REVIEWED By Mike Buchanan at 2:57 pm, Apr 05, 2024



January 12, 2024

New Mexico Oil Conservation Division

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

Re: Fourth Quarter 2023 – SVE System Update San Juan 32-9 #41A San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident No: NAPP2108949980

To Whom it May Concern:

Review of the Fourth Quarter 2023--SVE System Update for San Juan 32-9 #41A: Content Satisfactory 1. Continue to conduct O&M as Hilcorp has scheduled. 2. Continue to operate system and install pitot tubes as planned. Please include notes for installation in next report submission. 3. Submit next quarterly

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

SVE SYSTEM SPECIFICATIONS

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

SYSTEM STARTUP AND FOURTH QUARTER 2023 ACTIVITIES

The SVE system began operation on October 9, 2023. Based on the New Mexico Oil Conservation Division (NMOCD) Conditions of Approval (COAs), dated March 29, 2023, field data measurements were collected from the system daily for the first week of operation and then weekly thereafter for the remainder of October, November, and December 2023. Field measurements included the following parameters: total system flow, estimated flow rates from each SVE well, photoionization detector (PID) measurements of volatile organic compounds (VOCs) from each SVE well, vacuum measurements from each SVE well, and oxygen/carbon dioxide measurements via hand-held analyzers from each SVE well. Field notes taken during operations and maintenance (O&M) visits are presented in Appendix A.

Since startup, all Site SVE wells were operated in order to induce flow in impacted soil zones. Between October 9 and December 28, 2023, the SVE system operated for 1,914.8 hours for a

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runtime efficiency of 100 percent (%). Appendix B presents photographs of the runtime meter for calculating the fourth quarter 2023 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percent runtime.

Based on the March 2023 COAs, initial air samples were collected on October 9 and 10, 2023 from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. After startup, samples were collected weekly for the first month of operation and then bi-weekly (once every two weeks) through the end of the fourth guarter of 2023. Prior to collection, the emission sample was field screened with a PID for organic vapor monitoring (OVM). The emission sample was collected directly into two 1-Liter Tedlar® bags and submitted to Hall Environmental Analysis Laboratory (now Eurofins Environment Testing) in Albuquergue, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH - also known as total petroleum hydrocarbons - gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, VOCs following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. Tables 2 and 3 present a summary of field measurements and analytical data, respectively, collected between October and December 2023. Note: analytical data from the last sampling event on December 28, 2023, has not been received from the laboratory; this data will be included in the following quarterly report. Full laboratory analytical reports are attached as Appendix C. Graphs 1 and 2 present oxygen and carbon dioxide levels over time, respectively.

Air sample data and measured influent flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 4). Based on these estimates, 2,388 pounds (1.19 tons) of TVPH have been removed by the system to date. No phase-separated hydrocarbons were recovered from the system during the O&M and sampling period described above.

DISCUSSION AND RECOMMENDATIONS

Accurate flow measurements at SVE01 and SVE02 could not be obtained during the fourth quarter of 2023 due to the rotameters being undersized and oversized, respectively. Ensolum has purchased pitot tubes to replace the individual well rotameters and will install the new flow measurement devices in first quarter of 2023 in order to obtain more accurate data on the individual well legs.

Despite an increase in total system flow rate throughout the quarter, a decrease in mass removal rate was observed during the first quarter of system operation, as is expected following initial startup. Mass removal remains above 10 pounds per day of petroleum hydrocarbons.

Monthly O&M visits and bi-monthly (every other month) sampling events will continue to be performed by Ensolum and/or Hilcorp personnel to ensure the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following quarterly report.



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

Sincerely,

Ensolum, LLC

Stuart Hyde, LG Senior Geologist (970) 903-1607 shyde@ensolum.com

Daniel R. Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Attachments:

Figure 1 Figure 2	Site Location Map SVE System Radius of Influence and Radius of Effect
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Field Measurements
Table 3	Soil Vapor Extraction System Air Analytical Results
Table 4	Soil Vapor Extraction System Mass Removal and Emissions
Graph 1	Oxygen vs Time
Graph 2	Carbon Dioxide vs Time

- Appendix A Field Notes
- Appendix B Project Photographs
- Appendix C Laboratory Analytical Reports





FIGURES

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TABLES AND GRAPHS



TABLE 1

SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

San Juan 32-9 #41A

Hilcorp Energy Company

San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours	Days	Percent Runtime
10/9/2023	1.3			
12/28/2023	1,916.1	1,914.8	80	100%

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	TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS San Juan 32-9 #41A Hilcorp Energy Company														
			San J	uan County, New N	lexico										
SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾	Vacuum (IWC)	Oxygen (%)	Carbon Dioxide (%)							
	10/9/2023	1,783	3.4	161	99	88.0	20.9	0.00							
_	10/10/2023	1,646	3.4	161	99	90.0	20.9	0.00							
_	10/13/2023	667	4.1	177	118	62.0	20.1	0.62							
	10/19/2023	2,143	4.9	194	133	52.0	20.5	0.40							
	10/26/2023	195	5.2	199	137	52.0									
Influent, All Wells	10/31/2023	440	5.2	199	138	49.0									
	11/8/2023	422	5.2	199	136	52.0	19.8	0.00							
	11/16/2023	541	5.2	199	137	51.7									
	11/28/2023	91	5.3	201	137	54.4									
	12/7/2023	231	6.0	214	147	50.0									
	12/13/2023	317	5.6	207	141	54.4									
_	10/9/2023	1,816			34	72.1	20.9	0.00							
_	10/10/2023	1,734			38	73.4	20.9	0.00							
_	10/13/2023	395			>50	39.0	20.9	0.22							
_	10/19/2023	435			>50	26.0	20.7	0.28							
	10/26/2023	116			>50	26.0	20.2	0.00							
SVE01	10/31/2023	368			>50	1.8	20.5	0.18							
	11/8/2023	437			>50	22.0	20.0	0.08							
	11/16/2023	514			>50	21.7	19.2	0.18							
	11/28/2023	55			>50	22.7	19.8	0.02							
	12/7/2023	240			>50	22.7	19.1	0.06							
	12/13/2023	137			>50	22.7	19.2	0.00							
	10/9/2023	307			2	80.7	20.9	0.00							
	10/10/2023	291			2	83.8	20.9	0.00							
	10/13/2023	84			<2	48.0	20.9	0.16							
	10/19/2023	28			<2	46.0	20.9	0.28							
-	10/26/2023	46				48.0	20.7	0.00							
SVE02	10/31/2023	8			3	3.2	20.9	0.04							
-	11/8/2023	49			5	44.0	19.6	0.54							
-	11/16/2023	95			2	36.5	19.1	0.46							
	11/28/2023	108			3	37.5	19.6	0.04							
	12/7/2023	66			5	39.0	19.1	0.10							
	12/13/2023	50			2	39.0	19.1	0.16							
	10/9/2023	524			26	76.3	20.1	0.00							
	10/10/2023	411			24	77.2	19.2	0.00							
	10/13/2023	448			18	43.0	20.3	0.64							
-	10/19/2023	180			14	38.0	20.7	0.34							
-	10/26/2023	77			14	52.0	20.3	0.00							
SVE03	10/31/2023	63			14	35.4	20.9	0.04							
∥ ⊦	11/8/2023	312			14	36.0	19.1	0.72							
∥ ⊦	11/16/2023	315			14	29.4	19.1	0.26							
∥ ⊦	11/28/2023	48			14	33.2	19.6	0.06							
∥ ⊦	12/7/2023	134			30	32.0	19.0	0.24							
	12/13/2023	112			14	36.2	19.1	0.14							

Notes:

(1): individual well flow rates in scfm estimated based on rotometer field measurements

(2): total system flow rates in scfm calculated based on pitot tube differential pressure measurements

IWC: inches of water column

PID: photoionization detector

ppm: parts per million

acfm: actual cubic feet per minute

scfm: standard cubic feet per minute

%: percent

--: not measured

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E N S O L U M

TABLE 3 SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS San Juan 32-9 #41A Hilcorp Energy Company San Juan County, New Mexico													
Date	PID (ppm)	Benzene (µg/L)	Toluene (μg/L)	ne Ethylbenzene Total Xylenes .) (µg/L) (µg/L)		TVPH/GRO (µg/L)	Oxygen (%)	Carbon Dioxide (%)					
10/9/2023	1,574	46	130	13	130	17,000	19.92%	1.81%					
10/10/2023	1,483	17	73	7.6	76	13,000	20.56%	1.03%					
10/19/2023	397	<5.0	39	<5.0	110	5,400	21.40%	0.42%					
10/31/2023	440	<1.0	14	2.0	73	2,100	21.49%	0.35%					
11/8/2023	422	<0.50	12	2.0	92	3,400	21.56%	0.28%					
11/16/2023	541	<5.0	9.6	<5.0	64	2,600	21.43%	0.23%					
11/28/2023	91	<0.10	0.91	0.14	6.6	350	21.67%	0.06%					
12/13/2023	317	<0.5	3.3	0.60	27.0	1,400	21.72%	0.18%					

Notes:

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GRO: gasoline range hydrocarbons

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

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

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TABLE 4 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS San Juan 32-9 #41A Hilcorp Energy Company San Juan County, New Mexico

Laboratory Analysis

Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH (μg/L)
10/9/2023	1,574	46	130	13	130	17,000
10/10/2023	1,483	17	73	7.6	76	13,000
10/19/2023	397	5.0	39	5.0	110	5,400
10/31/2023	440	1.0	14	2.0	73	2,100
11/8/2023	422	0.50	12	2.0	92	3,400
11/16/2023	541	5.0	10	5.0	64	2,600
11/28/2023	91	0.10	0.91	0.14	6.6	350
12/13/2023	317	0.50	3.3	0.60	27.0	1,400
Average	658	9	35	4.4	72	5,656

Date	Flow Rate (scfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (Ib/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (Ib/hr)	TVPH (lb/hr)
10/9/2023			Startup					
10/10/2023	99	152,658	152,658	0.0117	0.038	0.0038	0.038	5.6
10/19/2023	133	1,872,348	1,719,690	0.0048	0.024	0.0027	0.040	4.0
10/31/2023	138	4,228,836	2,356,488	0.00152	0.0134	0.00177	0.046	1.9
11/8/2023	136							
11/16/2023	137	7,402,578	3,173,742	0.00154	0.0061	0.00180	0.035	1.21
11/28/2023	137	9,767,472	2,364,894	0.00131	0.0027	0.00132	0.0181	0.76
12/13/2023	141	12,791,076	3,023,604	0.00015	0.0011	0.00019	0.0086	0.45
			Average	0.0035	0.014	0.0019	0.031	2.3

				Mass Recovery						
Date	Total Operational Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)		
10/9/2023				System	Startup					
10/10/2023	26	26	0.30	0.97	0.098	0.98	143	0.071		
10/19/2023	241	216	1.03	5.2	0.59	8.7	860	0.43		
10/31/2023	526	285	0.43	3.8	0.50	13.2	541	0.27		
11/8/2023										
11/16/2023	912	386	0.60	2.3	0.69	13.6	467	0.23		
11/28/2023	1,200	288	0.38	0.77	0.38	5.2	217	0.109		
12/13/2023	1,557	357	0.05	0.39	0.07	3.1	3.1 160 0			
	Total Ma	ss Recovery to Date	2.8	13.5	2.3	45	2,388	1.19		

Notes:

cf: cubic feet

scfm: cubic feet per minute

 μ g/L: micrograms per liter

lb/hr: pounds per hour

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

--: not measured

gray: laboratory reporting limit used for calculating emissions

.







APPENDIX A

Field Notes

Page 15 of 122 Received by OCD: 1/12/2024 11:24:23 AM Location 5J 32-9 #41A Date 10-5-23 3 Project / Client HEC DB Truck tools, HER, Generator, Welder 1430-Onsite to install SVE manifold I remediation well piping. Two of the 1'z unions are cracked. Need replacements. 1630- Offsite 10-6-23 1415-Onsite to continue SVE manifold install Need to replace exhaust so temp gauge can be installed. 1620- Offsite Hrs mtr Q Ort

Rite in the Rain.

Page 16 of 122 Received by OCD: 1/12/2024 11:24:23 AM Location 5J 32-9 #41A Date 10-5-23 3 Project / Client HEC DB Truck tools, HER, Generator, Welder 1430-Onsite to install SVE manifold tremediation well piping. Two of the 1'z unions are cracked. Need replacements. 1630- Offsite 10-6-23 1415-Onsite to continue SVE manifold install Need to replace exhaust so temp gauge can be installed. 1620- Offsite Hrs mtr Q Ort

Rite in the Rain.

