



January 12, 2022

New Mexico Oil Conservation Division New Mexico Energy, Minerals, and Natural Resources Department 1000 Rio Brazos Road Aztec, NM 87410

Subject: Fourth Quarter 2021 - Quarterly SVE System Update

Hilcorp Energy Company

Scott 4M

API#: 30-045-34887

NMOCD Incident Number: NCE2003650476

San Juan County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of Hilcorp Energy Company (Hilcorp), presents the following fourth quarter 2021 summary report discussing the soil vapor extraction (SVE) system at the Scott 4M natural gas production well (Site, shown on Figure 1). This report is being submitted as part of the proposed timeline of remediation events in the *Update Report and Updated Remediation Workplan* submitted to the New Mexico Oil Conservation Division (NMOCD) and dated October 6, 2021. This report documents air sampling and system operations to monitor SVE remediation progress.

FOURTH QUARTER 2021 ACTIVITIES

A permanent SVE system was installed at the Site on February 1, 2021. The layout of the SVE system and piping is shown on Figure 2. During the fourth quarter of 2021, Hilcorp and WSP personnel conducted bi-weekly operation and maintenance visits to ensure the system was operating, maximize runtime efficiency, and conduct any required system maintenance. Also, during the fourth quarter of 2021, WSP personnel installed two additional SVE observation wells and conducted additional pilot testing at the Site. For details pertaining to the additional pilot testing, please refer to the *Updated Pilot Testing Report*, submitted to the NMOCD on December 15, 2021.

A fourth quarter air sample was collected on December 2, 2021 from the inlet side of the SVE blower using a high-vacuum air sampler. The air sample was collected directly into a 1-Liter Tedlar® bag and submitted to Hall Environmental Analysis Laboratory (Hall) for analysis of volatile organic compounds (VOCs) by United States Environmental Protection Agency (EPA) Method 8260, fixed gas analysis of oxygen and carbon dioxide, and total volatile petroleum hydrocarbons (TVPH) by EPA Method 8015. Prior to collection, the air from the influent side was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). Table 1 presents a summary of analytical data collected during this sampling event, with the full laboratory analytical report included in Enclosure A. Table 1 also includes historical data collected during past sampling events.

The air sample data collected to date and measured stack flow rate were utilized to calculate total emissions for the system up to December 2, 2021 (Table 2). As of December 2, 2021, the total operational time of the system was 2,986 hours with an estimated mass source removal via the SVE system of 3,788 pounds of TVPH. The last site visit conducted in the 4th quarter of 2021 occurred on December 21, 2021. At that time the operational runtime for the fourth quarter 2021 was calculated to be 90 % and since system startup the operational runtime is 94%. Based on Site visit observation and runtime calculations, the system was operating as anticipated during the fourth quarter of 2021.

WSP USA 848 EAST 2ND AVENUE DURANGO CO 81301

Tel.: 970-385-1096 wsp.com



RECOMMENDATIONS

Regular operation and maintenance (O&M) visits will continue to be conducted bi-weekly by WSP and/or Hilcorp personnel. During O&M visits, personnel will ensure that the SVE system is operating within normal working temperature, pressure, and vacuum ranges. Any deviations from regular operations will be noted and included in the subsequent quarterly report.

Based on the remediation timeline presented in the Update Report and Updated Remediation Workplan, Hilcorp will apply any upgrades to the system design in the 1st quarter of 2022.

WSP appreciates the opportunity to provide this report to the NMOCD. If you have any questions or comments regarding this work plan, do not hesitate to contact me at (970) 385-1096 or via email at josh.adams@wsp.com or Mitch Killough at (713) 757-5247 or at mkillough@hilcorp.com.

Kind regards,

Josh Adams, P.G.

