

July 9, 2024

Mr. Nelson Velez, Environmental Specialist – Advanced New Mexico Oil Conservation Division – District 3 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: Status Report – 2nd Quarter 2024

Fifield 5 No. 1 (SE ¼, SW ¼, Sec. 5, T29N, R11W)

Hilcorp Energy Company San Juan County, New Mexico OCD Incident No. NVF1718155324

Dear Mr. Velez:

On behalf of Hilcorp Energy Company (Hilcorp), Timberwolf Environmental, LLC (Timberwolf) presents this report to document activities conducted during the 2nd quarter of 2024 (2Q24) at the Fifield 5 No. 1 (Site). The Site is a plugged well site in northeast San Juan County, New Mexico (Figures 1 through 3).

Environmental Setting and Site Geology

The area immediately surrounding the Site consists of sparse vegetative cover comprised primarily of scrub brush. Area topography consists of ridges divided by shallow valleys with intermittent streams that flow south into the San Juan River. The Site is situated east of an unnamed mesa, with an average Site elevation of approximately 5,786 feet (ft). The nearest waterway is an unnamed intermittent stream located approximately 1,350 ft west of the Site. The intermittent stream empties into the San Juan River, approximately 3.4 miles south of the Site.

According to the U.S. Department of Agriculture – Natural Resources Conservation Service (USDANRCS), the Site soil consists of the Gypsiorthids-Badland-Stumble complex, with 5 to 30 percent slopes. The surface layer consists of sandy loam, underlain by lithic bedrock encountered between 16 to 20 inches below ground surface (bgs). Native salinity of the soil is very slightly saline to slightly saline (2.0 to 4.0 millimhos per centimeter (mmhos/cm)).



Site History

Release Event

The Fifield 5 No. 1 well has been plugged and all surface equipment removed from the Site; however, Hilcorp's Hali Meador #005R is located immediately west of the Site and remains active. Historically, the Site has consisted of a wellhead, line heater, and separator with the associated below-grade tank (BGT) for produced water, sales meter, and tank battery comprised of one above-ground storage tank (AST) and one BGT. On approximately 06/01/17, removal and closure of the BGT revealed historical contamination beneath the BGT. All surface equipment was removed, and the well was plugged and abandoned.

Investigation and Site Characterization

Initial assessment efforts were conducted by Rule Engineering, LLC (Rule), a subcontractor of ConocoPhillips Company (ConocoPhillips). Hilcorp acquired the property in 2017 and Rule conducted additional assessments in 2018. All findings by Rule Engineering are documented in Timberwolf's *Site Characterization and Remedial Action Plan*, dated February 28, 2019. The initial assessment identified the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH).

On March 20, 2019, additional borings were installed at the Site to delineate petroleum hydrocarbon impacts vertically and horizontally in soil. All findings are documented in Timberwolf's *Site Characterization Report and Remedial Action Plan*, dated June 14, 2019.

Remediation – SVE System

In 2019, Hilcorp installed a soil vapor extraction (SVE) system to treat impacted soil related to historical pit tank releases. The SVE system is comprised of 18 SVE wells, 6 vent wells, and an SVE trailer (housing: control valves, flow and vacuum gauges, manifolds, fluid-air separator, automated controls, and a vacuum pump). The system remained inoperative while awaiting a power source.

In September 2021, Hilcorp installed a power source for the SVE system. The power source is a skid-mounted gas-fired motor with a pulley and belt drive apparatus to transfer power to a vacuum pump. The new vacuum pump was plumbed into the existing SVE trailer; the automation system was bypassed so that all legs remained open.

Work conducted at this Site is documented in the following reports:

- Site Characterization and Remedial Action Plan, dated 02/28/19
- Site Characterization and Remedial Action Plan, dated 07/14/19
- Status Report 1st Quarter 2020, dated 09/20/21
- Status Report 2nd Quarter 2020, dated 09/27/21
- Status Report 3rd Quarter 2020, dated 09/27/21
- Status Report 4th Quarter 2020, dated 09/27/21
- Status Report 1st Quarter 2021, dated 09/27/21



- Status Report 2nd Quarter 2021, dated 09/27/21
- Status Report 3rd Quarter 2021, dated 11/01/21
- Status Report 4th Quarter 2021, dated 01/29/22
- Status Report 1st Quarter 2022, dated 04/15/22
- *Status Report 2nd Quarter 2022*, dated 07/14/22
- Status Report 3rd Quarter 2022, dated 10/14/22
- *Status Report 4th Quarter 2022*, dated 01/13/23
- *Status Report 1st Quarter 2023*, dated 04/14/23
- *Status Report 2nd Quarter 2023*, dated 07/13/23
- Status Report 3rd Quarter 2023, dated 10/11/23
- Status Report 4th Quarter 2023, dated 01/08/24
- Status Report 1st Quarter 2024, dated 04/11/24.

SVE System Operations

The SVE system is equipped with four independent legs (i.e., Leg 1, Leg 2, Leg 3, and Leg 4). Leg 1 provides vacuum to the shallow wells and Legs 2, 3, and 4 provide vacuum extraction to the deep SVE wells. On 04/19/24, Hilcorp personnel installed an electrical power inverter to power the System's automation. The automation was activated on 04/19/24.

On 05/13/24, Timberwolf personnel programmed the automation panel to oscillate between Legs 1, 2, 3, and 4 every 6 hours for continuous 24-hr operations. The SVE wells were configured as shown in Figure 4. Programmed runtimes are presented in Tables 1 below.

Table 1. Programmed Runtimes and Leg Configurations

Leg	SVE Wells and Location	Scheduled Runtime
Leg 1	Shallow SVE Wells S1, S2, S3 and S4 Central and Western side of treatment zone	6 hours
Leg 2	Deep SVE Wells W1, W5, W6, and W7 Central and Western side of treatment zone	6 hours
Leg 3	Deep SVE Wells W8, W11, W12 and W13 Southern side of treatment zone	6 hours
Leg 4	Deep SVE Wells W3, W4, W9, W10, and W14 Eastern side of treatment zone	6 hours

SVE – soil vapor extraction Shallow Well Depth – 7 to 10 ft. Deep Well Depth – 25 to 35 ft.

Water and condensate are recovered with a moisture separator, which is fitted with a 1-inch PVC pipe to transfer fluids to an open-top tank fitted with bird netting. No water or condensate was recovered during 2Q24 operation and maintenance (O&M) events and sampling period. SVE system runtime for 2Q24 is documented in Table 2 below.



Table 2. System Runtime - 2Q24

Date	Hour Meter
03/22/24	2,512
04/05/2024	2,846
04/19/2024	3,182
05/13/2024	3,756
05/28/2024	4,119
06/06/2024	4,333
06/26/2024	4,813
Total Runtime	2,301

System runtime between the last 1Q24 reading (03/22/24) and the latest 2Q24 reading (06/26/24) was 2,301 hours. The total hours available during this period was 2,301 hours; therefore, yielding a runtime percentage (%) of 100.0 for 2Q24. Cygnet telemetry data also reveals continuous operation throughout the quarter. Photographs of relevant meter readings are documented in the attached Photographic Log.