Received by OCD: 1/12/2024 11:24:23 AM Page 17 of 122 Location 55 32-9 41A Date 10-9-23 4 Project / Client HEL Sonny 705 DB Truck/toob, HVAS, PID, 6-gas 1000- Onsite For SVE system start up Review HASP, stan JSA. Hours meter is located on electrical panel on northwest corner of pad. -Start up system at (2:30. His meter @0.1 Total flow - 62 serm Vac - 88 in Mrd Exhaust PID-2,461 ppm Temp - 150 F Diff. Pressure - 3.4 in H2O KO Tark-empty 03 SVEDI 02 Influent 26 2 62 34 Flow (SCFM) 80.7 76.3 72.1 88 Vac (in tho) 524 307 1,816 1,783 PID (ppm) 45 1258 140 755 315 (Hy (ppm) 20.1 OXY (vol %) 20.9 20.9 20.9 0.0 0.0 0.0 H2S (ppm) 0.0 10 CO (ppm) 0 0 D 1.40 O CO2 (vol %) D 0 1530 - Influent 10-9-23 collected PID- 1,574 Rew 1600-0ffsite

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Received by OCD: 1/12/2024 11:24:23 Page 18 of 122 55 32-9 H41A Date 10-10-23 5 Partly cloudy, 70s DB Truck/tools, HVAS, PID, 6-yas 0945-Onsite For week I SVE OHM Review HASP, JSA. System running upon arrival. SVE parameters @ 11:00 Total Flow- 64 SCEM 90 m H20 Vac -Exhaust PID-2,387 ppm Temp- 155.F Diff. Press - 3.4 in Hzo KO Tank - empty, some liquids in rotameters. 03 Influent SVED) 02 24 38 Flow (SCEM) 64 77.2 83.8 73.4 Vac (in.Hel) 90 411 291 1,734 1,646 PID (ppm) 1,800 140 750 300 CHy (ppm) 19.2 20.9 20.9 Oxy (vol %) 20.9 0.0 0.0 H2S (ppm) 0.0 0.0 15 O (U (ppm) 0 0 1.38 0 (02 (vol %) 0 10-10-23 1520 - Influent PID-1,483 ppm 1540 - Offsite Hours Rite in the Rain

Page 19 of 122 Location 55 32-9 #41A Date 10-11-23 Cloudy, 70's Project / Client HEC DB Truck/fools, HVAS. PID, 6-gas 1145- Onsite for week I SVE OAM startup Review HASP, sogn JSA. System running upon arrival. SVE Parameters @ 12:30 70 SCFM Total Flow -76 in M20 Vac 2,271 Echast PID 145 F Temp -4.0 in H20 Diff. Pressure 2" visible, liquid in rotameters KO Tank -02 03 Influent 01 42 24 44 70 Flow sefm 60 64 67 76 in.HzO Vac 753 153 671 1,371 PID ppm 510 2,450 4,050 (thy ppm 5,700 18.5 20.2 19.8 Oxy vol% 19.2 0.0 0.0 HS ppm 0.0 0.0 18 15 (0) ppm 0 \mathcal{O} (02 (.62)Vol% 1.00 0.36 0.62 8. T.LEL 0 CHy 4 5 greased plower bearings 1505 - His - 49.0 Officite Released to Imaging: 4/5/202

Received by OCD: 1/12/2024 11:24:23 AM Page 20 of 122 SJ 32-9 41A Date 10-12-23 Project / Client HEC Breezy, fart cloudy SU'S DB Truck, HUAS, PID, 6-gas 1030-Onsite for Week 1 OtM Review HASP+ 3 SA System running upon arrival. 11:00 SVE Varameters 70 Total Flow SCFM 68 ac inH20 2,359 Echaust PID ppm 125 ·F Temp Diff. Pressure int/20 - 4.0 KO Tank - 2.5 in, lig. in rotamaters 03 03 02 SVEO I Infly. 18 50 2 70 Flow SCFM 54 66 46 68 Vac inthe 256 52 842 1,178 11D ppm 550 0 3,050 4,050 ppm (Hu 20.5 20.3 19.5 20.2 vel% 0.0 0.0 0.0 0.6 1.5 pem 0 0 8 fpm. U CO 0.74 0.64 0.18 0.30 CO2 vol 1. 4 4 4 1.LEL CH. 11:50 -HOS 1200 - Offsit 29

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Location SJ 32-9 #41A Date 10-13-23

Project / Client <u>HEC</u>

EC, Truck, HVAS, PED, G-Gas Sunny los 11:20 EC ONSIGE FOR WEEKI OBM System on & running JSA CAI PID 100 PPM SVE Parameters FLOW TO SCEM Vac 62 INC ELLAPID Temp 160°F Diffpres 4-1 INC in sight glass KOTant 2 5/8 SUE SUE 02 OB SVÉ OT Flow schn Inf 48 43 39 Vac The 62 PIP ppm 667 395 83,6 448 0/44 ppm 3500 980 195 1010 20.1 20.9 20,9 20.3 O2 %Val 0 0 0 0 Has ppm 8 0 0 CC ppm CONVOL 0.62 CHYPRIEL 4 FIDWSCFM 70 0.22 0.14 0.64 3 1 2 18 FIDWSCFM 12:30 OFF 5160 Hours 94. 4 017:25

Rite in the Rain.

Page 22 of 122 Location SJ 32-9 #41A Date 10-19-23 Project / Client HEC Sunny, 805 DB Truck, HUAS, PD, 6-Gas HART, JEA, 1415 - Onsite for weekly OTM. System running upon arrival SVE Parameters @ 14:30 Total Flow SEFM - 66 Vac 11. H20 - 52 Exhaust PID ppm - 2,143 Temp - F - 140 Diff. Press. InH20 - 4.94 KO Tunk - ~1" in tube, some liquids in rotameter svE02 03 02 SVEOI Influend ×2 14 >50 66 FLOW SKFM 38 46 52 26 Van intl20 (ID ppm 28 180 * 397 435 2300 2,150 (Hy ppm 290 640 20.7 20.9 20.5 20.7 Dxy Vo/1. 0.0 0:0 0.0 FLS 0.0 8pm 0 0 0 CO 0 ppm 0.28 0.28 0.34 0.40 $(0_2$ vol% - 4 -8 (0?) -7 -3 1.LEL CH4 10-19-23 collected 1500- Influent * PID - 397 Hrs@ 241.2 1515- Offsite Released to Imaging: 4/5/2024 3:22:47 MM bears 5, need oil

	10/11/2027	SAN JUAN 32-9 14 TA SV O&M FORM	Sy L.				
DA TIME ONSI	TE: 10/36/201	O&M PERSONNEL TIME OFFSITE	DOO				
	12 ¹⁰	SVE SYSTEM - MONTH	ILY O&M	1			
SVE ALARM	MS: some	KO TANK HIGH LEVEL	and the second second	non	L		
Contract of the second second		Check/Date					
WEEKLY MAINTENANC	CE: Blower Bearing Greas	se 10/26/2023	3				
SVE SYSTEM	READING	TIME	-				
Blower Hours (take phot	to) 405.0	1106					
Total Flow (scf	m)						
Inlet Vacuum (IH	6) 52 IUC/ 1.8Hg		-				
Inlet P	10 432.1						
Exhaust P	ID 515.5						
Exhaust Inlet Temperatu	re 1270F						
K/O Liquid Drained (gallon		4	- Marine La Ar				
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and the second					
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SAMPLE IE Analytes OPERATING WELL Change in Well Operation:	S No Change	SAMPLE TIME ery other week) for TVPH (8	: 015), BTEX (8260), F	Fixed Gas (C	02 AND 02)		
SAMPLE IE Analytes OPERATING WELL Change in Well Operation: WELLHEAD MEASUREMENTS	Sample Bi-Weekly (even since a second	SAMPLE TIME ery other week) for TVPH (8	: 015), BTEX (8260), F	Eixed Gas (C	02 AND 02)	1 4,5	
SAMPLE ID Analytes OPERATING WELL Change in Well Operation: WELLHEAD MEASUREMENTS WELL ID	S Sample Bi-Weekly (even S No Change S VACUUM (IHG)	SAMPLE TIME ery other week) for TVPH (8 PID HEADSPACE (PPM)	: 015), BTEX (8260), F FLOW (CFM)	Exed Gas (C	02 AND 02)	Has	6
SAMPLE ID Analytes OPERATING WELL Change in Well Operation: WELLHEAD MEASUREMENTS WELL ID SVE01 SVE02	S VACUUM (IHG) S VACUUM (IHG) S VACUUM (IHG) S VACUUM (IHG) S S VACUUM (IHG) S S VACUUM (IHG) S S S S S S S S S S S S S	SAMPLE TIME ery other week) for TVPH (8 PID HEADSPACE (PPM)	5015), BTEX (8260), F FLOW (CFM) >50	CHin Day 0	02 AND 02)	Has	(c
SAMPLE II Analytes OPERATING WELL Change in Well Operation: WELLHEAD MEASUREMENTS WELL ID SVE01 SVE02 SVE02 SVE03	S VACUUM (IHG) S VACUUM (IHG) S VACUUM (IHG) S VACUUM (IHG) JG JWC/ J.7 Hg UB JWC/ J.7 Hg JG JWC/ J.7 Hg	SAMPLE TIME ery other week) for TVPH (8 PID HEADSPACE (PPM) (157,5 46 72,1	615), BTEX (8260), F FLOW (CFM) >50	CHiq De O 145 pm	02 AND 02)	Has Offer Oppu	Cc 0,,, 0,,
SAMPLE IE Analytes OPERATING WELL Change in Well Operation: WELLHEAD MEASUREMENTS WELL ID SVE01 SVE01 SVE02 SVE03 Tullt	Sample Bi-Weekly (evi S No Change S VACUUM (IHG) 26 June / 1.9 Hg 48 June / 7.7 Hg 38 June / 7.8 Hg/ 52 Jule / 3.8 Hg/ 52 Jule / 3.8 Hg/	SAMPLE TIME ery other week) for TVPH (8 PID HEADSPACE (PPM) (157,5 46 77,1 432,1	5015), BTEX (8260), F FLOW (CFM) >50 14	С Ни С Ни 290 145 рлл 195	02 AND 02) 03 102 20.77 20.77 20.77 10.372 19 97	Has Office Open	Cc 0,, 0,
SAMPLE ID Analytes OPERATING WELL Change in Well Operation: WELL ID SVE01 SVE02 SVE03 Tullt OMMENTS/OTHER MAINTEN	S Sample Bi-Weekly (evi S No Change S VACUUM (IHG) 26 Juc / 1.9 Hg 18 Juc / 3.7 Hg 18 Juc / 3.8 Hg 53 Jul / 3.8 Hg IANCE:	SAMPLE TIME ery other week) for TVPH (8 PID HEADSPACE (PPM) (157, 5 46 77, 1 432, 1	015), BTEX (8260), F FLOW (CFM) > 50 IH	С Ніц С Ніц Эдо 145 рля 175 рля 195 рля	02 AND 02) 03 7017 20.77 20.77 20.77 19.37 19.82	Has Offer Open Open Open	Cc 0,, 0,, 0,,
SAMPLE II Analytes OPERATING WELL Change in Well Operation: WELL ID SVE01 SVE02 SVE03 Tulet SVIE Od Crac bypcrs o Julet Thermel	Sample Bi-Weekly (evi S No change S VACUUM (IHG) 26 Jun / 1.9 Hg 18 Jun / J.8 Hg 53 JUN / J.8 Hg 138 JUN / J.8 Hg 139 JUN / J.8 Hg 139 JUN / J.8 Hg 130 JUN / J.8 Hg 140 JUN / J.8 H	SAMPLE TIME ery other week) for TVPH (8 PID HEADSPACE (PPM) (157,5 46 77,1 432,1 upstream of = 74000 fp	FLOW (CFM) >50 14 	CHiq De O 145 pm 175 pm 195 pm	02 AND 02)	Has Offer Open Open Offer Offer Offer Offer	C 00000
SAMPLE IE Analytes OPERATING WELL Change in Well Operation: WELLHEAD MEASUREMENTS WELL ID SVE01 SVE02 SVE03 Fulct COMMENTS/OTHER MAINTEN SVE03 Crac bypers o Julet Thermel	Sample Bi-Weekly (evi S No change S VACUUM (IHG) 26 June / 1.9 Hg 18 June / 1.9 Hg 38 June / 1.9 Hg 38 June / 1.9 Hg 19 June / 1.	SAMPLE TIME ery other week) for TVPH (8 PID HEADSPACE (PPM) (15.5 46 77.1 432.1 upstream of = 74000 fp	015), BTEX (8260), F FLOW (CFM) >50 	C Hin C Hin Dao 145 pm 175 pm 195 pm - man	02 AND 02)	Hass Offer Offer Offer Offer Offer Offer Offer Offer	CC 05800
SAMPLE II Analytes OPERATING WELL Change in Well Operation: WELLHEAD MEASUREMENTS WELL ID SVE01 SVE02 SVE03 Trilet SVIE Od Crac bypers o Julet Thermel	Sample Bi-Weekly (evi S No change S VACUUM (IHG) 26 Juc / 1.9 Hg 48 Juc / 3.7 Hg 38 Juc / 3.8 Hg SATENC/ 3.8 Hg IANCE: La coupler f air Flow Anemometer	SAMPLE TIME ery other week) for TVPH (8 PID HEADSPACE (PPM) (15,5 46 77,1 432,1 upstream of = 74000 fp	FLOW (CFM) >50 	CHiq Dao 145 pm 175 pm 195 pm	02 AND 02)	Hiss Open Open Office Office Office Office Office Office	CC 00000000000000000000000000000000000
SAMPLE II Analytes OPERATING WELL Change in Well Operation: WELL ID SVE01 SVE02 SVE03 Tulet SVE03 SVE03 Tulet SVE03 Crac bypcrs o Julet Thermel	Sample Bi-Weekly (evi S No change S VACUUM (IHG) 26 June / 1.9 Hg 48 June / 3.7 Hg 38 June / 3.8 Hg 53 JUNE / 3.8 Hg IANCE: La Coupler f GIR Flow Anemometer	SAMPLE TIME ery other week) for TVPH (8 PID HEADSPACE (PPM) (15,5 46 77,1 432,1 upstream of = 74000 fp	FLOW (CFM) >50 14 14 годинско мебј €	CHiq De O 145 pm 175 pm 195 pm	02 AND 02)	Hiss Offer Open Open Offer Offer Offer	(10) (10) (10) (10) (10) (10) (10) (10)

Received by OCD: 1/12/2024 11:24:23 AM Location 55 32-9 # 41A Date (0/26/2023 Location 57°F /12ht Wind Project / Client Hilcorp, Sunny S7°F, light Wind GMC 1500, PID, Hgas, 6-gas, HUAS 1100-Onsite, completed JSA and Calibrated PID & Sunray site -System on upon arrival -O+M parameters collected/recorded on O+M form Offsile 1200 1200 Released to Imaging: 4/5/2024 3:22:17 PM

Received by OCD: 1/12/2024 11:24:23 AM Page 25 of 122 Location 5) 32-9 #41 A Date 10-31-13 Project / Client H.l.@rp 45°, Sunny truck, PID, 6- yas, 4-ges, HUAS, sample Lat 1130 - onsite for OHM and sampling JSA signed, PID albanted, HVA5 cleaned - System running upon arriver, parametes idiated on OFM form -2 x tallar bas sas semples "San Juan 32-9 #41 A Influent" at 1300 1300 low site - Replace SUE 01 rotaneter to 0-100 scFM TODO Released to Imaging: 4/5/2024 3:22:17 PM