Consultant, Geologist

Rob Rebel, P.E. Technical Principle

Probert T Prebel

Enclosures

Figure 1 – Site Location Map

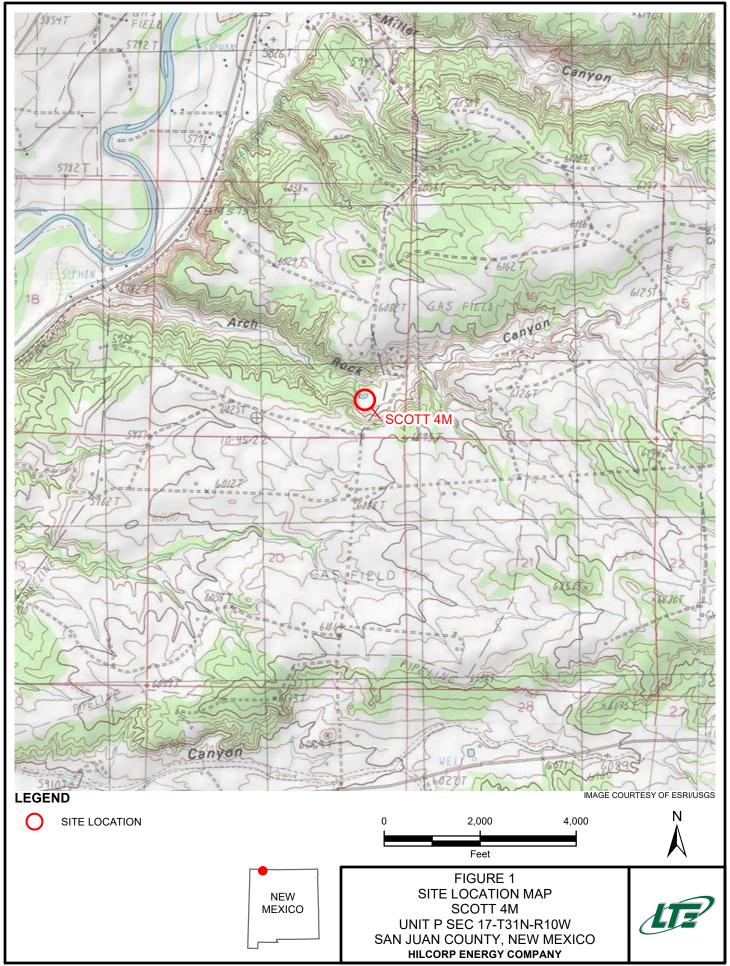
Figure 2 – As-Built Diagram

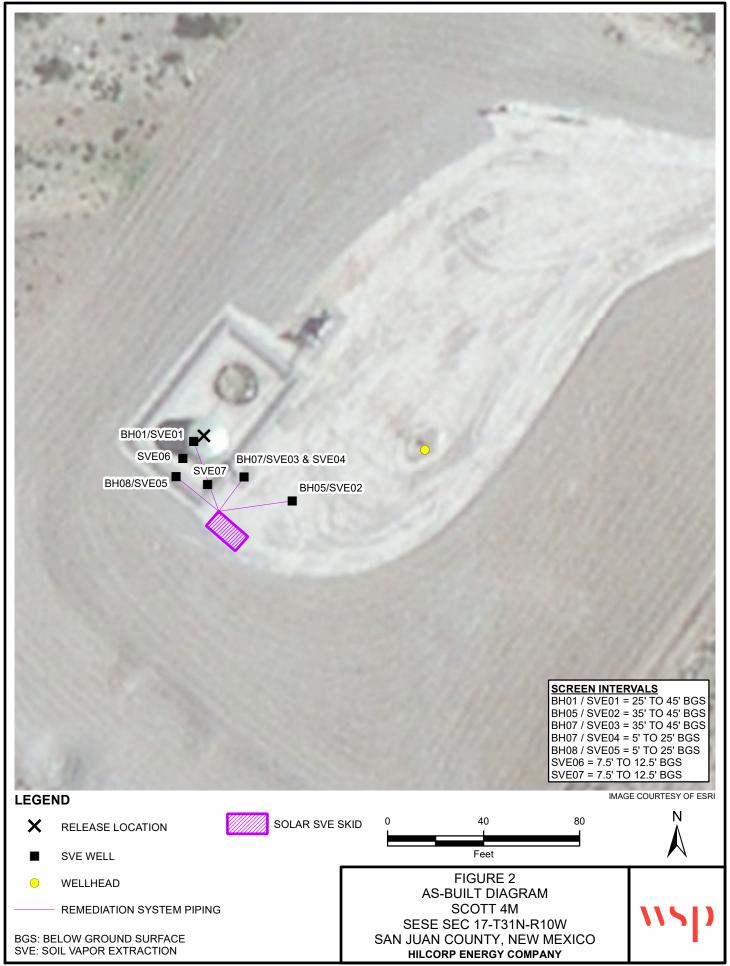
Table 1 – Air Sample Laboratory Analytical Results

Table 2 – Soil Vapor Extraction System Recovery & Emissions Summary

Enclosure A –Laboratory Analytical Reports

FIGURES





TABLES

TABLE 1 AIR SAMPLE LABORATORY ANALYTICAL RESULTS

SCOTT #4M SAN JUAN COUNTY, NEW MEXICO HILCORP ENERGY COMPANY

Sample ID	Sample Date	PID (ppm)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Xylenes (μg/L)	TVPH (µg/L)
Influent 02-01-21	2/1/2021	118	85	240	9.6	64	18,000
Influent 09-07-21	9/7/2021	53	40	280	24.0	240	15,000
Influent SVE01	9/29/2021	316	210	1,800	240	2,200	85,000
Influent SVE01	12/2/2021	232	48	320	32	310	50,000

Notes:

μg/L - micrograms per Liter

PID - photoionization detector

ppm - parts per million

TVPH - total volatile petroleum hydrocarbons

TABLE 2 SOIL VAPOR EXTRACTION SYSTEM RECOVERY & EMISSIONS SUMMARY

SCOTT 4M SAN JUAN COUNTY, NEW MEXICO HILCORP ENERGY COMPANY

Sample Information and Lab Analysis

Date	Total Flow (cf)	Delta Flow (cf)	PID (ppm)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	TVPH (μg/L)
2/1/2021	1,980	1,980	118	85	240	10	64	18,000
9/7/2021	2,841,168	2,839,188	53.3	40	280	24	240	15,000
9/29/2021	2,979,528	138,360	316	210	1,800	240	2,200	85,000
12/2/2021	3,499,616	520,088	232	48	320	32	310	50,000
	Average		180	96	660	77	704	42,000

Vapor Extraction Calculations

Date	Flow Rate (cfm)	Benzene (lb/hr)	Toluene (lb/hr)	Ethyl- benzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)						
2/1/2021	22	0.007	0.020	0.001	0.005	1.482						
9/7/2021	22	0.003	0.023	0.002	0.020	1.235						
9/29/2021	10	0.008	0.067	0.009	0.082	3.182						
12/2/2021	4	0.001	0.004	0.000	0.004	0.655						
Average	14	0.0047	0.0286	0.0031	0.0279	1.6387						

Pounds Extracted Over Total Operating Time

Date	Total Operational Hours	Delta Hours	Benzene (lbs)	Toluene (lbs)	Ethyl- benzene (lbs)	Total Xylenes (lbs)	Total BTEX (lbs)	TVPH (lbs)			
2/1/2021	1.5	1.5	0.0	0.0	0.0	0.0	0.0	2.2			
9/7/2021	2,152	2,151	7.1	49.6	4.3	42.5	103.4	2,657			
9/29/2021	2,383	231	1.8	15.5	2.1	19.0	38.4	733.7			
12/2/2021	2,986	603	0.4	2.5	0.3	2.4	5.6	395.0			
Tota	Total Extracted to Date			67.7	6.6	64.0	147.5	3,788			

Notes:

BTEX - benzene, toluene, ethylbenzene, total xylenes

cf - cubic feet

cfm - cubic feet per minute

lbs - pounds

lb/hr - pounds per hour

μg/L - microgram per liter

PID - photoionization detector

ppm - parts per million

TVPH - total volatile petroleum hydrocarbons

ENCLOSURE A –LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

December 15, 2021

Danny Burns HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Scott 4 M OrderNo.: 2112291

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/4/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2112291

Date Reported: 12/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Influent SVE01