During 2Q24, Hilcorp personnel conducted five (5) operational checks and Timberwolf personnel conducted one (1) operational check for a total of six (6) operational checks for the quarter. Additionally, three (3) coinciding maintenance events were conducted to perform the following activities:

- Installed a power inverter to power the automation system
- Replaced 11 vacuum hoses on the SVE system
- Program System automation

A field log of O&M events and maintenance performed is provided in the attached Table A-1.

Collection and Analysis of Quarterly Soil-Gas Sample

On 05/28/24, a composite soil-gas sample was collected from the SVE system's four Legs. A vacuum pump was connected to the SVE trailer sampling port, which is situated downstream of the 4-leg manifold and upstream of the air-water separator. The sampling port valve was opened once the pump was activated to purge air within the tubing between the sampling port and Tedlar® bag. After purging, the Tedlar® bag valve was opened to collect the air sample.

The soil-gas sample (i.e., SVE-1) was transported to Eurofins Albuquerque, formerly Hall Environmental and Analytical Laboratory (HEAL), in Albuquerque, New Mexico. Eurofins Albuquerque analyzed the sample for volatile organic compounds (VOCs) and subcontracted other gas analyses to Energy Laboratories in Billings, Montana. All sample transfers were conducted under proper chain-of-custody protocol.

The sample was analyzed for VOCs using EPA Method 8260B, Organic Compounds (GC) by GPA 2261-95, and Gasoline Range Organics by EPA Method 8015D. The laboratory report and chain-of-custody documents are attached.



Laboratory results of constituents that exceeded laboratory detection limits are presented in Table 3; analytical results of all constituents are presented in the attached Table A-2.

Table 3. Quarterly Soil-Gas Analysis - 05/28/24

Constituents	SVE-1			
Volatile Organic Compounds (mg/m³)				
Benzene	2.0			
Toluene	17			
Ethylbenzene	1.8			
Isopropyl benzene	0.44			
N-Propylbenzene	0.57			
Total Xylenes	25			
1,2,4-Trimethylbenzene	2.7			
1,3,5-Trimethylbenzene	2.4			
Gasoline Range (mg/m³)				
TPH (GC-MS) Low Fraction (i.e., GRO)	750			
Gases (Mol %)				
Oxygen	21.89			
Carbon Dioxide	0.08			

mg/m³ - milligrams per cubic meter, equivalent to ug/L

TPH - total petroleum hydrocarbons

GC-MS - gas chromatography-mass spectrometry

GRO – gasoline range organics

Mol % - mole percent

Mass Removal

Timberwolf used the laboratory results from the soil-gas analysis (as reported in Table 3), flow rates, and runtimes to calculate constituent mass removal. Mass removal of GRO, BTEX, and associated recovered volumes for 2Q24 are presented in Table 4 below.

Table 4. Mass Removal and Associated Volume - 2Q24

Constituent	Mass Removal (kg) ¹	Total Mass Removed (lbs) ²	Recovered Volume (bbl)
GRO	170.35	374.78	1.39
Benzene	0.45	1.00	0.00
Toluene	3.86	8.49	0.03
Ethylbenzene	0.41	0.90	0.00
Xylenes	5.68	12.49	0.05

¹ Calculation = minutes ran * CFM * Concentration (mg/m³) * 1 M³/35.3147 ft³ *1 g/1000 mg * 1 kg/1000 g

GRO = from TPH (GC/MS) Low Fraction (i.e., gasoline range organics)

kg – kilograms

lbs - pounds

bbl – barrel

Assumptions:

• API Gravity = 52



² Calculation = [Mass Removal] * 2.2 lbs/kg

- Concentrations of VOCs in soil-gas vapors have remained static throughout the quarter
- Runtime calculations based on hour meter readings from 03/22/24 to 06/26/24 and Cygnet telemetry data.

Summary

System runtime during 2Q24 was 100% based on hour meter readings between 03/22/24 and 06/26/24; Cygnet telemetry data confirms continuous operation throughout the quarter.

During 2Q24, no water and/or condensate were recovered during O&M events. Additionally, mass removal calculations indicated the following recovery during the quarter:

- 1.39 bbl of GRO
- 1.00 lbs of benzene
- 8.49 lbs of toluene
- 0.90 lbs of ethylbenzene
- 12.49 lbs of xylene.

Further Actions - 3rd Quarter 2024

During 3Q24, the following activities are planned for the Site:

- Conduct bi-weekly Site O&M to ensure proper system function and drain any water/condensate accumulation in the moisture separator as needed
- Collect a quarterly soil-gas sample for laboratory analysis
- Prepare a 3Q24 status report.

If you have any questions regarding this report, please call us at (979) 324-2139.

Sincerely,

Timberwolf Environmental, LLC

Vuja

Brandon Wiesinger

Staff Scientist

Jim Foster

for that

President

Attachments: Figures

Attached Tables
Photographic Log

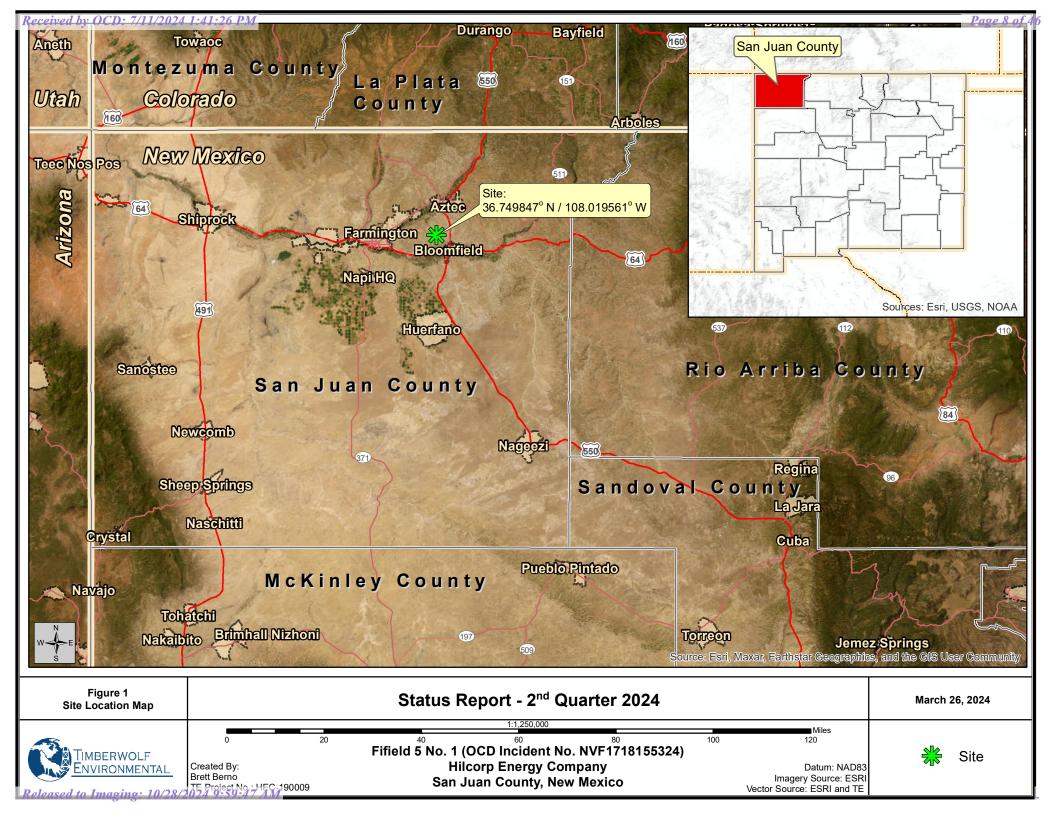
Laboratory Report and Chain-of-Custody Documents