		414		ΕN	S C		JM
		SUNRAY B 1B SVE S	YSTEM				
		O&M FORM					
DATE: TIME ONSITE:	10-31-23	O&M PERSONNEL TIME OFFSITE	Zach M 1300	78		-	
		SVE SYSTEM - MONTH	ILY O&M				
SVE ALARMS:		KO TANK HIGH LEVEL]	
		Check/Date	1				
WEEKLY MAINTENANCE	Blower Rearing Grease	Check/Date	-				
UARTERLY MAINTENANCE:	Blower Oil Change		-				
	blower on ondrige]				
SVE SYSTEM	READING	TIME	1				
Blower Hours (take photo)	525.8	1150	1				
Total Flow (scfm)	~ 76.5		1				
Inlet Vacuum (IHG)	3.6]				
Differential Pressure (IWC)	5.2]				
Inlet PID	440						
Exhaust PID	725						
en exhaust - Inlet Temperature	46 C						
K/O Tank Liquid Level	-	<u> </u>	1				
KO Liquid Drained gallons)	-]				
		WE EVETEN OUADTED					
SAMDI E ID:	3	CAMPLE TIME	TSAMPLING				
Analytes:	Sample BLWeekty (eve	SAMPLE TIME:	15) BTEX (8260)	Fixed Gas (CO	2 4ND 02		
OPERATING WELLS	Sample Driveekiy (eve	youre week/ or iveriloo	(13), BIEX (0200),	1 1200 043 (00			
Change in Well Operation: WELLHEAD MEASUREMENT	s						
WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXI	GEN	CARBON	DIOXIDE
SVE01	1.8	35-2 368	750	20	MS	0.0	18
SVE02	Mar 3.2	8.1	2.5	20	2.7	0.00	
SVE03	2.6	H-6-62.8	14	20		0.0	24
COMMENTS/OTHER MAINTE	NANCE						
Flow on SVEC -blower unit o	reased	, would be ~ 60) schn i z	the was	an adequ	t sink	
-2x tedlar	bas sample	5 taken "C	San Jum T	32-91	1-41A	+ In Pl.	rent"

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ENSOLUM JOB SAFETY AND ENVIRO	THIMPNTAL ANALYSIS (JSEA) - TASK HAZARD ASSESSMENT FORM	
This table of Hazards and Controls can assist the work group to manage hazards for t work conditions will be used. Determine the Hazards that are present for the hash out	the proposed work. The table does not include all possible hazards. It Identify the Control to be implemented	is expected that the required PPE for the activity and
Chanter Science Science John 32-9 # 6 1 A Enterpency Contact Reduined Book Science / 13 1 B Level D 4-55 General Struct D	Inter 19 19 200 000 00 00 00 00 00 00 00 00 00 00 0	Muster Point outrand to sufe
Principal Principal Description 2/Vehicle Main Chick Description	Patented States	Exi (Myster
Billion Tres and Fails	Erer 27 / 12 Wildlife avoid the R Tors/hendron 5 5 Unpredictable weather with Dree (5	t
oreas proves to moreas prove isotat in my inverse that a - line of first tolks zones plan trips tails	how of spectron to wall very to an instantion	1
Collegenesisters on workers with Strads ins needs	C Working in rural locations Working C でいう コード Accelerations atmosphere 日子 どうしょい。	I undred spaces
Formal Reas Rid Migden	Printi Bas	Sea 1 Higgsin
 Stemula contact with sun and eyes and or innaliation of reports 	trappinger careful hand	phanent turn all occupined belie touch
Gas build up in well casing Domestic Water Well Remotion		
Preside Rates Red Brighton	C Printed Roke	
 Hand Injury Pets / Livestock 	Chemical contact with skin and eyes and/or inhalation of vapors	All Repairs



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ENSOLUM	JOB SAFETY AND ENVIRONMENTAL ANALYSIS (JSEA) - TASK HAZ	ZARD ASSESSMENT FORM
this table of Hazards and Controls can assist the work work conditions will be used. Determine the Hazards the	group to manage hazards for the proposed work. The table does not inc hat are present for the task and identify the Controls to be implemented.	lude all possible hazards. It is expected that the required PPE for the activity and
Client/Facility:	Emergency Contact Info Date:	Muster Point:
Required PPE:	H&S Manager - Janay Melancon (318)-268-0668 PM -) 31 -23
TASK (Description of task not described above)	POTENTIAL HAZARDS (What could go wrong?)	HAZARDS CONTROLS (How can harm be prevented?)
Signatures		
Lessons Learned and Improvements	Everyone onsite has Stop-Work Au	thority
in section below	describe difficulties encountered while performing this task; or any activities, s the future,	steps, or safeguards (including PPE) that could be improved if this task is performed again in
ENSOLUM		



Client:	Hour h Hour h g Addrès	00000 2 alla 2 bl 3:	Mitch Killogh	Turn-Around Standard Project Nam San Do Project #:	d Time: 5-04 d Rus he: 16n 3)	я hя 9 #41 Ая	دی 		901 F	Hawk	HA N. www ins N 45-39	LL AL V.halle IE	EN YS] enviro Albuc Fax	VI IS onme querq < 50	RC LA ental.c jue, N 5-345	ONN BOI om M 871 -4107	Page IEN RAT	29 of TAI OR	122 L Y
Phone	e #:		8									An	alysi	s Re	ques	t			
	QA/QC Package: Standard Level 4 (Full Validation)			Project Man shyde	ager: Stuar	t tiple =	s (8021)	9/MRO)	PCB's		SIMS	a 00	4, 504		(/Absent)	C			
Accrea	ditation: LAC D (Type)	□ Az C □ Othe	ompliance	Sampler: On Ice: # of Coolers:	□ Yes	□ No	3E / TMB	GRO/ DR	des/8082	d 504.1)	10 or 8270	als 0, NO, I	1 17	(A)	n (Present	\$ (0)			
Date	Time	Matrix	Sample Name	Cooler Temp Container Type and #	O(including CF): Preservative Type	(°C) HEAL No.	BTEX / MTE	CPH:8015D(3081 Pestici	EDB (Metho	AHs by 831	CLKA 8 Met	260 (VOA)	270 (Semi-V	ptal Coliforr	C Nox			
10/31/23	1300	A.C	San Jun 37-9#41A /	put 2xta	la	*		7					17	8	F	1			
			~							-	+ 3		ľ						H
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			Si 98 S		<i>~</i> 2														H
			2No 445	.10															T
Date: Ti	606 me: R		by:	eceived by:	Via:	Date Time 10/31/73 /606 Date Time	Ren	Z Z	m	18.15	* • •	en M	ەد		A. C.	in	Aller:	14 14 14 14 14 14 14 14 14 14 14 14 14 1	

Released to Transfing: 4/5/2024 3:22:17 PM acted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Page 30 of 122 Location SJ 32-9 #41A Date 11-8-23 Project / Client HEC DB - Truck, PID, 4-gas, HVAS, sample. 1015-Onsite for OHM System running upon arrival. Load up extra FIDPE piping to use at Standard #1. SVE Parameters @ 11:00 Total Flow SCFM - 69 52 Vac in. HzO -Exhaust PID ppm- 526 Temp .F - 120 - 5.17 Diff. Press. in H2U KO Tank - zero visible in tube, some lig in SVE 02+03 rotameters. 03 02 Influent 01 14 5 >50 69 Flow SCFM 44 36 22 52 Vac INC 49 312 437 422 PID PPM 0 0 0 0 CH4 IPM 19.6 19.1 20.0 19.8 Oxy vol7. 0.0 0.0 0.0 0.0 H2S PPM 0 0 0 Ó CO PPM 0.72 0.54 008 0.24 CO2 vol1. -4 -10 - 11 -11 (Hy Y.LEL PW-422 12:10 - Influent 11-8-23 collected -greased bearings. Released to Imaging 45/2024 3:22:17 PM AFSIT Rite in the Rain.

Received by OCD: 1/12/2024 11:24:23 AM Page 31 of 122 Location 5] 32-9 UW 41A Date 11-16-23 Project / Client ZIM, tuck + but, 4-4, 6-05 HVAS, sample ket, PID 1145 on site for Q+M and Samplins -PID clibrated JSA siged System running upon arrival Parametes on Otm form SVEDI value partly clared, of fily closed upon arival verified in Daning Borns they should be open and recorded parameters sundal 2xted or bas samples "Son Juan 32-9#41A Inflort" at 1245 -Notified operator and turned off system to great done motor - All values open, system on then leaving, 911.9 hours 1300 leaving site for Smary Released to Imaging: 4/5/2024 3:22:17 PM



*				ENS	OLU
	ЧIА	SVE SYSTEM O&M FORM			
DATE: TIME ONSITE:	11-16·23 N:45	O&M PERSONNEL: 2	Zach My		
	,	SVE SYSTEM - MONTHL	YO&M		
SVE ALARMS:	None KO	TANK HIGH LEVEL	Si	ist tube end	<i>b</i> //
	Ch	eck/Date			
WEEKLY MAINTENANCE:	Blower Bearing Grease	11-16			
QUARTERLY MAINTENANCE:	Blower Oil Change	_			
SVE SYSTEM		TIME			
Blower Hours (take photo) Total Flow (scfm)	VAA2 >66	1200			
Inlet Vacuum (IHG)	18003.8	1			
Differential Pressure (IWC)	5.2			0.20	
Inlet PID	541 m		19.2 vol 8. 02	En vd 4. CO.	2
Exhaust PID	956 pm				
ether st Inlet Jemperature	125				1
K/O Tank Liquid Level	no liquid intohe	\mathbb{V}			
K/O Liquid Drained (gallons)					
	SVE	SYSTEM - QUARTERLY	SAMPLING		
SAMPLE ID:		SAMPLE TIME:			1
Analytes:	Sample Bi-Weekly (every c	other week) for TVPH (801	5), BTEX (8260), Fixed	Gas (CO2 AND O2)	
OPERATING WELLS					
Change in Well Operation:					
WELLHEAD MEASUREMENT	s WC			vol	%
WELL ID	VACUUM (HLG)_ P	ID HEADSPACE (PPM)	FLOW (CFM)		CARBON DIOXIDE
SVE01	21.7	514	> >0	4.2	6.18
SVE02	36.5	44.6	2	19.1	0.96
SVE03	29.4	315	14	14.1	0.26
I ot of the mainten 10to of the do sed and re-op - a cased by	NCE: 02 rotav 02 RMy clos 2001 and re and retar	nett, flusted sed upon appiv 2 measured	ost el. ver: fred t	they should be	re open

Date 15 Received by OCD: 1/12/2024 11:24:24 AM ZM Truck + tools, 4-205, 6-30, HVAS, PID 1130 on side Armina Project / Client Hilosop \\$1 Sign c-lbrat anna UPON sem Bunni OW collacte e est moter after de actuation Grew 4.5 sallons brown water Dramed Imk KO lae line volves open, system on when leaving SA 1230 leaving Released to Imaging: 4/5/2024 3 22:17 PM

D: 1/12/2024 11:24:23	4 <i>M</i>			ī	undig P	Page 34 of 122
#41 A		ENSOLUM				
,		SVE SYSTEM O&M FORM				
DATE	1-22		Zach M	Ø		
	1130		1230	po		
	([
		SVE SYSTEM - MONTHLY	D&M			
SVE ALARMS:	h/a ki	D TANK HIGH LEVEL	L	n/a		
	c	heck/Date				
WEEKLY MAINTENANCE: B	lower Bearing Grease	11-22-23				
QUARTERLY MAINTENANCE:	Slower Oil Change					
SVE SYSTEM	READING	TIME			· · · ·	
Blower Hours (take photo)	1,054.6	11:45			1	
Total Flow (scfm)	>65	11:45				
Inlet Vacuum (IHG)	3,6	11:45				
Differential Pressure (IWC)	5.5	11:45		0		
DOM Inlet PID	225.4	12:05	19.6 00 %	02,0.12	CO2	
Exhaust PID	637	11:45				
gehaust inter emperature	112°F	11:45				
K/O Tank Liquid Level	"in solt tube	11:45				
K/O Liquid Drained (gallons)	4.5	12:15				
	S	VE SYSTEM - QUARTERLY	SAMPLING			
SAMPLE ID:		SAMPLE TIME:				
Analytes:	Sample Bi-Weekly (ever	other week) for TVPH (801	5), BTEX (8260), Fixe	d Gas (CO2 AND O2)		
OPERATING WELLS						
		-1				
Change in Well Operation:	nd cha	nge				
		U U			0/	
WELLHEAD MEASUREMENTS	sWC			VO		
WELL ID	VACUUM (HHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE	
SVE01	21.4	328.	750	10	0.12	
SVE02	36.6	42.1	2	10/	0.0	
SVE03	30,7	154	12	11.6		
COMMENTS/OTHER MAINTE	NANCE:	0 1	10 tanh			
grease motor	idram lin	es and 1		_		
-						

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tt ()		SVE SYSTEM O&M FORM	4
DATE	1-28-22	> 08M PERSONNEL:	Zach 11-25
TIME ONSITE:	1200	TIME OFFSITE:	1315
		SVE SYSTEM - MONTH	LY O&M
SVE ALARMS:		KO TANK HIGH LEVEL	
		Charle (Data	
	Diana Diana Cara	11-28	
WEEKLY MAINTENANCE:	Blower Bearing Grease	<u> </u>	
QUARTERLY MAINTENANCE:	Blower Oil Change		
SVE SYSTEM	READING	TIME	
Blower Hours (take photo)	1,199.6	1300	
Total Flow (scfm)	>67	1210	
Inlet Vacuum (IHG)	4.0	1210	
Differential Pressure (IWC)	5.3	1210	
Inlet PID	91.2	1230	19.8 Val & O2, 0.02 (02
Exhaust PID	386	1210	
EX Intel-Temperature	100 F	1210	
K/O Tank Liquid Level	1" In sight lbe	1300	
K/O Liquid Drained (gallons)	Ч.5	1305	
			SAMPLING
SAMPLE ID:	In Juan 32-9	SAMPLE TIME:	1245
	#414 Infloom		

Change in Well Operation:	/				
WELLHEAD MEASUREMENTS	()) vv ()	C	V. 1 %		
WELL ID	VACUUM (PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	22.7	55.0	>5()	19.8	0.02
SVE02	37.5	108	3	19.6	0.04
SVE03	33.2	47.8	14	19.6	0.06

