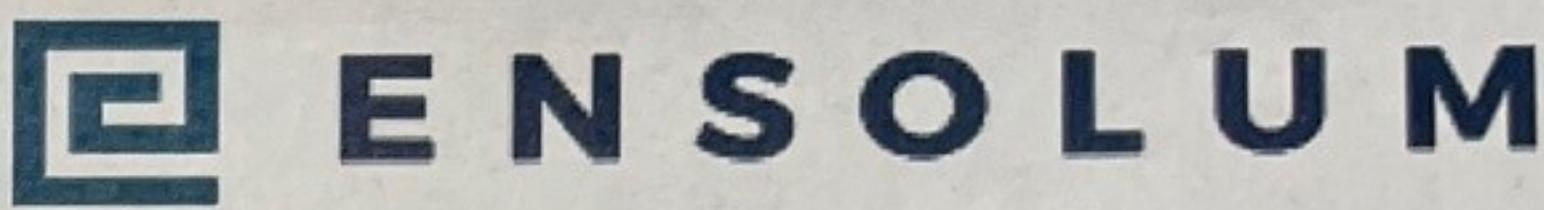
OPERATING WELLS

Change in Well Operation:

WELLHEAD MEASUREMENTS		diff pres			
WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFMT)	OXYGEN	CARBON DIOXIDE
SVE01	93.6	121.8	-0.17	20.8	158.0
SVE02	81.1	9.7	0	20.9	106.0
SVE03	86.3	29.3	1.38	20.8	114.0

COMMENTS/OTHER MAINTENANCE:

• Belt showing signs of wear
• Small amount of oil leaking } spoke with mechanic/maintenance



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 8-13
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:	KO TANK HIGH LEVEL
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WEEKLY MAINTENANCE:	Blower Bearing Grease	Check/Date
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	7185.7	1922
Total Flow (scfm)		
Inlet Vacuum (IHG)	4.9	
Differential Pressure (IWC)	4.16	
Inlet PID	18.9	
Exhaust PID	24.9	
exh Inlet Temperature	150	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

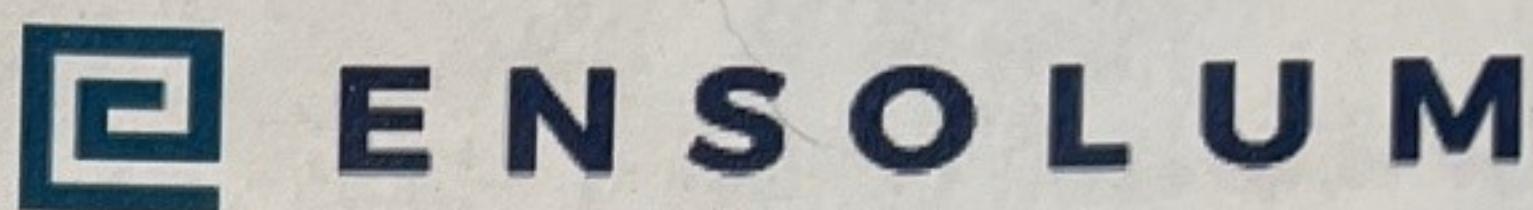
SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

Change in Well Operation:

WELLHEAD MEASUREMENTS					
WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	53.7	78.9	-0.02	20.2	3720
SVE02	55.6	5.3	-2.37	20.4	400
SVE03	57.3	6.5	-0.03	20.9	1400

COMMENTS/OTHER MAINTENANCE:

6/14/2025



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 8-22
TIME ONSITE:

O&M PERSONNEL: B Sinclair
TIME OFFSITE:

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:	KO TANK HIGH LEVEL	
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WEEKLY MAINTENANCE:	Blower Bearing Grease	Check/Date
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	<u>7385.3</u>	<u>1018</u>
Total Flow (scfm)		
Inlet Vacuum (IHG)		
Differential Pressure (IWC)		
Inlet PID		
Exhaust PID		
Inlet Temperature		
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