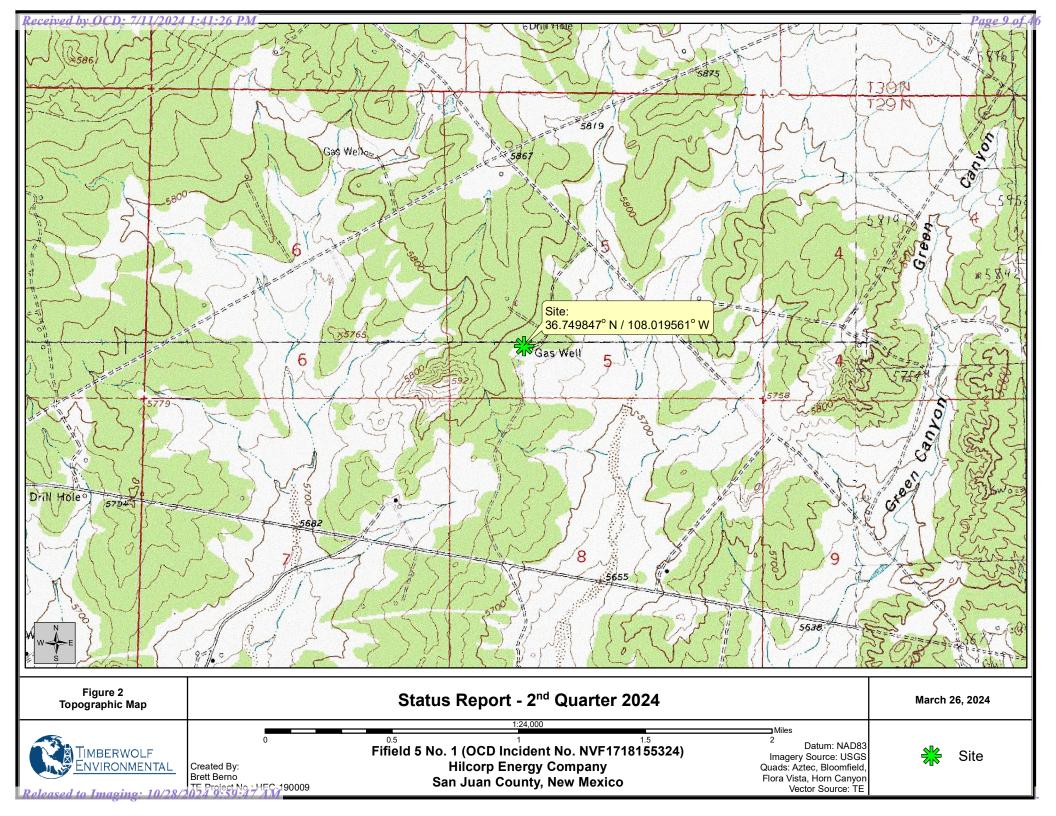
cc: Mitch Killough, Hilcorp Energy Company