COMMENTS/OTHER MAINTENANCE:



Received by OCD: 1/12/2024 11:24:23 AM Date 1-28-23 #41 A Project / Clien ZM. trude, 435.635. HAS PID, somplehof 1200 more for SUE green O HM and Sampling -Al Thomason and br SPC to have been Exhaust stack on grand oppers inscrewed not briken -adding a sport rold be held? System ranning upon arrival all value pon Parameter on O+M term Flushel fluide from vaccom lives - droined 4.5 gallows from KO tank -re-attacked exhaust -graved blone mote - 2x taller bag somple & Dram 32-9#41A Influent PLD 9,2 Restart system - system running upon departire all values open 135 leaving site

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Client:	hian			Standard	□ Rush					F A		LL Ai	E	NV STS	/IF 5	RO AF	NN BO	1EI RA		L RY
me		51.1.		Project Name	э:		1					. ha					~~~			
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email o	or Fax#:			Project Mana	ager: Stan	+ + le	⊊	Ô					04			nt)				
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Star	ndard		Level 4 (Full Validation)	Shyde	@ Phoolui	M.Com	3) 3)	ò	РС		NIS(РО	+		It/A				
Accred	litation:	🗆 Az Co	ompliance	Sampler: Zach Marce			IMB	/ DR	082	,	827(10 2,			eser	7			
🗆 NEL	_AC	Othe	r	On Ice: Ves No				R	es/8	504	P	s	ے غ	5	(A)	P,	ŭ			
	EDD (Type)			# of Coolers:				(Gl	cid	po	310	eta	2	2	i-V	E	2			
				Cooler Temp(including CF): (°C)			Σ	150	esti	let	<u>v</u>	8	۳,	Q	3er	olife	া			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX /	ТРН:80	8081 P	EDB (N	PAHs b	RCRA	CI, F, F	8260 (\	8270 (5	Total C	Dixal			
NACE	DLIC	0.5	Saulin 3: -9#41A Influent	Dytellar				X						X						
1-0/	2	1		2 norm			+	1.5						\sim						
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	5532	- 9 H UIA SVE SYSTEN O&M FORM		EN	SC) L U I
DATE: TIME ONSITE:	12/7/27 17:00	O&M PERSONNEL	Rece Hans	an		
		SVE SYSTEM - MONT	HLY O&M			
SVE ALARMS:	_	KO TANK HIGH LEVEL		-		
WEEKLY MAINTENANCE: UARTERLY MAINTENANCE:	Blower Bearing Grease Blower Oil Change	Check/Date	_			
SVE SYSTEM	READING]			
Total Flow (scfm)	85	13:10	-			
Inlet Vacuum (HHG)	50	17:1/	-			
Differential Pressure (IWC)	6	17:15	02 (02			
Inlet PID	231	13:25	19.1 0.10			
Exhaust PID	383	17:37	1			
Inlet Temperature	NA	NA	1			
K/O Tank Liquid Level	Empty Sta	e tabe	1			
K/O Liquid Drained (gallons)	~ 2']			
		SVE SYSTEM - QUARTERL	Y SAMPLING			
SAMPLE ID:		SAMPLE TIME:				
Analytes:	Sample Bi-W eekly (eve	ery other week) for TVPH (80	15), BTEX (8260), Fixed Ga	s (CO2 AND O2	2)	
OPERATING WELLS	01,02,	٥٦				
SAMPLE ID: Analytes: OPERATING WELLS Change in Well Operation:	Sample Bi-Weekly (eve 01,02, eare 11	SAMPLE TIME: sy other week) for TVPH (80 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	115), BTEX (8260), Fixed Ga	<u>s (CO2 AND O2</u>	2)	

WELLHEAD MEASUREMENTS

	TWC		SCFA		
WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	22.7	240	>50	19.1	0.06
SVE02	39.0	66	5	19.1	0.10
SVE03	32	134	30	19.0	0.24

COMMENTS/OTHER MAINTENANCE:



Released to Imaging: 4/5/2024 3:22:17 PM

Rite in the Rain.

Received by OCD: 1/12/2024 11:24:23 AM



Received by OCD: 1/12/2024 11:24:23 AM Page 41 of 122 Location 5) 32-9 41A Date 12-13-23 clarly, rain 19 400 Project / Client Hilcorp ZM truck 4-55 6-85 HVAS, PID -JSA sized PID alibrated System running: hours at Parameters recorded on OHM Bru Opento notified and system shut down to greese blower motor Letaller bag simpler "Son Din 32-9#41 Ainflort" taken at 1120 PID 317 ppm 140 leaving site Released to Imaging: 4/5/2024 3:22:17 PM



SAN JUAN 32-9 #41A SVE SYSTEM 0&M FORM

DATE: TIME ONSITE:	12.20-23	O&M PERSONNEL:	DBurns 1430		
		SVE SYSTEM - MONTHL	Y O&M		
SVE ALARMS:		KO TANK HIGH LEVEL			
WEEKIY MANYEN MAR		Check/Date			
QUARTERLY MAINTENANCE:	Blower Bearing Grease Blower Oil Change				
SVE SYSTEM	READING	TIME			
Blower Hours (take photo)	1726.9	1310			
Inlet Vacuum (IHG)	60				
Differential Pressure (IWC)	5.8				
Exhaust PID					
Exhans the Temperature	100				
K/O Tank Liquid Level	2114				
K/O Liquid Drained (gallons)	6 921				
	S	VE SYSTEM - QUARTERLY	SAMPLING		
SAMPLE ID:		SAMPLE TIME:			
OPERATING WELLS	Sample Bi-Weekly (eve	ery other week) for TVPH (801	5), BIEX (8260), Fixe	d Gas (CO2 AND O2	2)
Change in Well Operation:					
WELLHEAD MEASUREMENTS	3				1
SVE01	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01		++			
SVE02		++			
COMMENTS/OTHER MAINTEN	ANCE:				
B. Hall (mate to	put temp h	eat trace	onti) Tart

Released to Imaging: 4/5/2024 3:22:17 PM

and a start of the start of the

Received by OCD: 1/12/2024 11:24:23 AM Location 5 32-9 41A Page 43 of 122 Date 12-28 Project / Client H. LCON ZM, truck, 4.80, 635 HUAS, PID 1140 onste Br OHM and sample - JSH sigel, PW calibratel System runn 2 1916.1 hours at 230 - exhaust stack on sime Darane tos recided in OHM for -lower schole 80 fitty on exhaust broken needs replacent System shit down to great bloner motor 20 teller bre ges cample "Som Jum 32-9 #41 A Intuent" at 1215 1240 learn ste

Released to Imaging: 4/5/2024 3:22:17 PM

Rete in the Kain

Received by OCD: 1/12/2024 11:24:23 AM

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

 SVE01
 33.3
 275
 >50
 19.1
 0.02

 SVE02
 L[L].%
 29.9
 5
 19.1
 0.00

 SVE03
 38.1
 70.8
 15
 19.1
 0.08

COMMENTS/OTHER MAINTENANCE

48" high x 22" diameter drum KO lower Sdedule 80 f. Fins on exhaust stock boston, needs replacement

Released to Imaging: 4/5/2024 3:22:17 PM



APPENDIX B

Project Photographs





APPENDIX C

Laboratory Analytical Reports



November 02, 2023

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: San Juan 32 9 41 A

OrderNo.: 2310677

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/13/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

2310677-001

San Juan 32 9 41 A

Project:

Lab ID:

Analytical Report Lab Order 2310677

Hall Environmental Analysis Laboratory, Inc.

Matrix: AIR

Date Reported: 11/2/2023

Client Sample ID: Influent 10-9-23 Collection Date: 10/9/2023 3:30:00 PM Received Date: 10/13/2023 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	17000	250	µg/L	50	10/20/2023 11:56:54 AM
Surr: BFB	208	15-412	%Rec	50	10/20/2023 11:56:54 AM
EPA METHOD 8260B: VOLATILES					Analyst: JR
Benzene	46	5.0	µg/L	50	10/19/2023 11:40:37 AM
Toluene	130	5.0	µg/L	50	10/19/2023 11:40:37 AM
Ethylbenzene	13	5.0	µg/L	50	10/19/2023 11:40:37 AM
Methyl tert-butyl ether (MTBE)	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,2,4-Trimethylbenzene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,3.5-Trimethylbenzene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1.2-Dichloroethane (EDC)	ND	2.0	ua/L	50	10/19/2023 11:40:37 AM
1.2-Dibromoethane (EDB)	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
Naphthalene	ND	10	ua/L	50	10/19/2023 11:40:37 AM
1-Methvlnaphthalene	ND	20	ua/L	50	10/19/2023 11:40:37 AM
2-Methylnaphthalene	ND	20	ua/L	50	10/19/2023 11:40:37 AM
Acetone	ND	50	ua/L	50	10/19/2023 11:40:37 AM
Bromobenzene	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
Bromodichloromethane	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
Bromoform	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
Bromomethane	ND	10	ua/L	50	10/19/2023 11:40:37 AM
2-Butanone	ND	50	ua/L	50	10/19/2023 11:40:37 AM
Carbon disulfide	ND	50	ua/L	50	10/19/2023 11:40:37 AM
Carbon tetrachloride	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
Chlorobenzene	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
Chloroethane	ND	10	ua/L	50	10/19/2023 11:40:37 AM
Chloroform	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
Chloromethane	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
2-Chlorotoluene	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
4-Chlorotoluene	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
cis-1.2-DCE	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
cis-1.3-Dichloropropene	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
1.2-Dibromo-3-chloropropane	ND	10	ua/L	50	10/19/2023 11:40:37 AM
Dibromochloromethane	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
Dibromomethane	ND	10	ua/L	50	10/19/2023 11:40:37 AM
1.2-Dichlorobenzene	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
1.3-Dichlorobenzene	ND	5.0	ua/L	50	10/19/2023 11:40:37 AM
1,4-Dichlorobenzene	ND	5.0	µa/L	50	10/19/2023 11:40:37 AM
Dichlorodifluoromethane	ND	5.0	µa/L	50	10/19/2023 11:40:37 AM
1,1-Dichloroethane	ND	5.0	µa/L	50	10/19/2023 11:40:37 AM
1,1-Dichloroethene	ND	5.0	μg/L	50	10/19/2023 11:40:37 AM

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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits Р

Sample pH Not In Range

RL Reporting Limit Page 1 of 4

2310677-001

San Juan 32 9 41 A

Project:

Lab ID:

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2310677

Date Reported: 11/2/2023

Client Sample ID: Influent 10-9-23
Collection Date: 10/9/2023 3:30:00 PM
Received Date: 10/13/2023 6:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: JR
1,2-Dichloropropane	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,3-Dichloropropane	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
2,2-Dichloropropane	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,1-Dichloropropene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
Hexachlorobutadiene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
2-Hexanone	ND	50	µg/L	50	10/19/2023 11:40:37 AM
Isopropylbenzene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
4-Isopropyltoluene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
4-Methyl-2-pentanone	ND	50	µg/L	50	10/19/2023 11:40:37 AM
Methylene chloride	ND	15	µg/L	50	10/19/2023 11:40:37 AM
n-Butylbenzene	ND	15	µg/L	50	10/19/2023 11:40:37 AM
n-Propylbenzene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
sec-Butylbenzene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
Styrene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
tert-Butylbenzene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
Tetrachloroethene (PCE)	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
trans-1,2-DCE	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
trans-1,3-Dichloropropene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,2,3-Trichlorobenzene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,2,4-Trichlorobenzene	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,1,1-Trichloroethane	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
Trichloroethene (TCE)	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
Trichlorofluoromethane	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
1,2,3-Trichloropropane	ND	10	µg/L	50	10/19/2023 11:40:37 AM
Vinyl chloride	ND	5.0	µg/L	50	10/19/2023 11:40:37 AM
Xylenes, Total	130	7.5	µg/L	50	10/19/2023 11:40:37 AM
Surr: Dibromofluoromethane	93.3	70-130	%Rec	50	10/19/2023 11:40:37 AM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	50	10/19/2023 11:40:37 AM
Surr: Toluene-d8	94.4	70-130	%Rec	50	10/19/2023 11:40:37 AM
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	50	10/19/2023 11:40:37 AM

Matrix: AIR

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits

Р Sample pH Not In Range Reporting Limit

RL

Page 2 of 4

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D

Analytical Report Lab Order 2310677

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/2/2023 Client Sample ID: Influent 10-10-23 Collection Date: 10/10/2023 3:20:00 PM