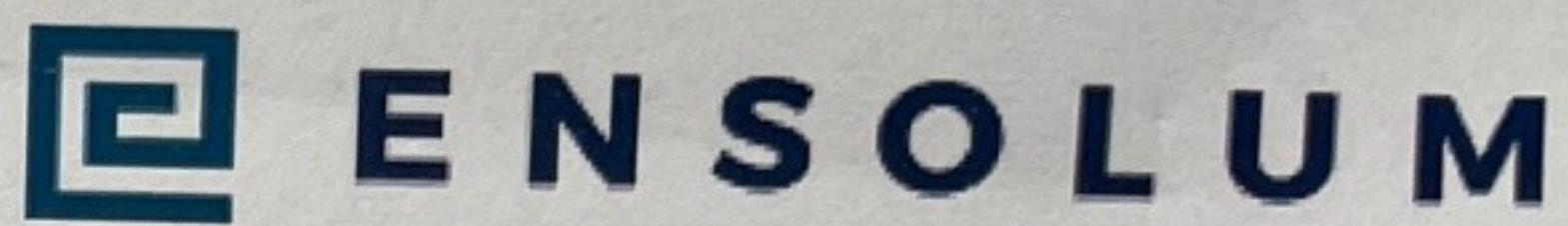
Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01					
SVE02					
SVE03					

COMMENTS/OTHER MAINTENANCE:

Power outage at site due to storm.



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 9-9
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:	KO TANK HIGH LEVEL	
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WEEKLY MAINTENANCE:	Blower Bearing Grease	Check/Date
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	7816.3	1146
Total Flow (sefm)		
Inlet Vacuum (IHG)	4.4	
Differential Pressure (IWC)	4.06	
Inlet PID	14.3	
Exhaust PID	19.1	
exh Inlet Temperature	155	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID:	<u>SVE-1</u>	SAMPLE TIME: <u>1200</u>
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)	
OPERATING WELLS		

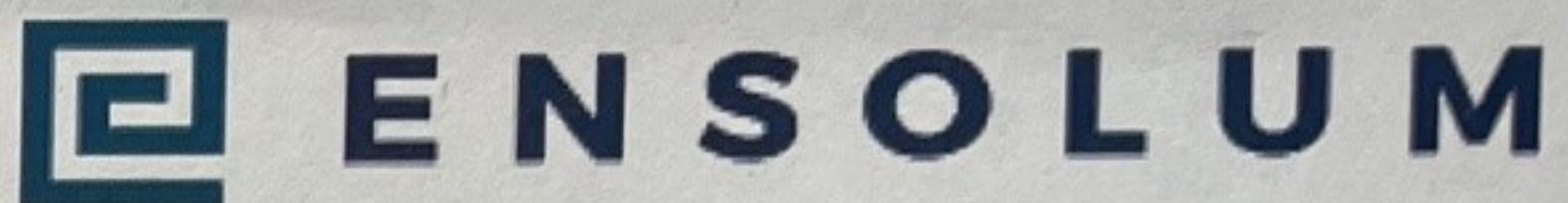
Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	46.2	60.0	-0.01	20.9	3240
SVE02	47.2	4.8	0.54	20.9	260
SVE03	49.6	4.2	1.34	20.8	1760

COMMENTS/OTHER MAINTENANCE:

--



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 9-24
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:	KO TANK HIGH LEVEL
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WEEKLY MAINTENANCE:	Blower Bearing Grease	Check/Date
QUARTERLY MAINTENANCE:	Blower Oil Change	✓

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	8176.2	1141
Total Flow (scfm)		
Inlet Vacuum (IHG)	4.0	
Differential Pressure (IWC)	4.37	
Inlet PID	19.3	
Exhaust PID	14.0	
exh Inlet Temperature	145	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)	3.5	

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	-FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	91.0	48.6	-0.02	19.4	4780
SVE02	43.2	10.5	0.57	20.7	580
SVE03	46.5	7.7	0.86	20.2	2400