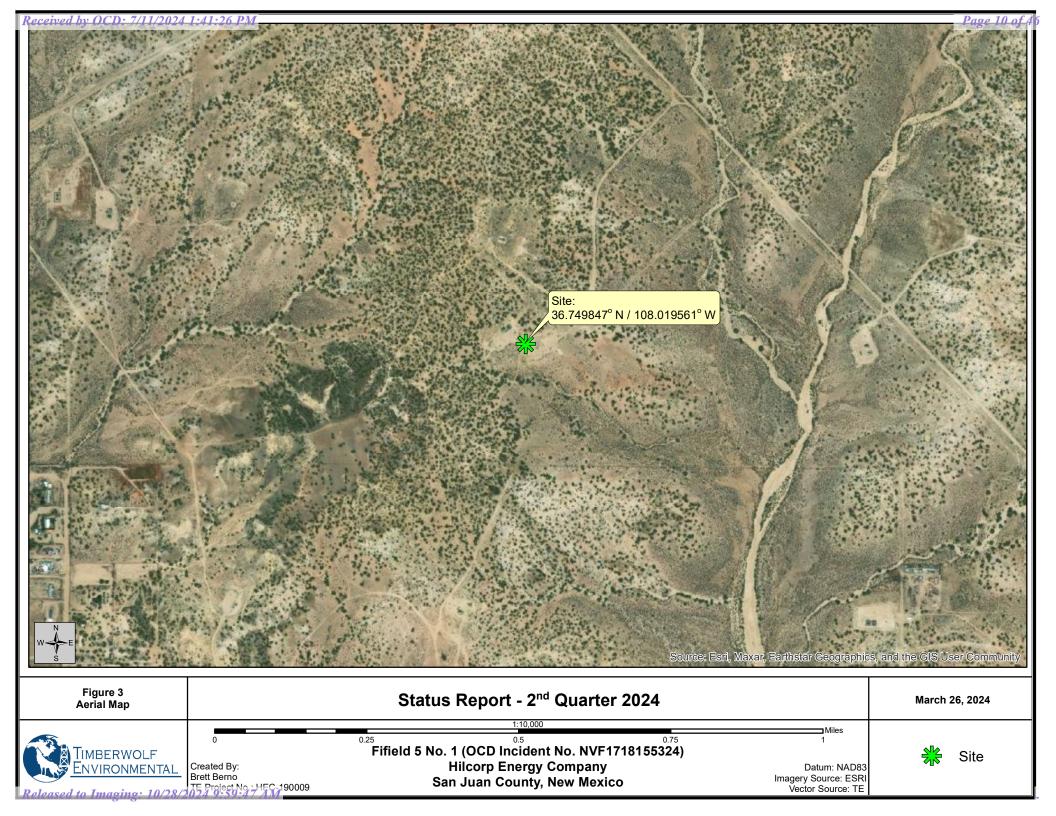


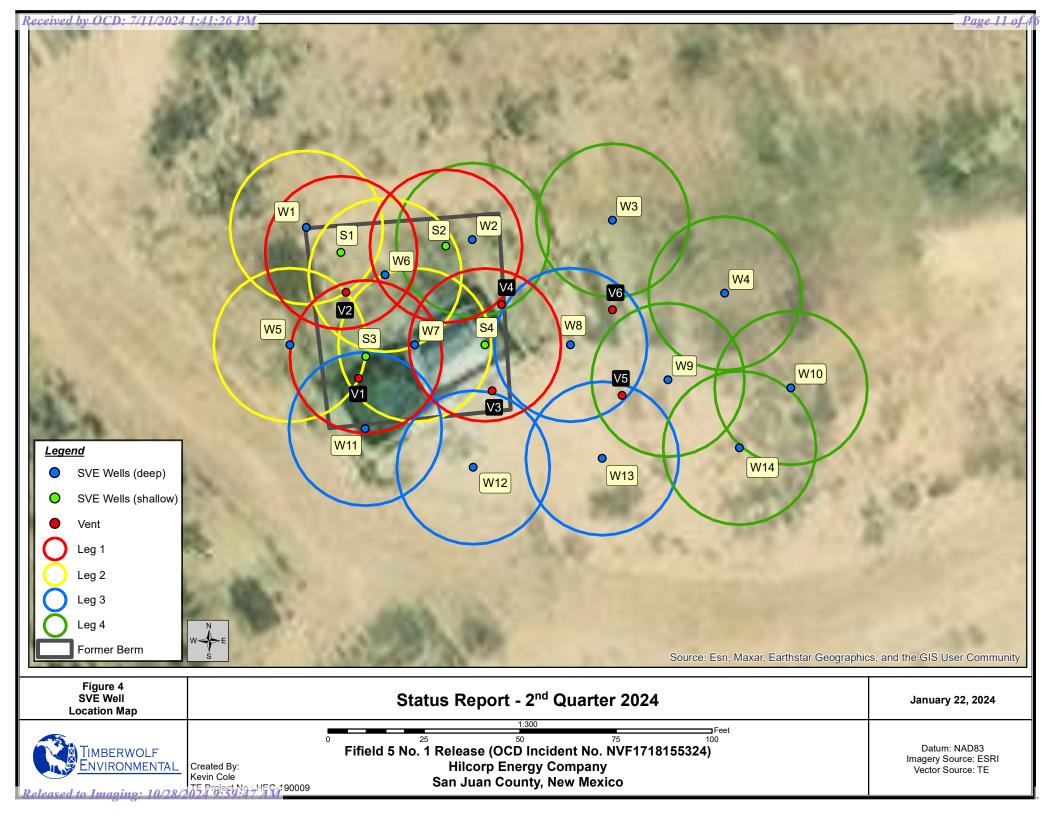
Figures











Attached Tables



Table A-1. Operation and Maintenance Events Status Report - 2nd Quarter 2024 Fifield 5 No. 1 (OCD Incident No. NVF1718155324) San Juan County, New Mexico

Date	Hour Meter (hrs)	Water/Condenstate Recovered (gal)	Maintenance Performed	
04/05/24	2,846	0	Brandon Sinclair with Hilcorp performed SVE system O&M checks. Hilcorp personnel noted that four broken vacuum hoses were replaced.	
04/19/24	3,182	0	Brandon Sinclair with Hilcorp performed SVE system O&M checks. Hilcorp personnel noted that seven broken vacuum hoses were replaced, an inverter and control unit installed.	
05/13/24	3,756	0	Jim Foster and Chris O'Brien with Timberwolf Environmental performed SVE system O&M checks.	
05/28/24	4,119	0	Brandon Sinclair with Hilcorp performed SVE system O&M checks. Hilcorp personnel noted gauge 4 on leg 1 was not functional.	
06/06/24	4,333	0	Brandon Sinclair with Hilcorp performed SVE system O&M checks.	
06/26/24	4,813	0	Brandon Sinclair with Hilcorp performed SVE system O&M checks.	

gal – gallons

hrs – hours

-- - not collected

Table A-2. Soil-Gas Analysis - 05/28/24 Status Report - 2nd Quarter 2024 Fifield 5 No. 1 (OCD Incident No. NVF1718155324) San Juan County, New Mexico

Constituents	SVE-1		
Volatiles (µg/m³)			
Acetone	< 5,000		
Benzene	2,000		
Bromodichloromethane	< 500		
Bromoform	< 500		
Bromomethane	< 1,500		
Carbon disulfide	< 5,000		
Carbon tetrachloride	< 500		
Chlorobenzene	< 500		
Chloroethane	< 1,000		
Chloroform	< 500		
Chloromethane	< 1,500		
2-Chlorotoluene	< 500		
Dibromochloromethane	< 500		
1,2-Dibromoethane	< 500		
1,2-Dichlorobenzene	< 500		
1,3-Dichlorobenzene	< 500		
1,4-Dichlorobenzene	< 500		
1,2-Dichloroethane	< 500		
1,1-Dichloroethane	< 500		
1,1-Dichloroethene	< 500		
cis-1,2-Dichloroethene (cis-1,2-DCE)	< 500		
trans-1,2-Dichloroethene (trans-1,2-DCE)	< 500		
1,2-Dichloropropane	< 500		
cis-1,3-Dichloropropene	< 500		
trans-1,3-Dichloropropene	< 500		
Ethylbenzene	1,800		
Trichlorofluoromethane	< 500		
Dichlorodifluoromethane	< 500		
Hexachloro-1,3-butadiene	< 500		
Isopropylbenzene	440		
Methylene Chloride	< 1,500		
n-Propylbenzene	570		
2-Butanone (MEK)	< 5,000		
4-Methyl-2-pentanone (MIBK)	< 5,000		
MTBE	< 500		
Naphthalene	< 1,000		

Table A-2. Soil-Gas Analysis - 05/28/24 Status Report - 2nd Quarter 2024 Fifield 5 No. 1 (OCD Incident No. NVF1718155324) San Juan County, New Mexico

Constituents	SVE-1		
Styrene	< 500		
1,1,2,2-Tetrachloroethane	< 1,000		
Toluene	17,000		
1,2,4-Trichlorobenzene	< 500		
1,1,1-Trichloroethane	< 500		
1,1,2-Trichloroethane	< 500		
1,2,4-Trimethylbenzene	2,700		
1,3,5-Trimethylbenzene	2,400		
Vinyl chloride	< 500		
Total Xylenes	25,000		
Gasoline Range (μg/m³)			
Gasoline Range Organics (GRO)	750,000		
Gases (Mol %)			
Oxygen	21.89		
Carbon Dioxide	0.08		
Methane	< 0.01		

μg/m³ – micrograms per cubic meter

Mol % – mole percent

Photographic Log





PHOTOGRAPHIC LOG

Project No.:	HEC-190009	Client:	Hilcorp Energy Company
Project Name:	Fifield 5 No. 1	Site Location:	San Juan County, New Mexico
Task Description:	Status Report – 2 nd Quarter 2024	Date:	April – June, 2024
Photo No.:	DIRECTION 145 deg(T)		CCURACY 12 m DATUM WGS84
Direction: N/A		-	5
Comments: View of hour meter on 04/05/24.	C	TACH & HOURMETER	2024-04-05 3:08:25-06:00
Photo No.: 2 Direction: N/A Comments: View of hour meter on 04/19/24.	C	TACH & HOURMETER	3

HEC-190009 Page 1 of 5



PHOTOGRAPHIC LOG

Project No.:	HEC-190009	Client:	Hilcorp Energy Company
Project Name:	Fifield 5 No. 1	Site Location:	San Juan County, New Mexico
Task Description:	Status Report – 2 nd Quarter 2		April – June, 2024
Photo No.: 3 Direction: N/A	DIRECT 149 dec		ACCURACY 4 m DATUM WGS84
Comments: View of hour meter on 05/13/24.		SELECT Tiny- Tach GAS TACH & HOURMETER	2024-05-13 1:38:50-06:00
Photo No.: 4 Direction: N/A Comments: View of hour meter on 05/28/24.	DIRECT 140 deg	SELECT Tiny-Tach GAS TACH & HOURMETER	2024-05-28 4:54:31-06:00

HEC-190009 Page 2 of 5



PHOTOGRAPHIC LOG

Project No.:	HEC-190009		Client:	Hilcorp Energy Company
Project Name:	Fifield 5 No. 1		Site Location:	San Juan County, New Mexico
Task Description:		· 2 nd Quarter 2024	Date:	April – June, 2024
Photo No.:	- Claraco Proport			
5		DIRECTION 100 deg(T)	36.74982°N 108.01955°W	ACCURACY 4 m DATUM WGS84
Direction:				1 1 1 1 1 1
N/A				
Comments:				
View of hour meter				A 3
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Photo No.:		DIRECTION	36.74982°N	ACCURACY 5 m
6		146 deg(T)	108.01955°W	DATUM WGS84
Direction:				
N/A				
Comments:			No. of the last of	The state of the s
View of hour meter on 06/26/24.				199
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		AND NAMED IN	1	3:46:45-06:00

HEC-190009 Page 3 of 5



PHOTOGRAPHIC LOG

Project No.:	HEC-190009	Client:	Hilcorp Energy Company
Project Name:	Fifield 5 No. 1	Site Location:	San Juan County, New Mexico
Task Description:	Status Report – 2 nd Quarter 2024	Date:	April – June, 2024
Photo No.: 7 Direction: N/A			
Comments: View of installed power inverter.			
Photo No.: 8 Direction: N/A Comments: View of installed Program System automation.			