Project: San Juan 32 9 41 A Lab ID: 2310677-002 Matrix: AIR Received Date: 10/13/2023 6:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: JJP **EPA METHOD 8015D: GASOLINE RANGE** µg/L Gasoline Range Organics (GRO) 13000 250 50 10/20/2023 12:20:19 PM Surr: BFB 10/20/2023 12:20:19 PM 207 15-412 %Rec 50 **EPA METHOD 8260B: VOLATILES** Analyst: JR 10/19/2023 12:08:42 PM Benzene 17 5.0 ua/L 50 Toluene 73 10/19/2023 12:08:42 PM 5.0 µg/L 50 Ethylbenzene 7.6 5.0 50 10/19/2023 12:08:42 PM µg/L Methyl tert-butyl ether (MTBE) ND 5.0 µg/L 50 10/19/2023 12:08:42 PM 1,2,4-Trimethylbenzene ND 5.0 50 10/19/2023 12:08:42 PM µg/L 1,3,5-Trimethylbenzene ND 10/19/2023 12:08:42 PM 5.0 µg/L 50 10/19/2023 12:08:42 PM 1,2-Dichloroethane (EDC) ND 2.0 50 µg/L 1,2-Dibromoethane (EDB) ND 5.0 µg/L 50 10/19/2023 12:08:42 PM ND 10 Naphthalene µg/L 50 10/19/2023 12:08:42 PM 1-Methylnaphthalene ND 20 µg/L 50 10/19/2023 12:08:42 PM 2-Methylnaphthalene ND 20 µg/L 50 10/19/2023 12:08:42 PM Acetone ND 50 50 10/19/2023 12:08:42 PM µg/L Bromobenzene ND 5.0 µg/L 50 10/19/2023 12:08:42 PM ND µg/L 50 10/19/2023 12:08:42 PM Bromodichloromethane 5.0 Bromoform ND 5.0 50 10/19/2023 12:08:42 PM µg/L ND Bromomethane 10 50 10/19/2023 12:08:42 PM µg/L ND 50 2-Butanone µg/L 50 10/19/2023 12:08:42 PM ND 50 Carbon disulfide µg/L 50 10/19/2023 12:08:42 PM Carbon tetrachloride ND 5.0 µg/L 50 10/19/2023 12:08:42 PM Chlorobenzene ND 50 10/19/2023 12:08:42 PM 5.0 µg/L µg/L Chloroethane ND 10 50 10/19/2023 12:08:42 PM ND Chloroform 5.0 µg/L 50 10/19/2023 12:08:42 PM Chloromethane ND 5.0 50 10/19/2023 12:08:42 PM µg/L 2-Chlorotoluene ND 5.0 µg/L 50 10/19/2023 12:08:42 PM 4-Chlorotoluene ND µg/L 50 50 10/19/2023 12:08:42 PM cis-1,2-DCE ND 5.0 50 10/19/2023 12:08:42 PM µg/L ND 5.0 50 10/19/2023 12:08:42 PM cis-1,3-Dichloropropene µg/L 1,2-Dibromo-3-chloropropane ND 10 10/19/2023 12:08:42 PM µg/L 50 Dibromochloromethane ND 5.0 µg/L 50 10/19/2023 12:08:42 PM Dibromomethane ND 10 µg/L 50 10/19/2023 12:08:42 PM ND 1,2-Dichlorobenzene 5.0 µg/L 50 10/19/2023 12:08:42 PM 1,3-Dichlorobenzene ND 5.0 µg/L 50 10/19/2023 12:08:42 PM 1,4-Dichlorobenzene ND 5.0 µg/L 50 10/19/2023 12:08:42 PM Dichlorodifluoromethane ND 5.0 µg/L 50 10/19/2023 12:08:42 PM 1,1-Dichloroethane ND 5.0 µg/L 50 10/19/2023 12:08:42 PM 1,1-Dichloroethene ND 5.0 50 10/19/2023 12:08:42 PM µg/L

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits P Sample pH Not In Range

P Sample pH Not In Range RL Reporting Limit

Limit

Page 3 of 4

San Juan 32 9 41 A

Project:

Analytical Report Lab Order 2310677

Date Reported: 11/2/2023

Hall	Environmen	tal Ana	lvsis L	aboratory	v. Inc
11411			11 y 010 L	24001 4001	, , , , , , , , , , , , , , , , , , ,

Client Sample ID: Influent 10-10-23 Collection Date: 10/10/2023 3:20:00 PM Received Date: 10/13/2023 6:30:00 AM

Lab ID: 2310677-002	Matrix: AIR	Received Date: 10/13/2023 6:30:00 AM							
Analyses	Result	RL Qua	l Units	DF	Date Analyzed				
EPA METHOD 8260B: VOLATILES					Analyst: JR				
1,2-Dichloropropane	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
1,3-Dichloropropane	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
2,2-Dichloropropane	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
1,1-Dichloropropene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
Hexachlorobutadiene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
2-Hexanone	ND	50	µg/L	50	10/19/2023 12:08:42 PM				
Isopropylbenzene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
4-Isopropyltoluene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
4-Methyl-2-pentanone	ND	50	µg/L	50	10/19/2023 12:08:42 PM				
Methylene chloride	ND	15	µg/L	50	10/19/2023 12:08:42 PM				
n-Butylbenzene	ND	15	µg/L	50	10/19/2023 12:08:42 PM				
n-Propylbenzene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
sec-Butylbenzene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
Styrene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
tert-Butylbenzene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
Tetrachloroethene (PCE)	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
trans-1,2-DCE	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
trans-1,3-Dichloropropene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
1,2,3-Trichlorobenzene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
1,2,4-Trichlorobenzene	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
1,1,1-Trichloroethane	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
1,1,2-Trichloroethane	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
Trichloroethene (TCE)	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
Trichlorofluoromethane	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
1,2,3-Trichloropropane	ND	10	µg/L	50	10/19/2023 12:08:42 PM				
Vinyl chloride	ND	5.0	µg/L	50	10/19/2023 12:08:42 PM				
Xylenes, Total	76	7.5	µg/L	50	10/19/2023 12:08:42 PM				
Surr: Dibromofluoromethane	92.3	70-130	%Rec	50	10/19/2023 12:08:42 PM				
Surr: 1,2-Dichloroethane-d4	99.1	70-130	%Rec	50	10/19/2023 12:08:42 PM				
Surr: Toluene-d8	93.4	70-130	%Rec	50	10/19/2023 12:08:42 PM				
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	50	10/19/2023 12:08:42 PM				

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range RL Reporting Limit

Page 4 of 4

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ANALYTICAL SUMMARY REPORT

November 01, 2023

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

Work Order: B23101313 Quote ID: B15626

Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 2 samples for Hall Environmental on 10/17/2023 for analysis.

Lab ID	Client Sample ID	Collect Date R	eceive Date	Matrix	Test
B23101313-001	2310677-001B, Influent 10-9-23	10/09/23 15:30	10/17/23	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60
B23101313-002	2310677-002B, Influent 10-10-23	10/10/23 15:20	10/17/23	Air	Same As Above

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

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

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

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental **Project:** Not Indicated Lab ID: B23101313-001 Client Sample ID: 2310677-001B, Influent 10-9-23

Report Date: 11/01/23 Collection Date: 10/09/23 15:30 DateReceived: 10/17/23 Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	19.92	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Nitrogen	77.40	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Carbon Dioxide	1.81	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Methane	0.29	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Hexanes plus	0.58	Mol %		0.01		GPA 2261-95	10/19/23 10:27 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 10:27 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 10:27 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 10:27 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 10:27 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 10:27 / jrj
Hexanes plus	0.244	gpm		0.001		GPA 2261-95	10/19/23 10:27 / jrj
GPM Total	0.244	gpm		0.001		GPA 2261-95	10/19/23 10:27 / jrj
GPM Pentanes plus	0.244	gpm		0.001		GPA 2261-95	10/19/23 10:27 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	31			1		GPA 2261-95	10/19/23 10:27 / jrj
Net BTU per cu ft @ std cond. (LHV)	28			1		GPA 2261-95	10/19/23 10:27 / jrj
Pseudo-critical Pressure, psia	551			1		GPA 2261-95	10/19/23 10:27 / jrj
Pseudo-critical Temperature, deg R	248			1		GPA 2261-95	10/19/23 10:27 / jrj
Specific Gravity @ 60/60F	1.02			0.001		D3588-81	10/19/23 10:27 / jrj
Air, %	91.01			0.01		GPA 2261-95	10/19/23 10:27 / jrj

The analysis was not corrected for air.

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

10/19/23 10:27 / jrj



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:Hall EnvironmentalProject:Not IndicatedLab ID:B23101313-002Client Sample ID:2310677-002B, Influent 10-10-23

Report Date: 11/01/23 Collection Date: 10/10/23 15:20 DateReceived: 10/17/23 Matrix: Air

Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	20.56	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Nitrogen	77.89	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Carbon Dioxide	1.03	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Hexanes plus	0.52	Mol %		0.01		GPA 2261-95	10/19/23 11:28 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 11:28 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 11:28 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 11:28 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 11:28 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	10/19/23 11:28 / jrj
Hexanes plus	0.219	gpm		0.001		GPA 2261-95	10/19/23 11:28 / jrj
GPM Total	0.219	gpm		0.001		GPA 2261-95	10/19/23 11:28 / jrj
GPM Pentanes plus	0.219	gpm		0.001		GPA 2261-95	10/19/23 11:28 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	25			1		GPA 2261-95	10/19/23 11:28 / jrj
Net BTU per cu ft @ std cond. (LHV)	23			1		GPA 2261-95	10/19/23 11:28 / jrj
Pseudo-critical Pressure, psia	547			1		GPA 2261-95	10/19/23 11:28 / jrj
Pseudo-critical Temperature, deg R	245			1		GPA 2261-95	10/19/23 11:28 / jrj
Specific Gravity @ 60/60F	1.01			0.001		D3588-81	10/19/23 11:28 / jrj
Air, % - The analysis was not corrected for air.	93.95			0.01		GPA 2261-95	10/19/23 11:28 / jrj

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit 10/19/23 11:28 / jrj



Billings, MT 406.252.6325 • Casper, WY 307.435.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B23101313

		Hall Environmental	Client:
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Report Date: 11/01/23

Analyte		Count	Result	Units	RL	%REC I	.ow Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch	R410813
Lab ID:	B23101079-004ADUP	12 Sa	nple Duplic	ate		F	Run: GCNG	A-B_231019A		10/19	/23 14:38
Oxygen			0.83	Mol %	0.01				1.2	20	
Nitrogen			14.4	Mol %	0.01				0.4	20	
Carbon D	Dioxide		0.03	Mol %	0.01				0.0	20	
Hydroger	n Sulfide		<0.01	Mol %	0.01					20	
Methane			83.6	Mol %	0.01				0.1	20	
Ethane			0.75	Mol %	0.01				0.0	20	
Propane			0.21	Mol %	0.01				0.0	20	
Isobutane	e		0.09	Mol %	0.01				12	20	
n-Butane	l de la construcción de la constru		0.03	Mol %	0.01				0.0	20	
Isopentar	ne		<0.01	Mol %	0.01					20	
n-Pentan	e		<0.01	Mol %	0.01					20	
Hexanes	plus		<0.01	Mol %	0.01					20	
Lab ID:	LCS101923	11 Lat	oratory Co	ntrol Sample		F	Run: GCNG	A-B_231019A		10/19	/23 15:12
Oxygen			0.60	Mol %	0.01	120	70	130			
Nitrogen			6.00	Mol %	0.01	100	70	130			
Carbon D	Dioxide		0.99	Mol %	0.01	100	70	130			
Methane			74.1	Mol %	0.01	99	70	130			
Ethane			5.98	Mol %	0.01	100	70	130			
Propane			5.56	Mol %	0.01	113	70	130			
Isobutane	e		1.98	Mol %	0.01	99	70	130			
n-Butane	I.		1.99	Mol %	0.01	99	70	130			
Isopentar	ne		1.03	Mol %	0.01	103	70	130			
n-Pentan	e		1.02	Mol %	0.01	102	70	130			
Hexanes	plus		0.76	Mol %	0.01	95	70	130			

 Trust our People. Trust our Data. www.energylab.com Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

B23101313

Work Order Receipt Checklist

Hall Environmental

Login completed by:	Yvonna E. Smith		Date	e Received: 10/17/2023
Reviewed by:	gmccartney		Re	eceived by: dnh
Reviewed Date:	10/21/2023		Ca	rrier name: FedEx
Shinning container/cooler in	acod condition?	Ves 🖂		Not Present
Custody seals intact on all s	shipping container(s)/cooler(s)?	Yes 🗸	No 📋	Not Present
Custody seals intact on all s	sample bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🖌	No 🗌	
Chain of custody signed wh	nen relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees wit	th sample labels?	Yes 🗹	No 🗌	
Samples in proper containe	r/bottle?	Yes 🗹	No 🗌	
Sample containers intact?		Yes 🗹	No 🗌	
Sufficient sample volume for	or indicated test?	Yes 🖌	No 🗌	
All samples received within (Exclude analyses that are of such as pH, DO, Res Cl, S	holding time? considered field parameters ulfite, Ferrous Iron, etc.)	Yes 🗸	No 🗌	
Temp Blank received in all	shipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temp	perature:	15.2°C No Ice		
Containers requiring zero he bubble that is <6mm (1/4").	eadspace have no headspace or	Yes	No 🗌	No VOA vials submitted
Water - pH acceptable upor	n receipt?	Yes	No 🗌	Not Applicable 🗹

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None

UBCONTRATOR Energy Labs - Billings COMDATOR Energy Labs - Billings Energy Laboratories PHONE (406) 869-6253 FAX (406) 252-6069 DNESS 1120 South 27th Street ACCOUNT # ACCOUNT # EMAIL EMAIL TYSTATE.ZIP Billings, MT 59107 BOTTLE BOTTLE BOTTLE EMAIL EMAIL TYSTATE.ZIP Billings, MT 59107 BOTTLE BOTTLE BOTTLE EMAIL EMAIL TYPE MATRIX DATE DATE ACOULECTION ANALYTICAL COMMENTS EMAIL SAMPLE CLLENT SAMPLE ID TYPE MATRIX DATE 1 2310677-0018 Influent 10-9-23 TEPLAR Air 0092023 3:30:00 PM 1 Natural Gas Analysis- CO2+O2 SUD [7] [7] [7] 2 2310677-0018 Influent 10-10-23 TEDLAR Air 10/10/2023 3:30:00 PM 1 Natural Gas Analysis- CO2+O2 SUD [7] [7] [7]	ANALYSIS ANALYSIS LABORATORY	CHAIN OF CUS	TODY	RECORD FAGE	. <mark>1</mark> он		lall Environmental Analysis Laboratory 4901 Havkins NE Albuquerque, NM 87109 7EL: 505-545-3975 EAX: 505-545-4107 Website: www.hallenvironmental.com	
IEM SAMPLE CLIENT SAMPLE ID BOTTLE CULLECTION ATRIX LOOD 1 2310677-001B Influent 10-9-23 TYPE MATRIX DATE ZATE ANALYTICAL COMMENTS 2 2310677-002B Influent 10-10-23 TEDLAR Air 10/9/2023 3:20:00 PM 1 Natural Gas Analysis- C02+02 C23/013/13	UB CONTRATOR Energy Labs -Billings COMPANY: DDRESS 1120 South 27th Street ITY, STATE, ZP. Billings, MT 59107	Energy Laborator	es	PHONE: ACCOUNT #	(406) 869-6253	FAX. EMAIL	(406) 252-6069	
1 2310677-001B Influent 10-9-23 TEDLAR Air 10/9/2023 3:30:00 PM 1 Natural Gas Analysis- CO2+O2 C2/10/13/13 2 2310677-002B Influent 10-10-23 TEDLAR Air 10/10/2023 3:20:00 PM 1 Natural Gas Analysis- CO2+O2 C2/10/13/13	IEM SAMPLE CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION	₹ CONTAINERS	NALYTIC	AL COMMENTS	
2 2310677-002B Influent 10-10-23 TEDLAR Air 10/10/2023 3:20:00 PM 1 Natural Gas Analysis- CO2+O2	1 2310677-001B Influent 10-9-23	TEDLAR	Air	10/9/2023 3:30:00 PM	1 Natural Gas Analysis- C	02+02	K23101313	
	2 2310677-002B Influent 10-10-23	TEDLAR	Air	10/10/2023 3:20:00 PM	1 Natural Gas Analysis- C	02+02		