 Project:
 Scott 4 M
 Collection Date: 12/2/2021 11:00:00 AM

 Lab ID:
 2112291-001
 Matrix: AIR
 Received Date: 12/4/2021 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	50000	500		μg/L	100	12/6/2021 11:03:51 AM
Surr: BFB	549	37.3-213	S	%Rec	100	12/6/2021 11:03:51 AM
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	48	10		μg/L	100	12/4/2021 2:22:00 PM
Toluene	320	10		μg/L	100	12/4/2021 2:22:00 PM
Ethylbenzene	32	10		μg/L	100	12/4/2021 2:22:00 PM
Methyl tert-butyl ether (MTBE)	ND	10		μg/L	100	12/4/2021 2:22:00 PM
1,2,4-Trimethylbenzene	14	10		μg/L	100	12/4/2021 2:22:00 PM
1,3,5-Trimethylbenzene	13	10		μg/L	100	12/4/2021 2:22:00 PM
1,2-Dichloroethane (EDC)	ND	10		μg/L	100	12/4/2021 2:22:00 PM
1,2-Dibromoethane (EDB)	ND	10		μg/L	100	12/4/2021 2:22:00 PM
Naphthalene	ND	20		μg/L	100	12/4/2021 2:22:00 PM
1-Methylnaphthalene	ND	40		μg/L	100	12/4/2021 2:22:00 PM
2-Methylnaphthalene	ND	40		μg/L	100	12/4/2021 2:22:00 PM
Acetone	ND	100		μg/L	100	12/4/2021 2:22:00 PM
Bromobenzene	ND	10		μg/L	100	12/4/2021 2:22:00 PM
Bromodichloromethane	ND	10		μg/L	100	12/4/2021 2:22:00 PM
Bromoform	ND	10		μg/L	100	12/4/2021 2:22:00 PM
Bromomethane	ND	20		μg/L	100	12/4/2021 2:22:00 PM
2-Butanone	ND	100		μg/L	100	12/4/2021 2:22:00 PM
Carbon disulfide	ND	100		μg/L	100	12/4/2021 2:22:00 PM
Carbon tetrachloride	ND	10		μg/L	100	12/4/2021 2:22:00 PM
Chlorobenzene	ND	10		μg/L	100	12/4/2021 2:22:00 PM
Chloroethane	ND	20		μg/L	100	12/4/2021 2:22:00 PM
Chloroform	ND	10		μg/L	100	12/4/2021 2:22:00 PM
Chloromethane	ND	10		μg/L	100	12/4/2021 2:22:00 PM
2-Chlorotoluene	ND	10		μg/L	100	12/4/2021 2:22:00 PM
4-Chlorotoluene	ND	10		μg/L	100	12/4/2021 2:22:00 PM
cis-1,2-DCE	ND	10		μg/L	100	12/4/2021 2:22:00 PM
cis-1,3-Dichloropropene	ND	10		μg/L	100	12/4/2021 2:22:00 PM
1,2-Dibromo-3-chloropropane	ND	20		μg/L	100	12/4/2021 2:22:00 PM
Dibromochloromethane	ND	10		μg/L	100	12/4/2021 2:22:00 PM
Dibromomethane	ND	20		μg/L	100	12/4/2021 2:22:00 PM
1,2-Dichlorobenzene	ND	10		μg/L	100	12/4/2021 2:22:00 PM
1,3-Dichlorobenzene	ND	10		μg/L	100	12/4/2021 2:22:00 PM
1,4-Dichlorobenzene	ND	10		μg/L	100	12/4/2021 2:22:00 PM
Dichlorodifluoromethane	ND	10		μg/L	100	12/4/2021 2:22:00 PM
1,1-Dichloroethane	ND	10		μg/L	100	12/4/2021 2:22:00 PM
1,1-Dichloroethene	ND	10		μg/L	100	12/4/2021 2:22:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2112291

Date Reported: 12/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Influent SVE01

 Project:
 Scott 4 M
 Collection Date: 12/2/2021 11:00:00 AM

 Lab ID:
 2112291-001
 Matrix: AIR
 Received Date: 12/4/2021 9:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
1,2-Dichloropropane	ND	10	μg/L	100	12/4/2021 2:22:00 PM
1,3-Dichloropropane	ND	10	μg/L	100	12/4/2021 2:22:00 PM
2,2-Dichloropropane	ND	10	μg/L	100	12/4/2021 2:22:00 PM
1,1-Dichloropropene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
Hexachlorobutadiene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
2-Hexanone	ND	100	μg/L	100	12/4/2021 2:22:00 PM
Isopropylbenzene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
4-Isopropyltoluene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
4-Methyl-2-pentanone	ND	100	μg/L	100	12/4/2021 2:22:00 PM
Methylene chloride	ND	30	μg/L	100	12/4/2021 2:22:00 PM
n-Butylbenzene	ND	30	μg/L	100	12/4/2021 2:22:00 PM
n-Propylbenzene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
sec-Butylbenzene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
Styrene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
tert-Butylbenzene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
1,1,1,2-Tetrachloroethane	ND	10	μg/L	100	12/4/2021 2:22:00 PM
1,1,2,2-Tetrachloroethane	ND	10	μg/L	100	12/4/2021 2:22:00 PM
Tetrachloroethene (PCE)	ND	10	μg/L	100	12/4/2021 2:22:00 PM
trans-1,2-DCE	ND	10	μg/L	100	12/4/2021 2:22:00 PM
trans-1,3-Dichloropropene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
1,2,3-Trichlorobenzene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
1,2,4-Trichlorobenzene	ND	10	μg/L	100	12/4/2021 2:22:00 PM
1,1,1-Trichloroethane	ND	10	μg/L	100	12/4/2021 2:22:00 PM
1,1,2-Trichloroethane	ND	10	μg/L	100	12/4/2021 2:22:00 PM
Trichloroethene (TCE)	ND	10	μg/L	100	12/4/2021 2:22:00 PM
Trichlorofluoromethane	ND	10	μg/L	100	12/4/2021 2:22:00 PM
1,2,3-Trichloropropane	ND	20	μg/L	100	12/4/2021 2:22:00 PM
Vinyl chloride	ND	10	μg/L	100	12/4/2021 2:22:00 PM
Xylenes, Total	310	15	μg/L	100	12/4/2021 2:22:00 PM
Surr: Dibromofluoromethane	103	70-130	%Rec	100	12/4/2021 2:22:00 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	100	12/4/2021 2:22:00 PM
Surr: Toluene-d8	106	70-130	%Rec	100	12/4/2021 2:22:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	100	12/4/2021 2:22:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2112291**Date Reported: **12/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Influent SVE05