HEC-190009 Page 4 of 5



PHOTOGRAPHIC LOG

Project No.:	HEC-190009	Client:	Hilcorp Energy Company
Project Name:	Fifield 5 No. 1	Site Location:	San Juan County, New Mexico
Task Description:	Status Report – 2 nd Quarter 2024	Date:	April – June, 2024
Photo No.: 9			
Direction: N/A			
Comments: View of replaced hoses.			

HEC-190009 Page 5 of 5

Laboratory Report and Chain-of-Custody Documents



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Fifield 5 #1

JOB NUMBER

885-5279-1

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

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Laboratory Job ID: 885-5279-1

Client: Hilcorp Energy Project/Site: Fifield 5 #1

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Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-5279-1

Project/Site: Fifield 5 #1

Glossary

LOD

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)

 LOQ
 Limit of Quantitation (DoD/DOE)

 MCL
 EPA recommended "Maximum Contaminant Level"

 MDA
 Minimum Detectable Activity (Radiochemistry)

 MDC
 Minimum Detectable Concentration (Radiochemistry)

Limit of Detection (DoD/DOE)

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

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10

11

Case Narrative

Client: Hilcorp Energy Job ID: 885-5279-1 Project: Fifield 5 #1

Eurofins Albuquerque Job ID: 885-5279-1

Job Narrative 885-5279-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- 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 5/30/2024 6:55 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 16.3°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.

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

Job ID: 885-5279-1

Client: Hilcorp Energy Project/Site: Fifield 5 #1

Client Sample ID: SVE-1 Lab Sample ID: 885-5279-1 Date Collected: 05/28/24 15:00

Matrix: Air

Date Received: 05/30/24 06:55 Sample Container: Tedlar Bag 1L

Released to Imaging: 10/28/2024 9:59:47 AM

Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	750		10	ug/L			06/07/24 13:22	2
C10]								

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 Bromofluorobenzene (Surr)	115	52 172		06/07/24 12:22	

06/07/24 13:22 Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

moundar official cards	relating organic compounds (come)
Analyte	Result Qualifier

Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND ND	0.20	ug/L		06/07/24 13:22	2
1,1,1-Trichloroethane	ND	0.20	ug/L		06/07/24 13:22	2
1,1,2,2-Tetrachloroethane	ND	0.40	ug/L		06/07/24 13:22	2
1,1,2-Trichloroethane	ND	0.20	ug/L		06/07/24 13:22	2
1,1-Dichloroethane	ND	0.20	ug/L		06/07/24 13:22	2
1,1-Dichloroethene	ND	0.20	ug/L		06/07/24 13:22	2
1,1-Dichloropropene	ND	0.20	ug/L		06/07/24 13:22	2
1,2,3-Trichlorobenzene	ND	0.20	ug/L		06/07/24 13:22	2
1,2,3-Trichloropropane	ND	0.40	ug/L		06/07/24 13:22	2
1,2,4-Trichlorobenzene	ND	0.20	ug/L		06/07/24 13:22	2
1,2,4-Trimethylbenzene	2.7	0.20	ug/L		06/07/24 13:22	2
1,2-Dibromo-3-Chloropropane	ND	0.40	ug/L		06/07/24 13:22	2
1,2-Dibromoethane (EDB)	ND	0.20	ug/L		06/07/24 13:22	2
1,2-Dichlorobenzene	ND	0.20	ug/L		06/07/24 13:22	2
1,2-Dichloroethane (EDC)	ND	0.20	ug/L		06/07/24 13:22	2
1,2-Dichloropropane	ND	0.20	ug/L		06/07/24 13:22	2
1,3,5-Trimethylbenzene	2.4	0.20	ug/L		06/07/24 13:22	2
1,3-Dichlorobenzene	ND	0.20	ug/L		06/07/24 13:22	2
1,3-Dichloropropane	ND	0.20	ug/L		06/07/24 13:22	2
1,4-Dichlorobenzene	ND	0.20	ug/L		06/07/24 13:22	2
1-Methylnaphthalene	ND	0.80	ug/L		06/07/24 13:22	2
2,2-Dichloropropane	ND	0.40	ug/L		06/07/24 13:22	2
2-Butanone	ND	2.0	ug/L		06/07/24 13:22	2
2-Chlorotoluene	ND	0.20	ug/L		06/07/24 13:22	2
2-Hexanone	ND	2.0	ug/L		06/07/24 13:22	2
2-Methylnaphthalene	ND	0.80	ug/L		06/07/24 13:22	2
4-Chlorotoluene	ND	0.20	ug/L		06/07/24 13:22	2
4-Isopropyltoluene	ND	0.20	ug/L		06/07/24 13:22	2
4-Methyl-2-pentanone	ND	2.0	ug/L		06/07/24 13:22	2
Acetone	ND	2.0	ug/L		06/07/24 13:22	2
Benzene	2.0	0.20	ug/L		06/07/24 13:22	2
Bromobenzene	ND	0.20	ug/L		06/07/24 13:22	2
Bromodichloromethane	ND	0.20	ug/L		06/07/24 13:22	2
Dibromochloromethane	ND	0.20	ug/L		06/07/24 13:22	2
Bromoform	ND	0.20	ug/L		06/07/24 13:22	2
Bromomethane	ND	0.60	ug/L		06/07/24 13:22	2
Carbon disulfide	ND	2.0	ug/L		06/07/24 13:22	2
Carbon tetrachloride	ND	0.20	ug/L		06/07/24 13:22	2
Chlorobenzene	ND	0.20	ug/L		06/07/24 13:22	2
Chloroethane	ND	0.40	ug/L		06/07/24 13:22	2
Chloroform	ND	0.20	ug/L		06/07/24 13:22	2