SPECIAL INSTRUCTIONS/ COMA Please include the LAB ID i	IENTS: ind the CLIENT	SAMPLE ID 6	m all final reports. Please e-mail rest	ults to lab@hallenvironment	ıl.com. Please return all coolers and blue ice. Thank you.
Relinquished By.	Date: 10/13/2023	Time: 8:26 AM	Received By:	Date: Time-	REPORT TRANSMITTAL DESIRED:
Relinquished by.	Date:	Time:	Received By:	Date / Time	HARDCOPY (extra cost) FAX EMAIL ONLINE
Relinquished By.	Date:	Time:	Received of	Sitor site	FOR LAB USE ONLY
TAT:	tendard	RUSH	Next BD 2nd BD	3rd BD	Lettip of samptes
					COUNEMAS

Received by OCD: 1/12/2024 11:24:23 AM

Released to Imaging: 4/5/2024 3:22:17 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmen A TEL: 505-345-39 Website: www	tal Analysis Labora 4901 Hawkin Ibuquerque, NM 8 175 FAX: 505-345- hallenvironmental	atory s NE 7109 Sam 4107 .com	nple Log-In Che	eck List
Client Name: HILCORP ENERGY	Work Order Numb	er: 2310677		RcptNo: 1	
Received By: Tracy Casarrubias Completed By: Tracy Casarrubias Reviewed By: SCM $10/13/33$	10/13/2023 6:30:00 10/13/2023 8:24:28	AM AM			
<u>Chain of Custody</u>1. Is Chain of Custody complete?2. How was the sample delivered?		Yes Courier	No 🗹	Not Present 🗌	
Log In 3. Was an attempt made to cool the samples?		Yes	No 🗹		
4. Were all samples received at a temperature o	f ≥0° C to 6.0°C	Yes 🗌 🔤	No 🗌	NA 🔽	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated test(s)?7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹 Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers received broken	?	Yes 🗌	No 🗹	# of preserved	1
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12	unless noted)
12. Are matrices correctly identified on Chain of C	ustody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🔽	No 🗌		<i>Л</i>
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	No 🗌	Checked by:	10.13.23
Special Handling (if applicable)				0	
15. Was client notified of all discrepancies with the	is order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions: Mailing address.ph	Date: Via: one number and Ema	eMail P	Phone 🗌 Fax	[] In Person C 10/13/23	
16. Additional remarks:	The same start and the set				
17. <u>Cooler Information</u>			0		
1 N/A Good Yes	a intact Seal No	Seal Date	Signed By		

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Page 60 of 122	HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	(OS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	 Yo / Mi Yo / Mi Yo / Mi 	20 / Df 10, 10 10, 11) 10, 10 10, 10		15D 1410 1410 1410 1410 140 140 140 140 140	08:H9 2081 Pd 2081 Pd 2081 Pd 2081 Pd 2081 Pd 20181 Pd 20								emarks:		
	Turn-Around Time:	X Standard 🗆 Rush	Project Name:	San Juan 52-9 #41A	Project #:		Project Manager:	Stuart Hydre (80)	Sampler: Downwy Buchs	On Ice:	Cooler Temp(Including cF): N/A (°C)	Container Preservative HEAL No.		7 Tellu 002						Received by: Via: COUK C/ Date Time R	Received by: Via: Date Time	
Received by OCD: 1/12/2024 11:24:23 AM	Chain-of-Custody Record	Client: HILL PAR CINEVEN	Mitch Killing	Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	DINELAC Dother			Date Time Matrix Sample Name	10-4-23 15:70 Ar Enfluent 10-10-23						Date: Time: Relinuished by:	Date: Time: Relinquished by:	

If processary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the *Released to Tmaging:* 4/5/2024 3:22:17 PM

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Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 03, 2023

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: San Juan 32 9 41A

OrderNo.: 2310A09

Dear Stuart Hyde:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 10/20/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2310A09

Date Reported: 11/3/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Influent 10-19-23 Collection Date: 10/10/2023 3:00:00 PM

Project:	San Juan 32 9 41A		Collec	tion Date:	: 10/19/	2023 3:00:00 PM
Lab ID:	2310A09-001	Matrix: AIR	Rece	ived Date:	: 10/20/	2023 7:30:00 AM
Analyses		Result	RL Qu	al Units	DF	Date Analyzed
EPA ME	THOD 8015D: GASOLINE R	ANGE				Analyst: JJP
Gasoline	e Range Organics (GRO)	5400	250	µg/L	50	10/31/2023 11:14:57 AM
Surr:	BFB	195	15-412	%Rec	50	10/31/2023 11:14:57 AN
EPA ME	THOD 8260B: VOLATILES					Analyst: CCM
Benzene	9	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Toluene		39	5.0	µg/L	50	10/30/2023 3:05:00 PM
Ethylber	izene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Methyl te	ert-butyl ether (MTBE)	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,2,4-Tr	imethylbenzene	5.8	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,3,5-Tr	imethylbenzene	6.4	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,2-Dich	loroethane (EDC)	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,2-Dibr	omoethane (EDB)	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Naphtha	llene	ND	10	µg/L	50	10/30/2023 3:05:00 PM
1-Methy	Inaphthalene	ND	20	µg/L	50	10/30/2023 3:05:00 PM
2-Methy	Inaphthalene	ND	20	µg/L	50	10/30/2023 3:05:00 PM
Acetone	-	ND	50	µg/L	50	10/30/2023 3:05:00 PM
Bromob	enzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Bromodi	chloromethane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Bromofo	orm	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Bromom	lethane	ND	10	µg/L	50	10/30/2023 3:05:00 PM
2-Butan	one	ND	50	µg/L	50	10/30/2023 3:05:00 PM
Carbon	disulfide	ND	50	µg/L	50	10/30/2023 3:05:00 PM
Carbon	tetrachloride	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Chlorob	enzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Chloroet	hane	ND	10	µg/L	50	10/30/2023 3:05:00 PM
Chlorofo	orm	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Chlorom	ethane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
2-Chloro	otoluene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
4-Chloro	otoluene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
cis-1,2-[DCE	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
cis-1,3-[Dichloropropene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,2-Dibr	omo-3-chloropropane	ND	10	µg/L	50	10/30/2023 3:05:00 PM
Dibromo	ochloromethane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Dibromo	omethane	ND	10	µg/L	50	10/30/2023 3:05:00 PM
1,2-Dich	lorobenzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,3-Dich	lorobenzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,4-Dich	lorobenzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Dichloro	difluoromethane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM

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

ND

Qualifiers:

1,1-Dichloroethane

1,1-Dichloroethene

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

50

50

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

µg/L

µg/L

Р Sample pH Not In Range

RL Reporting Limit

5.0

5.0

Page 1 of 2

10/30/2023 3:05:00 PM

10/30/2023 3:05:00 PM

San Juan 32 9 41A

Project:

Analytical Report Lab Order 2310A09

Date Reported: 11/3/2023

	Hall	Environmental	Analysis	Laboratory,	Inc
--	------	----------------------	----------	-------------	-----

Client Sample ID: Influent 10-19-23 Collection Date: 10/19/2023 3:00:00 PM Received Date: 10/20/2023 7:30:00 AM

Lab ID: 2310A09-001	Matrix: AIR	Receive	ed Date:	: 10/20/	2023 7:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
1,2-Dichloropropane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,3-Dichloropropane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
2,2-Dichloropropane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,1-Dichloropropene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Hexachlorobutadiene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
2-Hexanone	ND	50	µg/L	50	10/30/2023 3:05:00 PM
Isopropylbenzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
4-Isopropyltoluene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
4-Methyl-2-pentanone	ND	50	µg/L	50	10/30/2023 3:05:00 PM
Methylene chloride	ND	15	µg/L	50	10/30/2023 3:05:00 PM
n-Butylbenzene	ND	15	µg/L	50	10/30/2023 3:05:00 PM
n-Propylbenzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
sec-Butylbenzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Styrene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
tert-Butylbenzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Tetrachloroethene (PCE)	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
trans-1,2-DCE	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
trans-1,3-Dichloropropene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,1,1-Trichloroethane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Trichloroethene (TCE)	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Trichlorofluoromethane	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
1,2,3-Trichloropropane	ND	10	µg/L	50	10/30/2023 3:05:00 PM
Vinyl chloride	ND	5.0	µg/L	50	10/30/2023 3:05:00 PM
Xylenes, Total	110	7.5	µg/L	50	10/30/2023 3:05:00 PM
Surr: Dibromofluoromethane	89.3	70-130	%Rec	50	10/30/2023 3:05:00 PM
Surr: 1,2-Dichloroethane-d4	93.9	70-130	%Rec	50	10/30/2023 3:05:00 PM
Surr: Toluene-d8	116	70-130	%Rec	50	10/30/2023 3:05:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	50	10/30/2023 3:05:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits

Р Sample pH Not In Range Reporting Limit

RL

Page 2 of 2

*



ANALYTICAL SUMMARY REPORT

November 02, 2023

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372 Work Order: B23101904 Quote ID: B15626 Project Name: **Tedlar Gas Analysis** Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 10/25/2023 for analysis. Test **Client Sample ID** Lab ID Collect Date Receive Date Matrix B23101904-001 2310A09-001B, Influent 10/19/23 15:00 10/25/23 Air Air Correction Calculations 10-19-23 Appearance and Comments **Calculated Properties** GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:	Hall Environmental
Project:	Tedlar Gas Analysis
Lab ID:	B23101904-001
Client Sample ID:	2310A09-001B, Influent 10-19-23

Report Date: 11/02/23 Collection Date: 10/19/23 15:00 DateReceived: 10/25/23 Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.40	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Nitrogen	77.95	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Carbon Dioxide	0.42	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Hexanes plus	0.23	Mol %		0.01		GPA 2261-95	10/26/23 13:12 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	10/26/23 13:12 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	10/26/23 13:12 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	10/26/23 13:12 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	10/26/23 13:12 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	10/26/23 13:12 / jrj
Hexanes plus	0.097	gpm		0.001		GPA 2261-95	10/26/23 13:12 / jrj
GPM Total	0.097	gpm		0.001		GPA 2261-95	10/26/23 13:12 / jrj
GPM Pentanes plus	0.097	gpm		0.001		GPA 2261-95	10/26/23 13:12 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	11			1		GPA 2261-95	10/26/23 13:12 / jrj
Net BTU per cu ft @ std cond. (LHV)	10			1		GPA 2261-95	10/26/23 13:12 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	10/26/23 13:12 / jrj
Pseudo-critical Temperature, deg R	241			1		GPA 2261-95	10/26/23 13:12 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	10/26/23 13:12 / jrj
Air, %	97.77			0.01		GPA 2261-95	10/26/23 13:12 / jrj
The analysis was not corrected for air							

- The analysis was not corrected for air.

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit 10/26/23 13:12 / jrj



Billings, MT 406.252.6325 • Casper, WY 307.235.0515 f 122 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B23101904

Report Date: 11/02/23

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R411208
Lab ID:	B23101903-001ADUP	12 Sar	nple Duplic	ate		I	Run: GCNG	A-B_231026A		10/26	/23 12:42
Oxygen			18.1	Mol %	0.01				0.2	20	
Nitrogen			79.3	Mol %	0.01				0.1	20	
Carbon Di	ioxide		0.88	Mol %	0.01				1.1	20	
Hydrogen	Sulfide		<0.01	Mol %	0.01					20	
Methane			0.02	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutane			0.03	Mol %	0.01				0.0	20	
n-Butane			0.08	Mol %	0.01				0.0	20	
Isopentan	e		0.11	Mol %	0.01				0.0	20	
n-Pentane	9		0.10	Mol %	0.01				9.5	20	
Hexanes p	olus		1.44	Mol %	0.01				5.7	20	
Lab ID:	LCS102623	11 Lab	oratory Co	ntrol Sample		I	Run: GCNG	A-B_231026A		10/26	/23 14:30
Oxygen			0.59	Mol %	0.01	118	70	130			
Nitrogen			5.79	Mol %	0.01	96	70	130			
Carbon Di	ioxide		1.01	Mol %	0.01	102	70	130			
Methane			74.8	Mol %	0.01	100	70	130			
Ethane			6.05	Mol %	0.01	101	70	130			
Propane			4.88	Mol %	0.01	99	70	130			
Isobutane			2.01	Mol %	0.01	100	70	130			
n-Butane			2.01	Mol %	0.01	100	70	130			
Isopentan	e		1.01	Mol %	0.01	101	70	130			
n-Pentane	9		1.01	Mol %	0.01	101	70	130			
Hexanes p	olus		0.83	Mol %	0.01	104	70	130			



Trust our People. Trust our Data. www.energylab.com Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

B23101904

Work Order Receipt Checklist

Hall Environmental

Login completed by:	Danielle N. Harris		Date	e Received: 10/25/2023				
Reviewed by:	lleprowse		Received by: dnh					
Reviewed Date:	10/27/2023		Carrier 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 whe	en relinquished and received?	Yes 🗹	No 🗌					
Chain of custody agrees with	h sample labels?	Yes 🗹	No 🗌					
Samples in proper container	r/bottle?	Yes 🗹	No 🗌					
Sample containers intact?		Yes 🗹	No 🗌					
Sufficient sample volume for	r indicated test?	Yes 🗹	No 🗌					
All samples received within I (Exclude analyses that are c such as pH, DO, Res CI, Su	holding time? considered field parameters ulfite, Ferrous Iron, etc.)	Yes 🗹	No 🗌					
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable				
Container/Temp Blank temp	erature:	8.8°C No Ice						
Containers requiring zero he bubble that is <6mm (1/4").	eadspace have no headspace or	Yes	No 🗌	No VOA vials submitted				
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable				