 Project:
 Scott 4 M
 Collection Date: 12/3/2021 10:55:00 AM

 Lab ID:
 2112291-002
 Matrix: AIR
 Received Date: 12/4/2021 9:45:00 AM

Commonstrates Casoline Range Caso	Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Surr: BFB	EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Benzene	Gasoline Range Organics (GRO)	2400	50		μg/L	10	12/6/2021 11:27:30 AM
Benzene	Surr: BFB	305	37.3-213	S	%Rec	10	12/6/2021 11:27:30 AM
Toluene S3 1.0 μg/L 10 12/4/2021 3:56:00 PM Ethylbenzene 5.8 1.0 μg/L 10 12/4/2021 3:56:00 PM 12/4/10021 3:56:00 PM 12/4/	EPA METHOD 8260B: VOLATILES						Analyst: CCM
Toluene 53 1.0 μg/L 10 12/4/2021 3:56:00 PM Ethylbenzene 5.8 1.0 μg/L 10 12/4/2021 3:56:00 PM Methyl tert-butyl ether (MTBE) ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2,4-Trimethylbenzene 4.3 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2,3-Trimethylbenzene 3.6 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.3,5-Trimethylbenzene 3.6 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane (EDC) ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane (EDB) ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane (EDB) ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane (EDB) ND 4.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Methylnaphthalene ND 4.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane ND 4.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroptopene ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroptopene ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroptopene ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichlorobenzene ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichlorobenzene ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichlorobenzene ND 1.0 μg/L 10 12/4/2021 3:	Benzene	4.9	1.0		μg/L	10	12/4/2021 3:56:00 PM
Ethylbenzene 5.8 1.0 μg/L 10 12/4/2021 3:56:00 PM Methyl tert-butyl ether (MTBE) NID 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2,4-Trimethylbenzene 4.3 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.3,5-Trimethylbenzene 3.6 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane (EDC) NID 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dichloroethane (EDC) NID 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dibromoethane (EDB) NID 1.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dibromoethane (EDB) NID 4.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dibromoethane (EDB) NID 4.0 μg/L 10 12/4/2021 3:56:00 PM 1.2-Dibromoethane NID 1.0 μg/L 10 12/4/2	Toluene	53	1.0			10	12/4/2021 3:56:00 PM
1.2,4-Trimethylbenzene 4.3 1.0 µg/L 10 12/4/2021 3:56:00 PM 1,3-5-Trimethylbenzene 3.6 1.0 µg/L 10 12/4/2021 3:56:00 PM 1,2-Dichloroethane (EDC) ND 1.0 µg/L 10 12/4/2021 3:56:00 PM 1,2-Dibromoethane (EDB) ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Naphthalene ND 4.0 µg/L 10 12/4/2021 3:56:00 PM 1-Methylnaphthalene ND 4.0 µg/L 10 12/4/2021 3:56:00 PM 2-Methylnaphthalene ND 4.0 µg/L 10 12/4/2021 3:56:00 PM Acetone ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromobenzene ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromoform ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromomethane ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromomethane ND 1.0 µg/L 10	Ethylbenzene	5.8	1.0			10	12/4/2021 3:56:00 PM
1.2,4-Trimethylbenzene 4.3 1.0 µg/L 10 12/4/2021 3:56:00 PM 1,3-5-Trimethylbenzene 3.6 1.0 µg/L 10 12/4/2021 3:56:00 PM 1,2-Dichloroethane (EDC) ND 1.0 µg/L 10 12/4/2021 3:56:00 PM 1,2-Dibromoethane (EDB) ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Naphthalene ND 4.0 µg/L 10 12/4/2021 3:56:00 PM 1-Methylnaphthalene ND 4.0 µg/L 10 12/4/2021 3:56:00 PM 2-Methylnaphthalene ND 4.0 µg/L 10 12/4/2021 3:56:00 PM Acetone ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromobenzene ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromoform ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromomethane ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromomethane ND 1.0 µg/L 10	Methyl tert-butyl ether (MTBE)	ND	1.0		. •	10	12/4/2021 3:56:00 PM
1,3,5-Trimethylbenzene 3.6 1.0 µg/L 10 12/4/2021 3:56:00 PM 1,2-Dichloroethane (EDC) ND 1.0 µg/L 10 12/4/2021 3:56:00 PM 1,2-Dibromoethane (EDB) ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Naphthalene ND 2.0 µg/L 10 12/4/2021 3:56:00 PM 1-Methylnaphthalene ND 4.0 µg/L 10 12/4/2021 3:56:00 PM 2-Methylnaphthalene ND 4.0 µg/L 10 12/4/2021 3:56:00 PM Acetone ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromodichloromethane ND 1.0 µg/L 10 12/4/2021 3:56:00 PM Bromoform ND 1.0 µg/L 10 12		4.3	1.0		. •	10	12/4/2021 3:56:00 PM
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1,3-Dichlorobenzene ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1,4-Dichlorobenzene ND 1.0 μg/L 10 12/4/2021 3:56:00 PM Dichlorodifluoromethane ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1,1-Dichloroethane ND 1.0 μg/L 10 12/4/2021 3:56:00 PM	1,2-Dichlorobenzene	ND	1.0			10	12/4/2021 3:56:00 PM
1,4-Dichlorobenzene ND 1.0 μg/L 10 12/4/2021 3:56:00 PM Dichlorodifluoromethane ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1,1-Dichloroethane ND 1.0 μg/L 10 12/4/2021 3:56:00 PM		ND	1.0			10	12/4/2021 3:56:00 PM
Dichlorodifluoromethane ND 1.0 μg/L 10 12/4/2021 3:56:00 PM 1,1-Dichloroethane ND 1.0 μg/L 10 12/4/2021 3:56:00 PM	•	ND				10	12/4/2021 3:56:00 PM
1,1-Dichloroethane ND 1.0 µg/L 10 12/4/2021 3:56:00 PM		ND					
,	1,1-Dichloroethane	ND	1.0				12/4/2021 3:56:00 PM
	•						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

Analytical Report Lab Order 2112291

Date Reported: 12/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Influent SVE05

 Project:
 Scott 4 M
 Collection Date: 12/3/2021 10:55:00 AM

 Lab ID:
 2112291-002
 Matrix: AIR
 Received Date: 12/4/2021 9:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
1,2-Dichloropropane	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
1,3-Dichloropropane	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
2,2-Dichloropropane	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
1,1-Dichloropropene	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
Hexachlorobutadiene	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
2-Hexanone	ND	10	μg/L	10	12/4/2021 3:56:00 PM
Isopropylbenzene	1.0	1.0	μg/L	10	12/4/2021 3:56:00 PM
4-Isopropyltoluene	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
4-Methyl-2-pentanone	ND	10	μg/L	10	12/4/2021 3:56:00 PM
Methylene chloride	ND	3.0	μg/L	10	12/4/2021 3:56:00 PM
n-Butylbenzene	ND	3.0	μg/L	10	12/4/2021 3:56:00 PM
n-Propylbenzene	1.1	1.0	μg/L	10	12/4/2021 3:56:00 PM
sec-Butylbenzene	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
Styrene	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
tert-Butylbenzene	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
1,1,2,2-Tetrachloroethane	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
trans-1,2-DCE	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
Trichloroethene (TCE)	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
Trichlorofluoromethane	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	10	12/4/2021 3:56:00 PM
Vinyl chloride	ND	1.0	μg/L	10	12/4/2021 3:56:00 PM
Xylenes, Total	64	1.5	μg/L	10	12/4/2021 3:56:00 PM
Surr: Dibromofluoromethane	101	70-130	%Rec	10	12/4/2021 3:56:00 PM
Surr: 1,2-Dichloroethane-d4	97.8	70-130	%Rec	10	12/4/2021 3:56:00 PM
Surr: Toluene-d8	109	70-130	%Rec	10	12/4/2021 3:56:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	10	12/4/2021 3:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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ANALYTICAL SUMMARY REPORT

December 14, 2021

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

Work Order: G21120161
Project Name: Not Indicated

Energy Laboratories Inc. Gillette WY received the following 2 samples for Hall Environmental on 12/8/2021 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G21120161-001	2112291-001B; Influent SVE01	12/02/21 11:00	12/08/21	Gas	Natural Gas Analysis - BTU Natural Gas Analysis - Compressibility Factor Natural Gas Analysis - GPM Natural Gas Analysis - Molecular Weight Natural Gas Analysis - Routine Natural Gas Analysis - Pressure Base Natural Gas Analysis - Psuedo- Critical Pressure Natural Gas Analysis - Psuedo- Critical Temperature Natural Gas Analysis - Specific Gravity Natural Gas Analysis - Temperature Base
G21120161-002	2112291-002B; Influent SVE05	12/03/21 10:55	12/08/21	Gas	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, 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.