Job ID: 885-5279-1

Client: Hilcorp Energy Project/Site: Fifield 5 #1

Client Sample ID: SVE-1 Lab Sample ID: 885-5279-1 Date Collected: 05/28/24 15:00

Matrix: Air

Date Received: 05/30/24 06:55 Sample Container: Tedlar Bag 1L

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND ND	0.60	ug/L			06/07/24 13:22	2
cis-1,2-Dichloroethene	ND	0.20	ug/L			06/07/24 13:22	2
cis-1,3-Dichloropropene	ND	0.20	ug/L			06/07/24 13:22	2
Dibromomethane	ND	0.20	ug/L			06/07/24 13:22	2
Dichlorodifluoromethane	ND	0.20	ug/L			06/07/24 13:22	2
Ethylbenzene	1.8	0.20	ug/L			06/07/24 13:22	2
Hexachlorobutadiene	ND	0.20	ug/L			06/07/24 13:22	2
Isopropylbenzene	0.44	0.20	ug/L			06/07/24 13:22	2
Methyl-tert-butyl Ether (MTBE)	ND	0.20	ug/L			06/07/24 13:22	2
Methylene Chloride	ND	0.60	ug/L			06/07/24 13:22	2
n-Butylbenzene	ND	0.60	ug/L			06/07/24 13:22	2
N-Propylbenzene	0.57	0.20	ug/L			06/07/24 13:22	2
Naphthalene	ND	0.40	ug/L			06/07/24 13:22	2
sec-Butylbenzene	ND	0.20	ug/L			06/07/24 13:22	2
Styrene	ND	0.20	ug/L			06/07/24 13:22	2
tert-Butylbenzene	ND	0.20	ug/L			06/07/24 13:22	2
Tetrachloroethene (PCE)	ND	0.20	ug/L			06/07/24 13:22	2
Toluene	17	0.20	ug/L			06/07/24 13:22	2
trans-1,2-Dichloroethene	ND	0.20	ug/L			06/07/24 13:22	2
trans-1,3-Dichloropropene	ND	0.20	ug/L			06/07/24 13:22	2
Trichloroethene (TCE)	ND	0.20	ug/L			06/07/24 13:22	2
Trichlorofluoromethane	ND	0.20	ug/L			06/07/24 13:22	2
Vinyl chloride	ND	0.20	ug/L			06/07/24 13:22	2
Xylenes, Total	25	0.30	ug/L			06/07/24 13:22	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 130		06/07/24 13:22	2
Toluene-d8 (Surr)	118		70 - 130		06/07/24 13:22	2
4-Bromofluorobenzene (Surr)	125		70 - 130		06/07/24 13:22	2
Dibromofluoromethane (Surr)	84		70 - 130		06/07/24 13:22	2

QC Sample Results

Client: Hilcorp Energy Job ID: 885-5279-1

Project/Site: Fifield 5 #1

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

Lab Sample ID: MB 885-6414/3 Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA

Analysis Batch: 6414

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 50 ug/L 06/07/24 12:08

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 52 - 172 4-Bromofluorobenzene (Surr) 103 06/07/24 12:08

Lab Sample ID: LCS 885-6414/2

Matrix: Air

Analysis Batch: 6414

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 500 509 ug/L 102 Gasoline Range Organics [C6 -

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits 52 - 172 4-Bromofluorobenzene (Surr) 107

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

Lab Sample ID: MB 885-6408/3 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air

Analysis Batch: 6408

Released to Imaging: 10/28/2024 9:59:47 AM

Analysis Batch: 6408		MD						
Analyte		MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L	— <u> </u>		06/07/24 12:08	1
1,1,1-Trichloroethane	ND		0.10	ug/L			06/07/24 12:08	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			06/07/24 12:08	1
1,1,2-Trichloroethane	ND		0.10	ug/L			06/07/24 12:08	1
1,1-Dichloroethane	ND		0.10	ug/L			06/07/24 12:08	1
1,1-Dichloroethene	ND		0.10	ug/L			06/07/24 12:08	1
1,1-Dichloropropene	ND		0.10	ug/L			06/07/24 12:08	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			06/07/24 12:08	1
1,2,3-Trichloropropane	ND		0.20	ug/L			06/07/24 12:08	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			06/07/24 12:08	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			06/07/24 12:08	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			06/07/24 12:08	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			06/07/24 12:08	1
1,2-Dichlorobenzene	ND		0.10	ug/L			06/07/24 12:08	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			06/07/24 12:08	1
1,2-Dichloropropane	ND		0.10	ug/L			06/07/24 12:08	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			06/07/24 12:08	1
1,3-Dichlorobenzene	ND		0.10	ug/L			06/07/24 12:08	1
1,3-Dichloropropane	ND		0.10	ug/L			06/07/24 12:08	1
1,4-Dichlorobenzene	ND		0.10	ug/L			06/07/24 12:08	1
1-Methylnaphthalene	ND		0.40	ug/L			06/07/24 12:08	1
2,2-Dichloropropane	ND		0.20	ug/L			06/07/24 12:08	1
2-Butanone	ND		1.0	ug/L			06/07/24 12:08	1
2-Chlorotoluene	ND		0.10	ug/L			06/07/24 12:08	1
2-Hexanone	ND		1.0	ug/L			06/07/24 12:08	1

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Sample Results

Client: Hilcorp Energy Job ID: 885-5279-1

Project/Site: Fifield 5 #1

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

Lab Sample ID: MB 885-6408/3

Matrix: Air

Analysis Batch: 6408

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB						
Analyte		Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.40	ug/L		06/07/24 12:08	1
4-Chlorotoluene	ND		0.10	ug/L		06/07/24 12:08	1
4-Isopropyltoluene	ND		0.10	ug/L		06/07/24 12:08	1
4-Methyl-2-pentanone	ND		1.0	ug/L		06/07/24 12:08	1
Acetone	ND		1.0	ug/L		06/07/24 12:08	1
Benzene	ND		0.10	ug/L		06/07/24 12:08	1
Bromobenzene	ND		0.10	ug/L		06/07/24 12:08	1
Bromodichloromethane	ND		0.10	ug/L		06/07/24 12:08	1
Dibromochloromethane	ND		0.10	ug/L		06/07/24 12:08	1
Bromoform	ND		0.10	ug/L		06/07/24 12:08	1
Bromomethane	ND		0.30	ug/L		06/07/24 12:08	1
Carbon disulfide	ND		1.0	ug/L		06/07/24 12:08	1
Carbon tetrachloride	ND		0.10	ug/L		06/07/24 12:08	1
Chlorobenzene	ND		0.10	ug/L		06/07/24 12:08	1
Chloroethane	ND		0.20	ug/L		06/07/24 12:08	1
Chloroform	ND		0.10	ug/L		06/07/24 12:08	1
Chloromethane	ND		0.30	ug/L		06/07/24 12:08	1
cis-1,2-Dichloroethene	ND		0.10	ug/L		06/07/24 12:08	1
cis-1,3-Dichloropropene	ND		0.10	ug/L		06/07/24 12:08	1
Dibromomethane	ND		0.10	ug/L		06/07/24 12:08	1
Dichlorodifluoromethane	ND		0.10	ug/L		06/07/24 12:08	1
Ethylbenzene	ND		0.10	ug/L		06/07/24 12:08	1
Hexachlorobutadiene	ND		0.10	ug/L		06/07/24 12:08	1
Isopropylbenzene	ND		0.10	ug/L		06/07/24 12:08	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L		06/07/24 12:08	1
Methylene Chloride	ND		0.30	ug/L		06/07/24 12:08	1
n-Butylbenzene	ND		0.30	ug/L		06/07/24 12:08	1
N-Propylbenzene	ND		0.10	ug/L		06/07/24 12:08	1
Naphthalene	ND		0.20	ug/L		06/07/24 12:08	1
sec-Butylbenzene	ND		0.10	ug/L		06/07/24 12:08	1
Styrene	ND		0.10	ug/L		06/07/24 12:08	1
tert-Butylbenzene	ND		0.10	ug/L		06/07/24 12:08	1
Tetrachloroethene (PCE)	ND		0.10	ug/L		06/07/24 12:08	1
Toluene	ND		0.10	ug/L		06/07/24 12:08	1
trans-1,2-Dichloroethene	ND		0.10	ug/L		06/07/24 12:08	1
trans-1,3-Dichloropropene	ND		0.10	ug/L		06/07/24 12:08	1
Trichloroethene (TCE)	ND		0.10	ug/L		06/07/24 12:08	1
Trichlorofluoromethane	ND		0.10	ug/L		06/07/24 12:08	1
Vinyl chloride	ND		0.10	ug/L		06/07/24 12:08	1
Xylenes, Total	ND		0.15	ug/L		06/07/24 12:08	1
	115		00	~3 [,] =		30,0.,22.00	•
	MB	MB					
Surrogate	%Recovery	Qualifier	l imits		Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	-		06/07/24 12:08	1
Toluene-d8 (Surr)	94		70 - 130			06/07/24 12:08	1
4-Bromofluorobenzene (Surr)	112		70 - 130			06/07/24 12:08	1
Dibromofluoromethane (Surr)	94		70 - 130			06/07/24 12:08	1