COMMENTS/OTHER MAINTENANCE:

diff pres



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS
San Juan 32-9 #41A
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1

Runtime meter taken on June 26, 2024
at 11:30 AM
Hours = 6,035.0



Photograph 2

Runtime meter taken on September
24, 2024 at 11:41 AM
Hours = 8,176.2





APPENDIX C

Laboratory Analytical Reports



Environment Testing

1

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/13/2024 1:00:42 PM

JOB DESCRIPTION

SJ 32-9 Uni 41A

JOB NUMBER

885-8900-1

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



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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: SJ 32-9 Uni 41A

Laboratory Job ID: 885-8900-1

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Definitions/Glossary

Client: Hilcorp Energy
 Project/Site: SJ 32-9 Uni 41A

Job ID: 885-8900-1

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

Eurofins Albuquerque

Case Narrative

Client: Hilcorp Energy
Project: SJ 32-9 Uni 41A

Job ID: 885-8900-1

Job ID: 885-8900-1**Eurofins Albuquerque****Job Narrative
885-8900-1**

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 7/31/2024 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 24.2°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

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.

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 32-9 Uni 41A

Job ID: 885-8900-1

Client Sample ID: SVE-1
Date Collected: 07/30/24 11:25
Date Received: 07/31/24 06:30
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-8900-1
Matrix: Air

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		08/05/24 16:57		10
cis-1,2-Dichloroethene	ND		1.0	ug/L		08/05/24 16:57		10
cis-1,3-Dichloropropene	ND		1.0	ug/L		08/05/24 16:57		10
Dibromomethane	ND		1.0	ug/L		08/05/24 16:57		10
Dichlorodifluoromethane	ND		1.0	ug/L		08/05/24 16:57		10
Ethylbenzene	ND		1.0	ug/L		08/05/24 16:57		10
Hexachlorobutadiene	ND		1.0	ug/L		08/05/24 16:57		10
Isopropylbenzene	ND		1.0	ug/L		08/05/24 16:57		10
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L		08/05/24 16:57		10
Methylene Chloride	ND		3.0	ug/L		08/05/24 16:57		10
n-Butylbenzene	ND		3.0	ug/L		08/05/24 16:57		10
N-Propylbenzene	ND		1.0	ug/L		08/05/24 16:57		10
Naphthalene	ND		2.0	ug/L		08/05/24 16:57		10
sec-Butylbenzene	ND		1.0	ug/L		08/05/24 16:57		10
Styrene	ND		1.0	ug/L		08/05/24 16:57		10
tert-Butylbenzene	ND		1.0	ug/L		08/05/24 16:57		10
Tetrachloroethene (PCE)	ND		1.0	ug/L		08/05/24 16:57		10
Toluene	1.0		1.0	ug/L		08/05/24 16:57		10
trans-1,2-Dichloroethene	ND		1.0	ug/L		08/05/24 16:57		10
trans-1,3-Dichloropropene	ND		1.0	ug/L		08/05/24 16:57		10
Trichloroethene (TCE)	ND		1.0	ug/L		08/05/24 16:57		10
Trichlorofluoromethane	ND		1.0	ug/L		08/05/24 16:57		10
Vinyl chloride	ND		1.0	ug/L		08/05/24 16:57		10
Xylenes, Total	2.0		1.5	ug/L		08/05/24 16:57		10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surrogate)	101		70 - 130		08/05/24 16:57	10
Toluene-d8 (Surrogate)	96		70 - 130		08/05/24 16:57	10
4-Bromofluorobenzene (Surrogate)	101		70 - 130		08/05/24 16:57	10
Dibromofluoromethane (Surrogate)	104		70 - 130		08/05/24 16:57	10

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy
 Project/Site: SJ 32-9 Uni 41A