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None

Released to Imaging: 4/5/2024 3:22:17 PM

	MENTS:	und the CLIENT SAMPLE ID on all final reports. Please c-mail results to lab@hallenviroumental.com. Please return all coolers and blue ice. Thank you.	Date: Time: Time: Time: Received By: Date: Time: REPORT TRANSMITTAL DESIRED: Description Descrinteree Description <thdescription<< th=""><th>Date: Time: Received By: Date: Time: HARDCOPY (extra out) FAX EMAIL ONLINE</th><th>Date: Time: Recent By UN Profession Type Contraction Type Son AB USE ONLY</th><th>Standard K RUSH Next BD Area BD Area Stat B Area Stat Ba Area Stat Ba</th><th>Comments</th><th></th></thdescription<<>	Date: Time: Received By: Date: Time: HARDCOPY (extra out) FAX EMAIL ONLINE	Date: Time: Recent By UN Profession Type Contraction Type Son AB USE ONLY	Standard K RUSH Next BD Area BD Area Stat B Area Stat Ba Area Stat Ba	Comments	
	VIS:	the CLJEN F SAMP	Date: Time: 10/20/2023	Date: Time	Date: Time	dard 🖌		
	SPECIAL INSTRUCTIONS / COMME	riease include the LAIS ID and	Relinquished By: CMC	Relinquished By:	Relinquished By:	TAT: Star		

Received by OCD: 1/12/2024 11:24:23 AM

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Al TEL: 505-345-397 Website: www.h	ıl Analysis Labora 4901 Hawkin buquerque, NM 8 5 FAX: 505-345- nallenvironmental	atory s NE 7109 Sam 4107 Leom	ple Log-In Chec	k List
Client Name: HILCORP ENERGY	Work Order Numbe	er: 2310A09		RcptNo: 1	
Received By: Cheyenne Cason	10/20/2023 7:30:00 A	M	Chul		
Completed By: Cheyenne Cason	10/20/2023 7:57:23 A	M	And		
Reviewed By: TMC	10/20/23				
Chain of Custody				_	
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>	106. 100 VA		
Log In 3. Was an attempt made to cool the samples	?	Yes 🗹 🎾		NA 🖉	
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🗌	No 🗌	NA 🔽	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prope	rly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/	4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received brok	en?	Yes	No 🗹 🛛	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH:	nless noted)
12 Are matrices correctly identified on Chain o	f Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	L GCAD	10/00/2
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No	Checked by:	10/30/0
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:	[
By Whom:	Via:	eMail 🗌	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
17. <u>Cooler Information</u> Cooler No Temp °C Condition 1 NA Good Y	Seal Intact Seal No es NA	Seal Date	Signed By		

Page 69 of 122

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eceived by OCD: 1/12/2024 11:24:23 AM		Page 70 of 122
Chain-of-Custody Record	Turn-Around Time:	
ilent: Hill corp Evergy	🗡 Standard 🗆 Rush	ANALYSIS LABORATORY
Hur. Mitch Killouch	Project Name:	www.hallenvironmental.com
Aailing Address:	FILE 1-75 mon (mas	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
smail or Fax#:	Project Manager:	(OS ()10=0 (
DA/QC Package:	Stuent tryde	s (802 PCB's SSIMS PCB's
	Annald Res	25 25 25 25 25 25 25 25 25 25 25 25 25 2
Accreditation:	On Ice: X Yes D No	1 T/ 1 (05 (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
	# of Coolers: {	18E 0(Gf 00 (11-V(0) 11-V(0) 11-V(0) 10-V(11-V(0) 10-V(11-V(0) 10-V(11-V)))))))))))))))))))))))))))))))))))
	Cooler Temp(Including CF): NA (°C)	MT5C estic at 15C at 15
Cample Name	Container Preservative HEAL No.	87EX / ТКН:80 8081 Ра ВОВ1 Ра В260 (у 8270 (5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
10-14 15:00 Air Twelling WH223	2 Tedla - MA	
Date: Time: Relinquished br	Received by: Via: Date Time	Remarks:
Date: Time: Relinquished by:	Received by: Via: Date Time	
2 (MIL- 161 12/6/2	NY4 (Cam 10/ 24 23 CJ 30	the stands on the stand data will be closely activated on the analytical famort
eleased to Imaging: 4/5/2024 3:22:17 PM	bcontracted to other accredited laboratones. I his serves as more or un	



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 15, 2023 Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733

FAX:

RE: San Juan 32 9 41 A

OrderNo.: 2311002

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 11/1/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

2311002-001

San Juan 32 9 41 A

Project:

Lab ID:

Analytical Report Lab Order 2311002

Date Reported: 11/15/2023

Hall	Environmenta	l Analysis	Laboratory.	Inc
11411		11111111111111111111111111111111111111	Luboratory,	IIIC

Matrix: AIR

Client Sample ID: San Juan 32-9#41A Influent Collection Date: 10/31/2023 1:00:00 PM Received Date: 11/1/2023 6:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	2100	250	µg/L	50	11/8/2023 3:39:00 PM
Surr: BFB	141	15-412	%Rec	50	11/8/2023 3:39:00 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Toluene	14	1.0	µg/L	10	11/8/2023 3:35:09 PM
Ethylbenzene	2.0	1.0	µg/L	10	11/8/2023 3:35:09 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1.2.4-Trimethylbenzene	4.6	1.0	µg/L	10	11/8/2023 3:35:09 PM
1.3.5-Trimethylbenzene	5.1	1.0	µg/L	10	11/8/2023 3:35:09 PM
1.2-Dichloroethane (EDC)	ND	1.0	ua/L	10	11/8/2023 3:35:09 PM
1.2-Dibromoethane (EDB)	ND	1.0	ua/L	10	11/8/2023 3:35:09 PM
Naphthalene	ND	2.0	ua/L	10	11/8/2023 3:35:09 PM
1-Methylnaphthalene	ND	4.0	ua/L	10	11/8/2023 3:35:09 PM
2-Methylnaphthalene	ND	4.0	ua/L	10	11/8/2023 3:35:09 PM
Acetone	ND	10	ua/L	10	11/8/2023 3:35:09 PM
Bromobenzene	ND	1.0	ua/L	10	11/8/2023 3:35:09 PM
Bromodichloromethane	ND	1.0	ua/L	10	11/8/2023 3:35:09 PM
Bromoform	ND	1.0	ua/L	10	11/8/2023 3:35:09 PM
Bromomethane	ND	2.0	ua/L	10	11/8/2023 3:35:09 PM
2-Butanone	ND	10	ua/L	10	11/8/2023 3:35:09 PM
Carbon disulfide	ND	10	ua/L	10	11/8/2023 3:35:09 PM
Carbon tetrachloride	ND	1.0	ua/L	10	11/8/2023 3:35:09 PM
Chlorobenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Chloroethane	ND	2.0	ua/L	10	11/8/2023 3:35:09 PM
Chloroform	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Chloromethane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
2-Chlorotoluene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
4-Chlorotoluene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
cis-1,2-DCE	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
cis-1,3-Dichloropropene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1.2-Dibromo-3-chloropropane	ND	2.0	µg/L	10	11/8/2023 3:35:09 PM
Dibromochloromethane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Dibromomethane	ND	2.0	µg/L	10	11/8/2023 3:35:09 PM
1.2-Dichlorobenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,3-Dichlorobenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,4-Dichlorobenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Dichlorodifluoromethane	ND	1.0	μg/L	10	11/8/2023 3:35:09 PM
1,1-Dichloroethane	ND	1.0	μg/L	10	11/8/2023 3:35:09 PM
1,1-Dichloroethene	ND	1.0	µg/L	10	11/8/2023 3:35:09 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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits Р

Sample pH Not In Range Reporting Limit

RL

Page 1 of 2

*
CLIENT: HILCORP ENERGY

2311002-001

San Juan 32 9 41 A

Project:

Lab ID:

Analytical Report Lab Order 2311002

Date Reported: 11/15/2023

|--|

Client Sample ID: San Juan 32-9#41A Influent Collection Date: 10/31/2023 1:00:00 PM Received Date: 11/1/2023 6:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,2-Dichloropropane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,3-Dichloropropane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
2,2-Dichloropropane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,1-Dichloropropene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Hexachlorobutadiene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
2-Hexanone	ND	10	µg/L	10	11/8/2023 3:35:09 PM
Isopropylbenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
4-Isopropyltoluene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
4-Methyl-2-pentanone	ND	10	µg/L	10	11/8/2023 3:35:09 PM
Methylene chloride	ND	3.0	µg/L	10	11/8/2023 3:35:09 PM
n-Butylbenzene	ND	3.0	µg/L	10	11/8/2023 3:35:09 PM
n-Propylbenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
sec-Butylbenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Styrene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
tert-Butylbenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Tetrachloroethene (PCE)	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
trans-1,2-DCE	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
trans-1,3-Dichloropropene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,2,4-Trichlorobenzene	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,1,1-Trichloroethane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,1,2-Trichloroethane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Trichloroethene (TCE)	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Trichlorofluoromethane	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
1,2,3-Trichloropropane	ND	2.0	µg/L	10	11/8/2023 3:35:09 PM
Vinyl chloride	ND	1.0	µg/L	10	11/8/2023 3:35:09 PM
Xylenes, Total	73	1.5	µg/L	10	11/8/2023 3:35:09 PM
Surr: Dibromofluoromethane	77.2	70-130	%Rec	10	11/8/2023 3:35:09 PM
Surr: 1,2-Dichloroethane-d4	92.6	70-130	%Rec	10	11/8/2023 3:35:09 PM
Surr: Toluene-d8	116	70-130	%Rec	10	11/8/2023 3:35:09 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	10	11/8/2023 3:35:09 PM

Matrix: AIR

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits

Р Sample pH Not In Range Reporting Limit

RL

Page 2 of 2

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ANALYTICAL SUMMARY REPORT

November 06, 2023

Hall Environmen	ntal				
4901 Hawkins S	t NE Ste D				
Albuquerque, N	W 87109-4372				
Work Order:	B23110154 0	Quote ID: B15626	i		
Project Name:	Not Indicated				
Energy Laborato	ories Inc Billings MT receiv	ed the following 1	sample for Hall	Environmen	tal on 11/2/2023 for analysis.
Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B23110154-001	2311002-001B, San Juan 32-9 #41A Influen	10/31/23 13:00 It	11/02/23	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:Hall EnvironmentalProject:Not IndicatedLab ID:B23110154-001Client Sample ID:2311002-001B, San Juan 32-9 #41A Influent

Report Date: 11/06/23 Collection Date: 10/31/23 13:00 DateReceived: 11/02/23 Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.49	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Nitrogen	78.09	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Carbon Dioxide	0.35	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Hexanes plus	0.07	Mol %		0.01		GPA 2261-95	11/03/23 09:46 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	11/03/23 09:46 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	11/03/23 09:46 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	11/03/23 09:46 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	11/03/23 09:46 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	11/03/23 09:46 / jrj
Hexanes plus	0.029	gpm		0.001		GPA 2261-95	11/03/23 09:46 / jrj
GPM Total	0.029	gpm		0.001		GPA 2261-95	11/03/23 09:46 / jrj
GPM Pentanes plus	0.029	gpm		0.001		GPA 2261-95	11/03/23 09:46 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	3			1		GPA 2261-95	11/03/23 09:46 / jrj
Net BTU per cu ft @ std cond. (LHV)	3			1		GPA 2261-95	11/03/23 09:46 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	11/03/23 09:46 / jrj
Pseudo-critical Temperature, deg R	240			1		GPA 2261-95	11/03/23 09:46 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	11/03/23 09:46 / jrj
Air, %	98.21			0.01		GPA 2261-95	11/03/23 09:46 / jrj

- The analysis was not corrected for air.

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit 11/03/23 09:46 / jrj



Billings, MT 406.252.6325 • Casper, WY 307.235.0515 f 122 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client [.]	Hall Environmental	Wo
Chefit.		VVC

Client:	Hall Environmental				Work Order:	B2311	0154	Repo	rt Date:	: 11/06/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch	R411666
Lab ID:	B23110154-001ADUP	12 Sa	mple Duplic	ate			Run: GCNC	GA-B_231103A		11/03	/23 10:27
Oxygen			21.5	Mol %	0.01				0.0	20	
Nitrogen			78.1	Mol %	0.01				0	20	
Carbon I	Dioxide		0.35	Mol %	0.01				0.0	20	
Hydroge	n Sulfide		<0.01	Mol %	0.01					20	
Methane	9		<0.01	Mol %	0.01					20	
Ethane			<0.01	Mol %	0.01					20	
Propane			<0.01	Mol %	0.01					20	
Isobutan	e		<0.01	Mol %	0.01					20	
n-Butane	e		<0.01	Mol %	0.01					20	
Isopenta	ine		<0.01	Mol %	0.01					20	
n-Pentar	ne		<0.01	Mol %	0.01					20	
Hexanes	s plus		0.08	Mol %	0.01				13	20	
Lab ID:	LCS110323	11 Lat	poratory Co	ntrol Sample	1		Run: GCNG	A-B_231103A		11/03	/23 12:38
Oxygen			0.61	Mol %	0.01	122	70	130			
Nitrogen			6.07	Mol %	0.01	101	70	130			
Carbon I	Dioxide		0.99	Mol %	0.01	100	70	130			
Methane	9		74.4	Mol %	0.01	99	70	130			
Ethane			6.01	Mol %	0.01	100	70	130			
Propane			5.12	Mol %	0.01	104	70	130			
Isobutan	e		1.99	Mol %	0.01	99	70	130			
n-Butane	e		1.99	Mol %	0.01	99	70	130			
Isopenta	ine		1.04	Mol %	0.01	104	70	130			

0.01

0.01

1.02

0.79

Mol %

Mol %

102

99

70

70

130

130

n-Pentane

Hexanes plus

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B23110154

Work Order Receipt Checklist

Hall Environmental

Login completed by:	Danielle N. Harris		Date	Received: 11/2/2023
Reviewed by:	gmccartney		Re	ceived by: lel
Reviewed Date:	11/3/2023		Car	rier name: FedEx
Shipping container/cooler in	good condition?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all sh	hipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🗌	