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

Report Approved By:

Date Received: 12/08/21

LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental

Project:Not IndicatedReport Date:12/14/21Client Sample ID:2112291-001B; Influent SVE01Collection Date:12/02/21 11:00

Location:

Lab ID: G21120161-001 Sampled By: Not Provided

Analyses	Result Units	Qualifier Method	Analysis Date / By
NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT			
Oxygen	16.628 Mol %	GPA 2261	12/13/21 13:25 / djb
Nitrogen	70.376 Mol %	GPA 2261	12/13/21 13:25 / djb
Carbon Dioxide	1.028 Mol %	GPA 2261	12/13/21 13:25 / djb
Hydrogen Sulfide	< 0.001 Mol %	GPA 2261	12/13/21 13:25 / djb
Methane	10.784 Mol %	GPA 2261	12/13/21 13:25 / djb
Ethane	0.614 Mol %	GPA 2261	12/13/21 13:25 / djb
Propane	0.231 Mol %	GPA 2261	12/13/21 13:25 / djb
Isobutane	0.048 Mol %	GPA 2261	12/13/21 13:25 / djb
n-Butane	0.064 Mol %	GPA 2261	12/13/21 13:25 / djb
Isopentane	0.024 Mol %	GPA 2261	12/13/21 13:25 / djb
n-Pentane	0.015 Mol %	GPA 2261	12/13/21 13:25 / djb
Hexanes plus	0.188 Mol %	GPA 2261	12/13/21 13:25 / djb
GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS			
GPM Ethane	0.1640 gal/MCF	GPA 2261	12/13/21 13:25 / djb
GPM Propane	0.0630 gal/MCF	GPA 2261	12/13/21 13:25 / djb
GPM Isobutane	0.0160 gal/MCF	GPA 2261	12/13/21 13:25 / djb
GPM n-Butane	0.0200 gal/MCF	GPA 2261	12/13/21 13:25 / djb
GPM Isopentane	0.0090 gal/MCF	GPA 2261	12/13/21 13:25 / djb
GPM n-Pentane	0.0050 gal/MCF	GPA 2261	12/13/21 13:25 / djb
GPM Hexanes plus	0.0820 gal/MCF	GPA 2261	12/13/21 13:25 / djb
GPM Pentanes plus	0.0960 gal/MCF	GPA 2261	12/13/21 13:25 / djb
GPM Total	0.3590 gal/MCF	GPA 2261	12/13/21 13:25 / djb
CALCULATED PROPERTIES			
Calculation Pressure Base	14.730 psia	GPA 2261	12/13/21 13:25 / djb
Calculation Temperature Base	60 °F	GPA 2261	12/13/21 13:25 / djb
Compressibility Factor, Z	0.99900 unitless	GPA 2261	12/13/21 13:25 / djb
Molecular Weight	27.77 unitless	GPA 2261	12/13/21 13:25 / djb
Pseudo-critical Pressure, psia	560 psia	GPA 2261	12/13/21 13:25 / djb
Pseudo-critical Temperature, deg R	257 deg R	GPA 2261	12/13/21 13:25 / djb
Specific Gravity (air=1.000)	0.9620 unitless	GPA 2261	12/13/21 13:25 / djb
Gross BTU per cu ft @ std cond, dry	140.82 BTU/cu ft	GPA 2261	12/13/21 13:25 / djb
Gross BTU per cu ft @ std cond, wet	138.37 BTU/cu ft	GPA 2261	12/13/21 13:25 / djb

Report RL - Analyte Reporting Limit MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

Date Received: 12/08/21



LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental

Project:Not IndicatedReport Date: 12/14/21Client Sample ID:2112291-002B; Influent SVE05Collection Date: 12/03/21 10:55

Location:

Lab ID: G21120161-002 Sampled By: Not Provided

NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT Oxygen Nitrogen Carbon Dioxide Hydrogen Sulfide Methane Ethane	21.542 Mol % 77.841 Mol % 0.613 Mol % < 0.001 Mol %	GPA 2261 GPA 2261 GPA 2261 GPA 2261 GPA 2261 GPA 2261	12/13/21 13:44 / djb 12/13/21 13:44 / djb
Nitrogen Carbon Dioxide Hydrogen Sulfide Methane	77.841 Mol % 0.613 Mol % < 0.001 Mol %	GPA 2261 GPA 2261 GPA 2261 GPA 2261 GPA 2261 GPA 2261	12/13/21 13:44 / djb 12/13/21 13:44 / djb 12/13/21 13:44 / djb 12/13/21 13:44 / djb 12/13/21 13:44 / djb
Carbon Dioxide Hydrogen Sulfide Methane	0.613 Mol % < 0.001 Mol %	GPA 2261 GPA 2261 GPA 2261 GPA 2261 GPA 2261	12/13/21 13:44 / djb 12/13/21 13:44 / djb 12/13/21 13:44 / djb 12/13/21 13:44 / djb
Hydrogen Sulfide Methane	< 0.001 Mol % < 0.001 Mol % < 0.001 Mol % < 0.001 Mol % < 0.001 Mol %	GPA 2261 GPA 2261 GPA 2261 GPA 2261	12/13/21 13:44 / djb 12/13/21 13:44 / djb 12/13/21 13:44 / djb
Methane	< 0.001 Mol % < 0.001 Mol % < 0.001 Mol % < 0.001 Mol %	GPA 2261 GPA 2261 GPA 2261	12/13/21 13:44 / djb 12/13/21 13:44 / djb
	< 0.001 Mol % < 0.001 Mol % < 0.001 Mol %	GPA 2261 GPA 2261	12/13/21 13:44 / djb
Ethane	< 0.001 Mol % < 0.001 Mol %	GPA 2261	
	< 0.001 Mol %		12/13/21 13:44 / djb
Propane		GPA 2261	
Isobutane	< 0.001 Mol %		12/13/21 13:44 / djb
n-Butane	1 01001 11101 70	GPA 2261	12/13/21 13:44 / djb
Isopentane	< 0.001 Mol %	GPA 2261	12/13/21 13:44 / djb
n-Pentane	< 0.001 Mol %	GPA 2261	12/13/21 13:44 / djb
Hexanes plus	0.004 Mol %	GPA 2261	12/13/21 13:44 / djb
GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS			
GPM Ethane	< 0.0003 gal/MCF	GPA 2261	12/13/21 13:44 / djb
GPM Propane	< 0.0003 gal/MCF	GPA 2261	12/13/21 13:44 / djb
GPM Isobutane	< 0.0003 gal/MCF	GPA 2261	12/13/21 13:44 / djb
GPM n-Butane	< 0.0003 gal/MCF	GPA 2261	12/13/21 13:44 / djb
GPM Isopentane	< 0.0004 gal/MCF	GPA 2261	12/13/21 13:44 / djb
GPM n-Pentane	< 0.0004 gal/MCF	GPA 2261	12/13/21 13:44 / djb
GPM Hexanes plus	0.0020 gal/MCF	GPA 2261	12/13/21 13:44 / djb
GPM Pentanes plus	0.0020 gal/MCF	GPA 2261	12/13/21 13:44 / djb
GPM Total	0.0020 gal/MCF	GPA 2261	12/13/21 13:44 / djb
CALCULATED PROPERTIES			
Calculation Pressure Base	14.730 psia	GPA 2261	12/13/21 13:44 / djb
Calculation Temperature Base	60 °F	GPA 2261	12/13/21 13:44 / djb
Compressibility Factor, Z	1.0000 unitless	GPA 2261	12/13/21 13:44 / djb
Molecular Weight	28.97 unitless	GPA 2261	12/13/21 13:44 / djb
Pseudo-critical Pressure, psia	549 psia	GPA 2261	12/13/21 13:44 / djb
Pseudo-critical Temperature, deg R	241 deg R	GPA 2261	12/13/21 13:44 / djb
Specific Gravity (air=1.000)	1.003 unitless	GPA 2261	12/13/21 13:44 / djb
Gross BTU per cu ft @ std cond, dry	0.22 BTU/cu ft	GPA 2261	12/13/21 13:44 / djb
Gross BTU per cu ft @ std cond, wet	0.21 BTU/cu ft	GPA 2261	12/13/21 13:44 / djb

Report RL - Analyte Reporting Limit MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Gillette, WY Branch

Work Order: G21120161 Client: Hall Environmental **Report Date: 12/14/21**

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD RP	DLimit	Qual
Method:	GPA 2261							Analyti	cal Run:	R268490
Lab ID:	ICV-2110130824	Initial Calibrat	ion Verification	on Standard					12/13	/21 08:24
Oxygen		0.393	Mol %	0.001	98	75	110			
Nitrogen		5.137	Mol %	0.001	102	90	110			
Carbon Dic	oxide	4.901	Mol %	0.001	99	90	110			
Hydrogen S	Sulfide	0.124	Mol %	0.001	125	100	136			
Methane		73.196	Mol %	0.001	100	90	110			
Ethane		5.001	Mol %	0.001	101	90	110			
Propane		5.006	Mol %	0.001	100	90	110			
Isobutane		1.987	Mol %	0.001	99	90	110			
n-Butane		1.967	Mol %	0.001	98	90	110			
Isopentane)	0.985	Mol %	0.001	98	90	110			
n-Pentane		0.995	Mol %	0.001	99	90	110			
Hexanes pl	lus	0.308	Mol %	0.001	102	90	110			
Lab ID:	CCV-2112130829	Continuing Ca	alibration Ver	ification Standa	ard				12/13	3/21 08:29
Oxygen		0.605	Mol %	0.001	101	90	110			
Nitrogen		1.290	Mol %	0.001	92	85	110			
Carbon Dic	oxide	0.955	Mol %	0.001	96	90	110			
Hydrogen S	Sulfide	0.025	Mol %	0.001	100	70	130			
Methane		93.548	Mol %	0.001	100	90	110			
Ethane		1.016	Mol %	0.001	102	90	110			
Propane		1.012	Mol %	0.001	101	90	110			
Isobutane		0.496	Mol %	0.001	99	90	110			
n-Butane		0.496	Mol %	0.001	99	90	110			
Isopentane)	0.200	Mol %	0.001	100	90	110			
n-Pentane		0.201	Mol %	0.001	100	90	110			
Hexanes pl	lus	0.156	Mol %	0.001	104	90	110			
Lab ID:	CCV-2112131444	Continuing Ca	alibration Ver	ification Standa	ard				12/13	3/21 14:45
Oxygen		0.619	Mol %	0.001	103	90	110			
Nitrogen		1.337	Mol %	0.001	96	85	110			
Carbon Dic	oxide	0.957	Mol %	0.001	96	90	110			
Hydrogen S	Sulfide	0.026	Mol %	0.001	104	70	130			
Methane		93.505	Mol %	0.001	100	90	110			
Ethane		1.012	Mol %	0.001	101	90	110			
Propane		1.009	Mol %	0.001	101	90	110			
Isobutane		0.492	Mol %	0.001	98	90	110			
n-Butane		0.491	Mol %	0.001	98	90	110			
Isopentane)	0.198	Mol %	0.001	99	90	110			
n-Pentane		0.199	Mol %	0.001	99	90	110			
Hexanes pl	lus	0.155	Mol %	0.001	103	90	110			
Method:	GPA 2261								Batch:	R268490
Lab ID:	G21120161-001ADUP	Sample Dupli	cate			Run: Varia	n GC_211213A		12/13	/21 13:30
Oxygen		16.634	Mol %	0.001				0.0	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental Work Order: G21120161 Report Date: 12/14/21