QC Sample Results

Client: Hilcorp Energy Job ID: 885-5279-1

Project/Site: Fifield 5 #1

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

Lab Samp	le ID:	LCS 88	5-6408/2
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Client Sample ID: Lab Control Sample

Matrix: Air Analysis Batch: 6408

	Prep Type: Total/NA	

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.1	19.5		ug/L		97		
Benzene	20.1	20.2		ug/L		101		
Chlorobenzene	20.1	20.4		ug/L		102		
Toluene	20.2	20.4		ug/L		101		
Trichloroethene (TCE)	20.2	18.6		ug/L		92		

I CS	LCS

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	89		70 - 130

QC Association Summary

Client: Hilcorp Energy
Project/Site: Fifield 5 #1

Job ID: 885-5279-1

GC/MS VOA

Analysis Batch: 6408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5279-1	SVE-1	Total/NA	Air	8260B	
MB 885-6408/3	Method Blank	Total/NA	Air	8260B	
LCS 885-6408/2	Lab Control Sample	Total/NA	Air	8260B	

Analysis Batch: 6414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5279-1	SVE-1	Total/NA	Air	8015M/D	
MB 885-6414/3	Method Blank	Total/NA	Air	8015M/D	
LCS 885-6414/2	Lab Control Sample	Total/NA	Air	8015M/D	

Lab Chronicle

Client: Hilcorp Energy Job ID: 885-5279-1

Project/Site: Fifield 5 #1

Client Sample ID: SVE-1 Lab Sample ID: 885-5279-1

Date Collected: 05/28/24 15:00 Matrix: Air

Date Received: 05/30/24 06:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015M/D			6414	RA	EET ALB	06/07/24 13:22
Total/NA	Analysis	8260B		2	6408	RA	EET ALB	06/07/24 13:22

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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Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-5279-1

Project/Site: Fifield 5 #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	eport. but the laboratory is not certified by th	ne governing authority. This lis	t mav 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-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-5279-1

Project/Site: Fifield 5 #1

Laboratory: Eurofins Albuquerque (Continued)

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

hority	Progra	am	Identification Number	Expiration Date
	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This li	st may include analyte
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 (M	ITBE)
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-Dichloropropen	е
8260B		Air	Trichloroethene (TCE)	
8260B		Air	Trichlorofluoromethane	
8260B		Air	Vinyl chloride	
8260B		Air	Xylenes, Total	
on	NELAI	0	NM100001	02-26-25

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

Analysis Method	Prep Method	Matrix	Analyte
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

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Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-5279-1

Project/Site: Fifield 5 #1

Laboratory: Eurofins Albuquerque (Continued)

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

ority	Progra	am	Identification Number	Expiration Date
	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This list	may include analyte
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 (MT	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	

Eurofins Albuquerque

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

ANALYTICAL SUMMARY REPORT

June 10, 2024

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

Quote ID: B15626 Work Order: B24060076

Project Name: Fifield 5 #1, 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 6/3/2024 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B24060076-001	SVE-1 (885-5279-1)	05/28/24 15:00 06/03/24	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., 3161 E. Lyndale Ave., Helena, MT 59604, 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.

Report Approved By:

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

....,

@56CF5HCFM5B5@MH=75@F9DCFH
Prepared by Billings, MT Branch

7`]Ybh Hall Environmental
Dfc YWh Fifield 5 #1, 88501698
@W*=3. B24060076-001
7`]YbhiGUa d`Y*=3. SVE-1 (885-5279-1)

FYdcfhi8 Uhy. 06/10/24
7 c``YWijcb'8 Uhy. 05/28/24 15:00
8 UhyF YWrjj YX. 06/03/24
A Uhjl . Air

					A7 @#	
5 bƯ ngYg	FYgi`h	lb]hg	Ei Ư]Z[Yfg	F@	E7@ AYN cX	5 bƯng]g˙8 UhY˙#6 m
; 5G'7 <fca5hc; f5d<m'5b5@mg="</td"><td>G'F9DCFH</td><td></td><td></td><td></td><td></td><td></td></fca5hc;>	G'F9DCFH					
Oxygen		Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Nitrogen	78.00	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Carbon Dioxide	0.08	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Methane	<0.01	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Ethane	<0.01	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Propane	<0.01	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Isobutane	<0.01	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
n-Butane	<0.01	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Isopentane	<0.01	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
n-Pentane	< 0.01	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Hexanes plus	0.03	Mol %		0.01	GPA 2261-95	06/05/24 10:32 / jrj
Propane	< 0.001	gpm		0.001	GPA 2261-95	06/05/24 10:32 / jrj
Isobutane	< 0.001	gpm		0.001	GPA 2261-95	06/05/24 10:32 / jrj
n-Butane	< 0.001	gpm		0.001	GPA 2261-95	06/05/24 10:32 / jrj
Isopentane	< 0.001	gpm		0.001	GPA 2261-95	06/05/24 10:32 / jrj
n-Pentane	< 0.001	gpm		0.001	GPA 2261-95	06/05/24 10:32 / jrj
Hexanes plus	0.013	gpm		0.001	GPA 2261-95	06/05/24 10:32 / jrj
GPM Total	0.013	gpm		0.001	GPA 2261-95	06/05/24 10:32 / jrj
GPM Pentanes plus	0.013	gpm		0.001	GPA 2261-95	06/05/24 10:32 / jrj
75 @71 @5H98 DFCD9FH=9G						
Gross BTU per cu ft @ Std Cond. (HHV)	1			1	GPA 2261-95	06/05/24 10:32 / jrj
Net BTU per cu ft @ std cond. (LHV)	1			1	GPA 2261-95	06/05/24 10:32 / jrj
Pseudo-critical Pressure, psia	545			1	GPA 2261-95	06/05/24 10:32 / jrj
Pseudo-critical Temperature, deg R	239			1	GPA 2261-95	06/05/24 10:32 / jrj
Specific Gravity @ 60/60F	0.999			0.001	D3588-81	06/05/24 10:32 / jrj
Air, % - The analysis was not corrected for air.	100.01			0.01	GPA 2261-95	06/05/24 10:32 / jrj
7CAA9BHG						