Job ID: 885-8900-1

GC/MS VOA**Analysis Batch: 9723**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8900-1	SVE-1	Total/NA	Air	8260B	
MB 885-9723/31	Method Blank	Total/NA	Air	8260B	
MB 885-9723/8	Method Blank	Total/NA	Air	8260B	
LCS 885-9723/4	Lab Control Sample	Total/NA	Air	8260B	

Analysis Batch: 9786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8900-1	SVE-1	Total/NA	Air	8015M/D	
MB 885-9786/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-9786/3	Lab Control Sample	Total/NA	Air	8015M/D	

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: SJ 32-9 Uni 41A

Job ID: 885-8900-1

Client Sample ID: SVE-1
Date Collected: 07/30/24 11:25
Date Received: 07/31/24 06:30

Lab Sample ID: 885-8900-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		5	9786	CM	EET ALB	08/05/24 16:07
Total/NA	Analysis	8260B		10	9723	CM	EET ALB	08/05/24 16:57

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

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Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: SJ 32-9 Uni 41A

Job ID: 885-8900-1

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

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: SJ 32-9 Uni 41A

Job ID: 885-8900-1

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	NM10001	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

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: SJ 32-9 Uni 41A

Job ID: 885-8900-1

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

Eurofins Albuquerque



ANALYTICAL SUMMARY REPORT

August 12, 2024

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

Work Order: B24080136 Quote ID: B15626

Project Name: SJ 32-9 Unit 41A 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 8/1/2024 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B24080136-001	SVE-1 (885-8900-1)	07/30/24 11:25	08/01/24	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.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: SJ 32-9 Unit 41A 88501698
Lab ID: B24080136-001
Client Sample ID: SVE-1 (885-8900-1)

Report Date: 08/12/24
Collection Date: 07/30/24 11:25
DateReceived: 08/01/24
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	21.28	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Nitrogen	78.40	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Carbon Dioxide	0.27	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Hydrogen Sulfide	<0.01	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Methane	<0.01	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Ethane	<0.01	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Propane	<0.01	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Isobutane	<0.01	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
n-Butane	<0.01	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Isopentane	<0.01	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
n-Pentane	<0.01	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Hexanes plus	0.05	Mol %		0.01	GPA 2261-95	08/05/24 10:56 / jrj	
Propane	< 0.001	gpm		0.001	GPA 2261-95	08/05/24 10:56 / jrj	
Isobutane	< 0.001	gpm		0.001	GPA 2261-95	08/05/24 10:56 / jrj	
n-Butane	< 0.001	gpm		0.001	GPA 2261-95	08/05/24 10:56 / jrj	
Isopentane	< 0.001	gpm		0.001	GPA 2261-95	08/05/24 10:56 / jrj	
n-Pentane	< 0.001	gpm		0.001	GPA 2261-95	08/05/24 10:56 / jrj	
Hexanes plus	0.021	gpm		0.001	GPA 2261-95	08/05/24 10:56 / jrj	
GPM Total	0.021	gpm		0.001	GPA 2261-95	08/05/24 10:56 / jrj	
GPM Pentanes plus	0.021	gpm		0.001	GPA 2261-95	08/05/24 10:56 / jrj	

CALCULATED PROPERTIES

Gross BTU per cu ft @ Std Cond. (HHV)	2	1	GPA 2261-95	08/05/24 10:56 / jrj
Net BTU per cu ft @ std cond. (LHV)	2	1	GPA 2261-95	08/05/24 10:56 / jrj
Pseudo-critical Pressure, psia	545	1	GPA 2261-95	08/05/24 10:56 / jrj
Pseudo-critical Temperature, deg R	240	1	GPA 2261-95	08/05/24 10:56 / jrj
Specific Gravity @ 60/60F	0.999	0.001	D3588-81	08/05/24 10:56 / jrj
Air, %	97.25	0.01	GPA 2261-95	08/05/24 10:56 / jrj

- The analysis was not corrected for air.