Analyte		Result	Units	RL	%REC Low Li	mit Hi	gh Limit	RPD	RPDLimit	Qual
Method: GPA 226	1								Batch:	R268490
Lab ID: G211201	1 61-001ADUP Sa	mple Dupli	cate		Run: V	arian G	C_211213A		12/13	3/21 13:30
Nitrogen		70.386	Mol %	0.001				0.0	10	
Carbon Dioxide		1.027	Mol %	0.001				0.1	10	
Hydrogen Sulfide		< 0.001	Mol %	0.001					10	
Methane		10.770	Mol %	0.001				0.1	10	
Ethane		0.613	Mol %	0.001				0.2	10	
Propane		0.231	Mol %	0.001				0.0	10	
Isobutane		0.048	Mol %	0.001				0.0	10	
n-Butane		0.064	Mol %	0.001				0.0	10	
Isopentane		0.024	Mol %	0.001				0.0	10	
n-Pentane		0.015	Mol %	0.001				0.0	10	
Hexanes plus		0.188	Mol %	0.001				0.0	10	
Lab ID: G211201	1 61-002ADUP Sa	mple Dupli	cate		Run: V	arian G	C_211213A		12/13	3/21 13:49
Oxygen		21.542	Mol %	0.001				0.0	10	
Nitrogen		77.841	Mol %	0.001				0.0	10	
Carbon Dioxide		0.614	Mol %	0.001				0.2	10	
Hydrogen Sulfide		< 0.001	Mol %	0.001					10	
Methane		< 0.001	Mol %	0.001					10	
Ethane		< 0.001	Mol %	0.001					10	
Propane		< 0.001	Mol %	0.001					10	
Isobutane		< 0.001	Mol %	0.001					10	
n-Butane		< 0.001	Mol %	0.001					10	
Isopentane		< 0.001	Mol %	0.001					10	
n-Pentane		< 0.001	Mol %	0.001					10	
Hexanes plus		0.003	Mol %	0.001				29	10	R

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

Trust our People. Trust our Data. www.energylab.com Billings, MT **800.735.4489** • Casper, WY **888.235.0515** Gillette, WY **866.686.7175** • Helena, MT **877.472.0711**

Work Order Receipt Checklist

Hall Environmental

G21120161

Login completed by:	Chantel S. Johnson		Date	e Received: 12/8/2021	
Reviewed by:	Misty Stephens		R	eceived by: csj	
Reviewed Date:	12/9/2021		Ca	arrier name: FedEx	
Shipping container/cooler in	good condition?	Yes √	No 🗌	Not Present	
Custody seals intact on all s	hipping container(s)/cooler(s)?	Yes ✓	No 🗌	Not Present	
Custody seals intact on all s	ample bottles?	Yes	No 🗌	Not Present ✓	
Chain of custody present?		Yes ✓	No 🗌		
Chain of custody signed wh	en relinquished and received?	Yes ✓	No 🗌		
Chain of custody agrees wit	h sample labels?	Yes ✓	No 🗌		
Samples in proper container	r/bottle?	Yes ✓	No 🗌		
Sample containers intact?		Yes ✓	No 🗌		
Sufficient sample volume for	Yes ✓	No 🗌			
All samples received within (Exclude analyses that are c such as pH, DO, Res Cl, Su	considered field parameters	Yes 🗸	No 🗌		
Temp Blank received in all s	shipping container(s)/cooler(s)?	Yes	No 🗌	Not Applicable 🗹	
Container/Temp Blank temp	erature:	°C			
Containers requiring zero he bubble that is <6mm (1/4").	eadspace have no headspace or	Yes	No 🗌	No VOA vials submitted	\checkmark
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable 🔽	
pH, Dissolved Oxyger Solid/soil samples are data units are typically and ground prior to sa	analytes considered field p n and Residual Chlorine, a e reported on a wet weight y noted as –dry. For agricu	re qualified as basis (as rece Itural and mir	s being analyz eived) unless : ning soil paran	ed outside of recommespecifically indicated. In neters/characteristics,	ended holding time. f moisture corrected,
	·				
Contact and Corr	rective Action Comm	ents:			

None



CHAIN OF CUSTODY RECORD PAGE 1

Hall Environmental Analysis Laboratory
4901 Hawkins NE

4901 Hawkins NE Albuquerque, NM 87109 TEL. 505-345-3975

Website clients hallenvironmental.com

FAX 505-345-4107

ITEM CITY, STATE, ZIP SUB CONTRATOR Energy Labs-Gillette ADDRESS: 2112291-002B Influent SVE05 2112291-001B Influent SVE01 SAMPLE Gillette, WY 82718 400 W Boxelder Rd CLIENT SAMPLE ID COMPANY **Energy Laboratories** TEDLAR TEDLAR BOTTLE TYPE P Ąř MATRIX 123/2021 10:55:00 AM | 1 Natural Gases O2, CO2 *RUSH 5 DAY TAT* 12/2/2021 11:00:00 AM COLLECTION DATE PHONE ACCOUNT # 1 Natural Gases O2, CO2 *RUSH 5 DAY TAT* # CONTAINERS (866) 686-7175 ANALYTICAL COMMENTS FMAIL. FAX

	Please include the LAB I Relinquished By Relinquished By Relinquished By	D and the CLIENT S Date Date	Time 10:31 AM Time	Received By Received By	Date:	Time Time	Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you. Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you. Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you. Please return all coolers and blue ice. Thank you. REPORT TRANSMITTAL DESIRED DALOE Time HARDCOPY (extra cost) FAX HARDED DALOE HARDCOPY (extra cost) FAX HARDCOPY (extra
TAT: Standard . RUSH Next BD . 2nd BD . 3rd BD . 3rd BD .	Reimquished By	Date		actived By	Date:	Time	∏ FAX ☐ EMAIL
TAT: Standard . RUSH Next BD . 2nd BD . 3rd BD .		7			2	15/3	FOR LAB USE ONLY
Standard . , RUSH Next BD . Znd BD . 3rd BD .	Reimquished By	Date	! 	TO THE WAY	1 120120		Term of complex
	TAT	Standard 🔲	RUSH	ſ			remb or samples
				i.			7,000 - 444 - 1

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2112291 15-Dec-21

WO#:

Client: HILCORP ENERGY

Project: Scott 4 M

Sample ID: 2112291-001adup SampType: DUP TestCode: EPA Method 8260B: Volatiles

Client ID: Influent SVE01 Batch ID: R83289 RunNo: 83289

Prep Date: Analysis Date: 12/4/2021 SeqNo: 2961483 Units: µg/L

Prep Date:	Analysis D	Date: 12	2/4/2021	9	SeqNo: 29	961483	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	48	10						0.626	20	
Toluene	320	10						0.809	20	
Ethylbenzene	31	10						1.78	20	
Methyl tert-butyl ether (MTBE)	ND	10						0	20	
1,2,4-Trimethylbenzene	13	10						5.22	20	
1,3,5-Trimethylbenzene	11	10						9.68	20	
1,2-Dichloroethane (EDC)	ND	10						0	20	
1,2-Dibromoethane (EDB)	ND	10						0	20	
Naphthalene	ND	20						0	20	
1-Methylnaphthalene	ND	40						0	20	
2-Methylnaphthalene	ND	40						0	20	
Acetone	ND	100						0	20	
Bromobenzene	ND	10						0	20	
Bromodichloromethane	ND	10						0	20	
Bromoform	ND	10						0	20	
Bromomethane	ND	20						0	20	
2-Butanone	ND	100						0	20	
Carbon disulfide	ND	100						0	20	
Carbon tetrachloride	ND	10						0	20	
Chlorobenzene	ND	10						0	20	
Chloroethane	ND	20						0	20	
Chloroform	ND	10						0	20	
Chloromethane	ND	10						0	20	
2-Chlorotoluene	ND	10						0	20	
4-Chlorotoluene	ND	10						0	20	
cis-1,2-DCE	ND	10						0	20	
cis-1,3-Dichloropropene	ND	10						0	20	
1,2-Dibromo-3-chloropropane	ND	20						0	20	
Dibromochloromethane	ND	10						0	20	
Dibromomethane	ND	20						0	20	
1,2-Dichlorobenzene	ND	10						0	20	
1,3-Dichlorobenzene	ND	10						0	20	
1,4-Dichlorobenzene	ND	10						0	20	
Dichlorodifluoromethane	ND	10						0	20	
1,1-Dichloroethane	ND	10						0	20	
1,1-Dichloroethene	ND	10						0	20	
1,2-Dichloropropane	ND	10						0	20	
1,3-Dichloropropane	ND	10						0	20	
2,2-Dichloropropane	ND	10						0	20	
• •										

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2112291 15-Dec-21

WO#:

Client: HILCORP ENERGY

Project: Scott 4 M

Sample ID: 2112291-001adup SampType: DUP TestCode: EPA Method 8260B: Volatiles

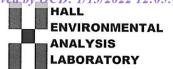
Client ID: Influent SVE01 Batch ID: R83289 RunNo: 83289

				-						
Prep Date:	Analysis D	Date: 12	2/4/2021	5	SeqNo: 29	961483	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	10						0	20	
Hexachlorobutadiene	ND	10						0	20	
2-Hexanone	ND	100						0	20	
Isopropylbenzene	ND	10						0	20	
4-Isopropyltoluene	ND	10						0	20	
4-Methyl-2-pentanone	ND	100						0	20	
Methylene chloride	ND	30						0	20	
n-Butylbenzene	ND	30						0	20	
n-Propylbenzene	ND	10						0	20	
sec-Butylbenzene	ND	10						0	20	
Styrene	ND	10						0	20	
tert-Butylbenzene	ND	10						0	20	
1,1,1,2-Tetrachloroethane	ND	10						0	20	
1,1,2,2-Tetrachloroethane	ND	10						0	20	
Tetrachloroethene (PCE)	ND	10						0	20	
trans-1,2-DCE	ND	10						0	20	
trans-1,3-Dichloropropene	ND	10						0	20	
1,2,3-Trichlorobenzene	ND	10						0	20	
1,2,4-Trichlorobenzene	ND	10						0	20	
1,1,1-Trichloroethane	ND	10						0	20	
1,1,2-Trichloroethane	ND	10						0	20	
Trichloroethene (TCE)	ND	10						0	20	
Trichlorofluoromethane	ND	10						0	20	
1,2,3-Trichloropropane	ND	20						0	20	
Vinyl chloride	ND	10						0	20	
Xylenes, Total	300	15						2.81	20	
Surr: Dibromofluoromethane	100		100.0		104	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	100		100.0		105	70	130	0	0	
Surr: Toluene-d8	110		100.0		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	100		100.0		100	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	HILCORP ENERGY	Work Order Num	ber: 2112291		RcptNo:	1
Received By:	Sean Livingston	12/4/2021 9:45:00	AM	Sala		
Completed By:	Sean Livingston	12/4/2021 10:22:46	6 AM	Sala	_/	
Reviewed By:	See 12/4/21					
Chain of Cus	tody					
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In 3. Was an attern	npt made to cool the samp	les?	Yes 🗌	No 🗆	NA 🗹	
4. Were all samp	oles received at a tempera	ture of >0° C to 6.0°C	Yes	No 🗆	NA 🗹	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗆		
6. Sufficient sam	ple volume for indicated to	est(s)?	Yes 🗸	No 🗆		
7. Are samples (except VOA and ONG) pro	operly preserved?	Yes 🗸	No 🗌		
8. Was preserva	tive added to bottles?		Yes	No 🗹	NA 🗆	
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹	
10. Were any san	nple containers received b	roken?	Yes		# of preserved	
	ork match bottle labels? ancies on chain of custody)	Yes 🗹		oottles checked for pH: (<2 or >	12 unless noted)
12. Are matrices of	correctly identified on Chai	n of Custody?	Yes 🗸	No 🗆	Adjusted?	
	t analyses were requested	?	Yes 🗸	No 🗌		
	ng times able to be met? ustomer for authorization.)		Yes 🗸	No 🗆	Checked by: S	C 12/4/21
Special Handl	ing (if applicable)					
15. Was client no	tified of all discrepancies	with this order?	Yes	No 🗆	NA 🗹	
Person	Notified:	Date				
By Who	om:	Via:	eMail P	hone 🗌 Fax 📗	In Person	
Regardi		Employed to the construction of the constructi			AND THE PERSON NAMED IN COLUMN	
	nstructions:					
16. Additional rer	marks:					
17. Cooler Infor	of Editors and the Control of the Co					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
Į I	NA Good			no execution of the contract o		

Received by OCD: 1/13/2022	12:05:42 PM		Page 25 of 26
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	EDB (Method 504.1) PAHs by 8310 or 8270SIMS	SE SE SE SE SE SE SE SE	Stuart. Inde @ WSP.com Lavin, Menamen & WKG.com.
1901 H	7081 Pesticides/8082 PCB's		NS.
	STEX / MTBE / TMB's (8021)		ossibilit
Esults by XRush 12-10-21	(°C) (°C) (°C) (°C) (°C)	(224) (20) (20) (30)	$\frac{12/3}{2} / 2 / 1 / 460$ Date Time $(2/4/7) = 9.4 $
iii iii iii iii ii ii ii ii ii ii ii ii	Perservative		Via:
Turn-Around Time: Standard Project Name: \$\inc C_0 \frac{1}{4} \tau\$ Project #:	8 >	2-Tedlar L L L	Received by: Vi
Chain-of-Custody Record Client: Lilcorp Allm. Mitch Killough Mailing Address:	Fax#: ackage: ard □ Level 4 (Full Validation) ttion: □ Az Compliance C □ Other Type) ₹ \(\text{Type} \) Type) \(\text{Type} \) Matrix Sample Name	1 100 Air Influent SVEOI 21 1055 Air Influent SVEOS 22 1055 Air Influent SVEOS 23 1055 Air Influent SVEOS	Time: Relinquished by: 1143

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 72212

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	72212
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created Bv	Condition	Condition Date
nvelez	Accepted for the record. See App ID 124691 for most updated status.	10/3/2022