- 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

FYdcfh RL - Analyte Reporting Limit QCL - Quality Control Limit

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

Page 2 of 6 6/10/2024

06/05/24 10:32 / jrj

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

E5#E7 Gi a a UfmFYdcfh

Prepared by Billings, MT Branch

7`]Ybh	Hall Environmental	K cf_'CfXYf. B24060076	FYdcfhi8 UhY. 06/10/24
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5 bƯnhY		7 ci bh	F Ygi `h	l b]lg	F@	ı F97	@cki@ja]h	<][\`@]a]h	FD8	FD8 @ja]h	Ei Մ
A Yh cX.	; D5 '&&* %-)									Batch:	R422363
@UV" = 8.	6 &(\$* \$\$+* !\$\$%581 D	12 Saı	mple Duplic	ate			Run: GCNG	A-B_240605A		06/05	/24 11:22
Oxygen			21.9	Mol %	0.01				0.1	20	
Nitrogen			78.0	Mol %	0.01				0	20	
Carbon Di	ioxide		0.08	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	
Isopentan	е		<0.01	Mol %	0.01					20	
n-Pentane	e		<0.01	Mol %	0.01					20	
Hexanes _I	plus		0.03	Mol %	0.01				0.0	20	
@UV" = 8.	@7 G\$* \$) &(11 Lat	oratory Co	ntrol Sample)		Run: GCNG	SA-B_240605A		06/05	/24 01:03
Oxygen			0.65	Mol %	0.01	130	70	130			
Nitrogen			6.08	Mol %	0.01	101	70	130			
Carbon Di	ioxide		1.00	Mol %	0.01	101	70	130			
Methane			74.8	Mol %	0.01	100	70	130			
Ethane			6.02	Mol %	0.01	100	70	130			
Propane			5.03	Mol %	0.01	102	70	130			
Isobutane	1		1.63	Mol %	0.01	81	70	130			
n-Butane			2.00	Mol %	0.01	100	70	130			
Isopentan	е		1.01	Mol %	0.01	101	70	130			
n-Pentane	e		1.01	Mol %	0.01	101	70	130			
Hexanes _I	plus		0.79	Mol %	0.01	99	70	130			

Ei U]Z]Yfg.

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Trust our People. Trust our Data. www.energylab.com

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K cf_'CfXYf'FYWY]dh7\ YW_`]gh

Hall Environmental B24060076

Login completed by: (Crystal M. Jones		Date R	eceived: 6/3/2024
Reviewed by:	leprowse		Rece	eived by: JFR
Reviewed Date: 6	6/10/2024		Carri	er name: FedEx NDA
Shipping container/cooler in go	ood condition?	Yes ✓	No 🗌	Not Present
Custody seals intact on all ship	pping container(s)/cooler(s)?	Yes ✓	No 🗌	Not Present
Custody seals intact on all sam	nple 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 s	sample labels?	Yes ✓	No 🗌	
Samples in proper container/bo	ottle?	Yes ✓	No 🗌	
Sample containers intact?		Yes ✓	No 🗌	
Sufficient sample volume for in	ndicated test?	Yes ✓	No 🗌	
All samples received within hol (Exclude analyses that are con such as pH, DO, Res Cl, Sulfii	nsidered field parameters	Yes ✓	No 🗌	
Temp Blank received in all ship	pping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank tempera	ature:	19.4°C No Ice		
Containers requiring zero head bubble that is <6mm (1/4").	dspace have no headspace or	Yes	No 🗌	No VOA vials submitted ✓
Water - pH acceptable upon re	eceipt?	Yes	No 🗌	Not Applicable 🗹

GHUbXUfX'FYdcfhjb['DfcWfXi fYg.

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.

7 cbhJWhJbX'7 cffYWhJj Y'5 WhJcb'7 ca a Ybhg.

None

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Eurofins Albuquerque 4901 Hawkins NE Albuquerque, NM 87109 Phone: 505-345-3975 Fax: 505-345-4107	Chain of	Chain of Custody Record	cord		eurofins Environment Testing
Client Information (Sub Contract Lab)	Sampler:	Lab PM: Freem	Lab PM: Freeman, Andy	Carrier Tracking No(s):	COC No: 885-811.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: andy.fr	E-Mail: andy.freeman@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Energy Laboratories, Inc.		ΧZ	Accreditations Required (See note): NELAP - Oregon; State - New Mexico		Job #: 885-5279-1
Address: 1120 South 27th Street,	Due Date Requested: 6/11/2024		Analysis Requested	equested	Preservation Codes:
City: Billings	TAT Requested (days):				
State, Ltp: MT, 59101					4
Phone: 406-252-6325(Tel)	PO#:	(c			
Email:	#OM	N 10	(oN		9
Project Name: Fifield 5 #1	Project #: 88501698	SƏ, J. Ə	10.28	toules	iaupi
Site:	SSOW#:	i	SD (Y	30	Other:
	Sample	Sample Matrix of Type (w-water, E. C=Comp, o-wasteld), did	rform MS/M	sodmild let	sal Number
Sample Identification - Client ID (Lab ID)	Sample Date Time G	G=grab) BT-Tissue, A=Air) III Preservation Code: X	ы X		Special Instructions/Note:
SVE-1 (885-5279-1)		Air	×		1 Rauri (8)76
	Mountain				
Note: Since laboratory accreditations are subject to change. Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This samples this many South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This samples instructions will be provided. Any changes to laboratory of other instructions will be provided. Any changes to accreditation are current to date, return the signed Chain of Custody affecting Environment Testing South Central, LLC attention immediately, if all requested accreditations are current to date, return the signed Chain of Custody affecting Environment Testing South Central, LLC attention immediately, if all requested accreditations are current to date, return the signed Chain of Custody affecting Environment Testing South Central, LLC attention immediately, if all requested accreditations are current to date, return the signed Chain of Custody affecting to said compliance to Eurofins Environment Testing South Central, LLC attention immediately, if all requested accreditations are current to date.	Intesting South Central, LLC places the sove for analysis/tests/matrix being analy ntral, LLC attention immediately. If all re	ownership of method, analyte rzed, the samples must be sh quested accreditations are co	& accreditation compliance upon our subco pped back to the Euroffins Environment Test irrent to date, return the signed Chain of Cus	ntract laboratories. This sample shipme ing South Central, LLC laboratory or oth stody attesting to said compliance to Euro	nt is forwarded under chain-of-custody. If the instructions will be provided. Any changes to fine Environment Testing South Central, LLC.
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month	assessed if samples are retai	ned longer than 1 month)
Unconfirmed			Return To Client	Disposal By Lab Arc	Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Raffk. 2		Special instructions/QC Requirements		
Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 5/30/24 /3	:59	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	. <mark>Date/Time:</mark>	Сотрапу
1	Date/Time:	Company	Received by: Restar Jeally	wheel batertime:	O9O5 Company
Custody Seals Intact: Custody Seal No.			Cooler Temperature(s) °C and Other Remarks.		
					Ver: 04/02/2024

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Preservative None

Container Type Tedlar Bag 1L

ICOC No: 885-811 Containers Count

> Page 6 of 6 6/10/2024

Page 22 of 23

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-5279-1

Login Number: 5279 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.</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?	N/A	
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

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 363389

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	363389
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record.	10/28/2024