COMMENTS

- 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)

**QA/QC Summary Report**

Prepared by Billings, MT Branch

Client: Hall Environmental**Work Order:** B24080136**Report Date:** 08/12/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-95										Batch: R426552
Lab ID: LCS080524	11	Laboratory Control Sample				Run: GCNGA-B_240805A				08/05/24 05:25
Oxygen		0.65	Mol %	0.01	130	70	130			
Nitrogen		6.23	Mol %	0.01	104	70	130			
Carbon Dioxide		0.99	Mol %	0.01	100	70	130			
Methane		74.8	Mol %	0.01	100	70	130			
Ethane		5.84	Mol %	0.01	97	70	130			
Propane		5.03	Mol %	0.01	102	70	130			
Isobutane		1.63	Mol %	0.01	81	70	130			
n-Butane		2.00	Mol %	0.01	100	70	130			
Isopentane		1.03	Mol %	0.01	103	70	130			
n-Pentane		1.00	Mol %	0.01	100	70	130			
Hexanes plus		0.79	Mol %	0.01	99	70	130			
Lab ID: B24080136-001ADUP	12	Sample Duplicate				Run: GCNGA-B_240805A				08/05/24 11:45
Oxygen		21.3	Mol %	0.01				0.1		20
Nitrogen		78.4	Mol %	0.01				0		20
Carbon Dioxide		0.27	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

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

Hall Environmental

B24080136

Login completed by: Lyndsi E. LeProwse

Date Received: 8/1/2024

Reviewed by: cjohnson

Received by: KOF

Reviewed Date: 8/9/2024

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: 22.1°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

ICOC No:
885-1444

Containers Count
1
Tedlar Bag 1L

Preservative
None

Subcontract Method Instructions

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

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Chain-of-Custody RecordClient: Hilcorp

<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush							
Project Name:	<u>ST 32-9 Unit 41A</u>							
Mailing Address:								
Phone #:								
QA/QC Package:	<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Level 4 (Full Validation)							
Accreditation:	<input type="checkbox"/> Az Compliance <input type="checkbox"/> Other							
EDD (Type)								
Project Manager: <u>Kate Kaufman</u>								
Sampler: <u>Brandon Sinclair</u>								
On ice:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
# of Coolers:	<u>1</u>							
Cooler Temp (including CP): <u>24.1 ± 0.1 °C</u>								
Date	Time	Matrix	Sample Name	Container Type and #	Preservative	Type	HEAL No.	Remarks:
10/25/2024	11:25	air	SVE-1	2 Teflon				
Date, Time:	Relinquished by:		Received by:	Via:	Date	Time		
10/21/24 15:00	<u>YC Smith</u>		<u>JH Hines</u>	<u>JH Hines</u>	<u>10/24/24</u>	<u>15:46</u>		
Date, Time:	Relinquished by:		Received by:	Via:	Date	Time		
10/24/24 17:30	<u>John White</u>		<u>Via Courier</u>	<u>Via Courier</u>	<u>10/24/24</u>	<u>18:30</u>	<u>24</u>	

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 noted on the analytical report.

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Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-8900-1

Login Number: 8900**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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/4/2024 12:36:52 PM

JOB DESCRIPTION

SJ 32-9 41A

JOB NUMBER

885-11586-1

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



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10/4/2024 12:36:52 PM

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

Client: Hilcorp Energy
Project/Site: SJ 32-9 41A

Laboratory Job ID: 885-11586-1

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Definitions/Glossary

Client: Hilcorp Energy
 Project/Site: SJ 32-9 41A

Job ID: 885-11586-1

Qualifiers**GC/MS VOA**

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Listed under the "D" column to designate that the result is reported on a dry weight basis
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

Eurofins Albuquerque

Case Narrative

Client: Hilcorp Energy
Project: SJ 32-9 41A

Job ID: 885-11586-1

Job ID: 885-11586-1**Eurofins Albuquerque****Job Narrative
885-11586-1**

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 9/11/2024 7:30 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 20.5°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

Method 8015D_GRO_MS: Surrogate 4-BFB for GRO [C6-C10] recovery for the following sample was outside control limits: (CCV 885-12872/2). 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.

GC/MS VOA

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

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 32-9 41A

Job ID: 885-11586-1

Client Sample ID: SVE-1
Date Collected: 09/09/24 12:00
Date Received: 09/11/24 07:30
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-11586-1

Matrix: Air

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30	ug/L		09/23/24 23:33		1
cis-1,2-Dichloroethene	ND		0.10	ug/L		09/23/24 23:33		1
cis-1,3-Dichloropropene	ND		0.10	ug/L		09/23/24 23:33		1
Dibromomethane	ND		0.10	ug/L		09/23/24 23:33		1
Dichlorodifluoromethane	ND		0.10	ug/L		09/23/24 23:33		1
Ethylbenzene	0.11		0.10	ug/L		09/23/24 23:33		1
Hexachlorobutadiene	ND		0.10	ug/L		09/23/24 23:33		1
Isopropylbenzene	ND		0.10	ug/L		09/23/24 23:33		1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L		09/23/24 23:33		1
Methylene Chloride	ND		0.30	ug/L		09/23/24 23:33		1
n-Butylbenzene	ND		0.30	ug/L		09/23/24 23:33		1
N-Propylbenzene	ND		0.10	ug/L		09/23/24 23:33		1
Naphthalene	ND		0.20	ug/L		09/23/24 23:33		1
sec-Butylbenzene	ND		0.10	ug/L		09/23/24 23:33		1
Styrene	ND		0.10	ug/L		09/23/24 23:33		1
tert-Butylbenzene	ND		0.10	ug/L		09/23/24 23:33		1
Tetrachloroethene (PCE)	ND		0.10	ug/L		09/23/24 23:33		1
Toluene	1.2		0.10	ug/L		09/23/24 23:33		1
trans-1,2-Dichloroethene	ND		0.10	ug/L		09/23/24 23:33		1
trans-1,3-Dichloropropene	ND		0.10	ug/L		09/23/24 23:33		1
Trichloroethene (TCE)	ND		0.10	ug/L		09/23/24 23:33		1
Trichlorofluoromethane	ND		0.10	ug/L		09/23/24 23:33		1
Vinyl chloride	ND		0.10	ug/L		09/23/24 23:33		1
Xylenes, Total	2.1		0.15	ug/L		09/23/24 23:33		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surrogate)	87		70 - 130		09/23/24 23:33	1
Toluene-d8 (Surrogate)	113		70 - 130		09/23/24 23:33	1
4-Bromofluorobenzene (Surrogate)	111		70 - 130		09/23/24 23:33	1
Dibromofluoromethane (Surrogate)	93		70 - 130		09/23/24 23:33	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 32-9 41A

Job ID: 885-11586-1

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

Lab Sample ID: LCS 885-12819/4

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 12819

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

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QC Association Summary

Client: Hilcorp Energy
 Project/Site: SJ 32-9 41A

Job ID: 885-11586-1

GC/MS VOA**Analysis Batch: 12819**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11586-1	SVE-1	Total/NA	Air	8260B	
MB 885-12819/5	Method Blank	Total/NA	Air	8260B	
MB 885-12819/6	Method Blank	Total/NA	Air	8260B	
LCS 885-12819/4	Lab Control Sample	Total/NA	Air	8260B	

Analysis Batch: 12872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11586-1	SVE-1	Total/NA	Air	8015M/D	
MB 885-12872/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-12872/3	Lab Control Sample	Total/NA	Air	8015M/D	
885-11586-1 DU	SVE-1	Total/NA	Air	8015M/D	

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: SJ 32-9 41A

Job ID: 885-11586-1

Client Sample ID: SVE-1
Date Collected: 09/09/24 12:00
Date Received: 09/11/24 07:30

Lab Sample ID: 885-11586-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		10	12872	CM	EET ALB	09/23/24 17:30
Total/NA	Analysis	8260B		1	12819	CM	EET ALB	09/23/24 23:33

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: SJ 32-9 41A

Job ID: 885-11586-1

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

Eurofins Albuquerque



ANALYTICAL SUMMARY REPORT

September 18, 2024

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

Work Order: B24091170 Quote ID: B15626

Project Name: SJ 32-9 41A 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 9/12/2024 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B24091170-001	SVE-1 (885-11586-1)	09/09/24 12:00	09/12/24	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.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental **Work Order:** B24091170 **Report Date:** 09/18/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95								Batch: R428958	
Lab ID:	B24091168-001ADUP								Run: GCNGA-B_240916A	
Oxygen	12	Sample Duplicate	Mol %	0.01				0.2	20	5
Nitrogen			Mol %	0.01				0.1	20	6
Carbon Dioxide			Mol %	0.01				0.0	20	7
Hydrogen Sulfide			Mol %	0.01				20		8
Methane			Mol %	0.01				20		9
Ethane			Mol %	0.01				20		10
Propane			Mol %	0.01				20		11
Isobutane			Mol %	0.01				20		
n-Butane			Mol %	0.01				20		
Isopentane			Mol %	0.01				20		
n-Pentane			Mol %	0.01				20		
Hexanes plus			Mol %	0.01				0.0	20	
Lab ID:	LCS091624								Run: GCNGA-B_240916A	
Oxygen	11	Laboratory Control Sample	Mol %	0.01	126	70	130		09/16/24 02:25	
Nitrogen			Mol %	0.01	98	70	130			
Carbon Dioxide			Mol %	0.01	100	70	130			
Methane			Mol %	0.01	100	70	130			
Ethane			Mol %	0.01	102	70	130			
Propane			Mol %	0.01	102	70	130			
Isobutane			Mol %	0.01	71	70	130			
n-Butane			Mol %	0.01	100	70	130			
Isopentane			Mol %	0.01	101	70	130			
n-Pentane			Mol %	0.01	101	70	130			
Hexanes plus			Mol %	0.01	99	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Work Order Receipt Checklist

Hall Environmental

B24091170

Login completed by: Gina McCartney

Date Received: 9/12/2024

Reviewed by: mstephens

Received by: DNH

Reviewed Date: 9/13/2024

Carrier name: FedEx NDA

Shipping container/coolers in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? <small>(Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)</small>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	18.1°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

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

ICOC No:
885-1927

Containers
Count
1
Container Type
Tedlar Bag 1L

Preservative
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

Turn-Around Time:
 Standard Rush

Mailing Address:

Project #: SJ 32-9 41A

Phone #:

email or Fax#: brandon.sinclair@hilcorp.com

QA/QC Package:
 Standard Level 4 (Full Validation)Accreditation:
 NELAC Other EDD (Type)

Sampler: Brandon Sinclair

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 20°C to 25°C (°C)

Date Time Matrix Sample Name

Container Type and # Preservative Type HEAL No.

BTEx / MTBE / TMB's (8021)	✓	✓	✓
TPH:8015D(GRO / DRO / MRO)	✓	✓	✓
8081 Pesticides/8082 PCB's	✓	✓	✓
EDB (Method 504.1)	✓	✓	✓
PAHS by 8310 or 8270SIMS	✓	✓	✓
RCRA 8 Metals	✓	✓	✓
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	✓	✓	✓
8260 (VOA)	✓	✓	✓
8270 (Semi-VOA)	✓	✓	✓
Total Coliform (Present/Absent)	✓	✓	✓
Fixed gas O ₂ & CO ₂	✓	✓	✓
SO ₂ TSPH	✓	✓	✓

Date: 9-12-00	Time: 11:03	Received by: YNN	Via: Mail	Date: 9/16/24	Time: 14:33
Date: 10/10/24	Time: 11:11	Received by: JWW	Via: Mail	Date: 10/4/24	Time: 14:30

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

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Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-11586-1

Login Number: 11586**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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 392656

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 392656
	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 January 15, 2025.	10/25/2024