Custody seals intact on all shipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present	
Custody seals intact on all sample bottles?	Yes	No 🗌	Not Present 🗹	
Chain of custody present?	Yes 🗹	No 🗌		
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌		
Samples in proper container/bottle?	Yes 🗹	No 🗌		
Sample containers intact?	Yes 🗹	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌		
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res CI, Sulfite, Ferrous Iron, etc.)	Yes 🗹	No 🗌		
Temp Blank received in all shipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable	
Container/Temp Blank temperature:	11.0°C No Ice			
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes	No 🗌	No VOA vials submitted	
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable	

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None

HALL ENVIRONMEN ANALYSIS LABORATORY	ITAL		CHAIN OF	CUSTODY	(RECORD ^{PAG}	E 0F	Hall Environn Website:	mental Analysis Laboratory 1901 Hawkins NE Albuquerque. NM 87109 TEL: 505-545-3975 FAX: 505-545-4107 ww.hallenvironmental.com	
SUB CONTRATOR Energy La ADDRESS 1120 South CITY, STATE, ZIP BIILINGS, M	ths -Billings h 27th Stree 1T 59107	COMPANY	Energy Labo	ratories	PHONE ACCOUNT #	(406) 869-6253	FAX. (406) EMAIL	252-6069	
ITEM SAMPLE	CLIENT SAM	ILE ID	BO	ITLE MATRI	COLLECTION	* CONTAINER	LYTICAL CO	MMENTS	1
1 2311002-001B San.	Juan 32-9#41	A Influent	TEDL	ar Air	10/31/2023 1:00:00 PM	1 **5 DAY TAT** Natural Gas	Analysis. CO2+02		
						5 20			ē
SPECIAL INSTRUCTIONS / COMM	INTS:								
Please include the LAB ID a	ind the CLIENT	r sample id	on all final reports. P	lease e-mail resul	ts to lab@hallenvironme	intal.com. Please return all coolers.	and blue ice. Thank you	u,	
Relinquistred By	Date 11/4/202	Time 7:12 AN	Received By.		Date: Time:	RE	PORT TRANSMITTAL DI	JESIRED:	
Relinquished By:	Date.	Time.	Received By.		Date: Time:	HARDCOPY (extra cost	ECDE L ARLESE ONLY	EMAIL ONLINE	T
Relinquished By.	Date:	Time.	Received By Land	Eland	Pillolas Brios	Temp of samples	C Attemp	pt to Cool ?	

Received by OCD: 1/12/2024 11:24:23 AM

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Ų Temp of samples Comments SOLLO SEIRIN THELE 3rd BD 2nd BD inor Next BD HSIN Standard TAT: H

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albı TEL: 505-345-3975 Website: www.ha	Analysis Laborata 4901 Hawkins Y querque. NM 871 FAX: 505-345-41 llenvironmental.co	NE 09 Sar 07	ple Log-In Che	ck List
Client Name: HILCORP ENERGY	Work Order Number:	2311002		RcptNo: 1	
Received By: Tracy Casarrubias 11	1/1/2023 6:15:00 AM				
Completed By: Tracy Casarrubias 11 Reviewed By: //-/-23	I/1/2023 7:06:09 AM				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples?		Yes 🗌	No 🗹	NA 🗌	
4. Were all samples received at a temperature of >	>0° C to 6.0°C	Yes 🗌 🗄	No 🗌	NA 🔽	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly pr	eserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for	AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers received broken?		Yes 🗌	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH:	unless noted)
2 Are matrices correctly identified on Chain of Cus	tody?	Yes 🔽	No 🗌	Adjusted?	f 1
3. Is it clear what analyses were requested?		Yes 🗹	No 🗌	Grm	nlal
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this	order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:] eMail 🗌 Ph	one 🗌 Fax	In Person	
Regarding:					
Client Instructions: Mailing address.phor	e number, and Email	/Fax are missing	on COC- TA	//C 11/1/23	
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp ^o C Condition Seal I 1 N/A Good Yes	ntact Seal No S	Seal Date S	Signed By		
i inter outra tes					

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sceived by OCD: 1/12/2024 11:24:23 AM		Page 80 of 122
Chain-of-Custody Record	Turn-Around Time:	
1. 11 Carp atta Writch Killogh	Project Name:	www.hallenvironmental.com
Mailing Address:	Sar Juan 32-4 #41 H	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#:	Project Manager: Showt Hyde	20 ⁵ 20 ⁵ 20 ⁵ 20 ⁵ 20 ⁵ 20 ⁷
QA/QC Package:	shyde a evadure com	3's (80 ² PO4, PO4, [{ 5] [1 5] [2]
Accreditation:	Sampler:	TMI 1002 1
	Un Ice: LI Yes E NO # of Coolere: 1	
Date Trime Matrix Sample Name	Container Preservative HEAL No. Type and # Type 2311002	BTEX / N BTEX / N BUB: Notal BOB: Notal BOB: Notal BS: Notal BS: Notal BS: Notal Coj Coj BS: Notal Coj Coj BS: Notal Coj Coj BS: Notal Coj BS: Notal Coj BS: Notal Coj BS: Notal Coj BS: Notal Coj BS: Notal SS: Notal S
10/1/2/12/12/12/12/12/12/12/12/12/12/12/12	Unit 2xtallo - 001	
Date: Time: Relinquished by:	Received by: Via: Date Time	Remarks: ([: Zunyes () On salum, run
Date: Time: Relinguished by:	Received by: Via: Counce Date Time	
If necessary, samples submitted to Hall Environmental may be su	ubcontracted to ether accredited laboratories. This serves as notice of th	his possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 21, 2023 Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733

FAX:

RE: San Juan 32 9 41 A

OrderNo.: 2311498

Dear Stuart Hyde:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 11/9/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: HILCORP ENERGY

2311498-001

San Juan 32 9 41 A

Project:

Lab ID:

Analytical Report
Lab Order 2311498

Date Reported: 11/21/2023

Client Sample ID: Influent 11-18-23 Collection Date: 11/8/2023 12:10:00 PM Received Date: 11/9/2023 7:10:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
Benzene	ND	0.50	µg/L	10	11/15/2023 4:35:00 PM
Toluene	12	1.0	µg/L	10	11/15/2023 4:35:00 PM
Ethylbenzene	2.0	1.0	µg/L	10	11/15/2023 4:35:00 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,2,4-Trimethylbenzene	9.1	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,3,5-Trimethylbenzene	9.6	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Naphthalene	ND	2.0	µg/L	10	11/15/2023 4:35:00 PM
1-Methylnaphthalene	ND	4.0	µg/L	10	11/15/2023 4:35:00 PM
2-Methylnaphthalene	ND	4.0	µg/L	10	11/15/2023 4:35:00 PM
Acetone	ND	10	µg/L	10	11/15/2023 4:35:00 PM
Bromobenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Bromodichloromethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Bromoform	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Bromomethane	ND	2.0	µg/L	10	11/15/2023 4:35:00 PM
2-Butanone	ND	10	µg/L	10	11/15/2023 4:35:00 PM
Carbon disulfide	ND	10	µg/L	10	11/15/2023 4:35:00 PM
Carbon tetrachloride	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Chlorobenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Chloroethane	ND	2.0	µg/L	10	11/15/2023 4:35:00 PM
Chloroform	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Chloromethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
2-Chlorotoluene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
4-Chlorotoluene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
cis-1,2-DCE	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
cis-1,3-Dichloropropene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	10	11/15/2023 4:35:00 PM
Dibromochloromethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Dibromomethane	ND	2.0	µg/L	10	11/15/2023 4:35:00 PM
1,2-Dichlorobenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,3-Dichlorobenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,4-Dichlorobenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Dichlorodifluoromethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,1-Dichloroethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,1-Dichloroethene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,2-Dichloropropane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,3-Dichloropropane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
2,2-Dichloropropane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM

Matrix: AIR

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

*

CLIENT: HILCORP ENERGY

2311498-001

San Juan 32 9 41 A

Project:

Lab ID:

Analytical Report
Lab Order 2311498

Date Reported: 11/21/2023

Matrix: AIR

Client Sample ID: Influent 11-18-23 Collection Date: 11/8/2023 12:10:00 PM Received Date: 11/9/2023 7:10:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
1,1-Dichloropropene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Hexachlorobutadiene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
2-Hexanone	ND	10	µg/L	10	11/15/2023 4:35:00 PM
Isopropylbenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
4-Isopropyltoluene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10	11/15/2023 4:35:00 PM
Methylene chloride	ND	3.0	µg/L	10	11/15/2023 4:35:00 PM
n-Butylbenzene	ND	3.0	µg/L	10	11/15/2023 4:35:00 PM
n-Propylbenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
sec-Butylbenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Styrene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
tert-Butylbenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Tetrachloroethene (PCE)	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
trans-1,2-DCE	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
trans-1,3-Dichloropropene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,2,4-Trichlorobenzene	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,1,1-Trichloroethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,1,2-Trichloroethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Trichloroethene (TCE)	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Trichlorofluoromethane	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
1,2,3-Trichloropropane	ND	2.0	µg/L	10	11/15/2023 4:35:00 PM
Vinyl chloride	ND	1.0	µg/L	10	11/15/2023 4:35:00 PM
Xylenes, Total	92	1.5	µg/L	10	11/15/2023 4:35:00 PM
Surr: Dibromofluoromethane	90.7	70-130	%Rec	10	11/15/2023 4:35:00 PM
Surr: 1,2-Dichloroethane-d4	87.9	70-130	%Rec	10	11/15/2023 4:35:00 PM
Surr: Toluene-d8	126	70-130	%Rec	10	11/15/2023 4:35:00 PM
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	10	11/15/2023 4:35:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	3400	50	µg/L	10	11/15/2023 4:35:00 PM
Surr: BFB	113	70-130	%Rec	10	11/15/2023 4:35:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

*

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ANALYTICAL SUMMARY REPORT

November 17, 2023

Hall Environmen	ntal				
4901 Hawkins S	t NE Ste D				
Albuquerque, NI	W 87109-4372				
Work Order:	B23110913	Quote ID: B15626	6		
Project Name:	Not Indicated				
Energy Laborato	ories Inc Billings MT receiv	ed the following 1	sample for Hall	Environmen	tal on 11/13/2023 for analysis.
Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B23110913-001	2311498-001B, Influent 11-18-23	11/08/23 12:10	0 11/13/23	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:Hall EnvironmentalProject:Not IndicatedLab ID:B23110913-001Client Sample ID:2311498-001B, Influent 11-18-23

Report Date: 11/17/23 Collection Date: 11/08/23 12:10 DateReceived: 11/13/23 Matrix: Air

	MCL/						
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.56	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Nitrogen	78.09	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Carbon Dioxide	0.28	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Hexanes plus	0.07	Mol %		0.01		GPA 2261-95	11/14/23 13:32 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	11/14/23 13:32 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	11/14/23 13:32 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	11/14/23 13:32 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	11/14/23 13:32 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	11/14/23 13:32 / jrj
Hexanes plus	0.029	gpm		0.001		GPA 2261-95	11/14/23 13:32 / jrj
GPM Total	0.029	gpm		0.001		GPA 2261-95	11/14/23 13:32 / jrj
GPM Pentanes plus	0.029	gpm		0.001		GPA 2261-95	11/14/23 13:32 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	3			1		GPA 2261-95	11/14/23 13:32 / jrj
Net BTU per cu ft @ std cond. (LHV)	3			1		GPA 2261-95	11/14/23 13:32 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	11/14/23 13:32 / jrj
Pseudo-critical Temperature, deg R	240			1		GPA 2261-95	11/14/23 13:32 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	11/14/23 13:32 / jrj
Air, %	98.50			0.01		GPA 2261-95	11/14/23 13:32 / jrj
- The analysis was not corrected for air							

- The analysis was not corrected for air.

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit 11/14/23 13:32 / jrj



11:24:23 AM Trust our People. Trust our Data. www.energylab.com

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 f 122 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	Hall Environmental	

Client: Hall Environmental					Work Order:	B2311	0913	Report Date: 11/17/23				
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method:	GPA 2261-95									Batch	: R412334	
Lab ID:	B23110913-001ADUP	12 Sam	ple Duplic	ate			Run: GCNG	A-B_231114A		11/14	/23 13:58	
Oxygen			21.6	Mol %	0.01				0	20		
Nitrogen			78.1	Mol %	0.01				0	20		
Carbon D	Dioxide		0.28	Mol %	0.01				0.0	20		
Hydroger	n 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	e		<0.01	Mol %	0.01					20		
n-Butane			<0.01	Mol %	0.01					20		
Isopentar	ne		<0.01	Mol %	0.01					20		
n-Pentan	e		<0.01	Mol %	0.01					20		
Hexanes	plus		0.09	Mol %	0.01				25	20	R	
Lab ID:	LCS111423	11 Labo	oratory Co	ntrol Sample	•		Run: GCNG	A-B_231114A		11/14	/23 15:05	
Oxygen			0.63	Mol %	0.01	126	70	130				
Nitrogen			6.28	Mol %	0.01	105	70	130				
Carbon D	Dioxide		1.03	Mol %	0.01	104	70	130				
Methane			74.3	Mol %	0.01	99	70	130				
Ethane			6.06	Mol %	0.01	101	70	130				
Propane			4.91	Mol %	0.01	99	70	130				
Isobutane	e		1.99	Mol %	0.01	99	70	130				
n-Butane			2.05	Mol %	0.01	102	70	130				
Isopentar	ne		1.01	Mol %	0.01	101	70	130				
n-Pentan	e		0.98	Mol %	0.01	98	70	130				
Hexanes	plus		0.72	Mol %	0.01	90	70	130				

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ENERGY ABORATORIES

Trust our People. Trust our Data. www.energylab.com Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

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Work Order Receipt Checklist

Hall Environmental

Login completed by:	Danielle N. Harris Date Received: 11/13/2023							
Reviewed by:	Icadreau		Received by: cmj					
Reviewed Date:	11/16/2023	Carrier name: FedEx						
Shipping container/cooler in	good condition?	Yes 🗹	No 🗌	Not Present				
Custody seals intact on all sl	hipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present				
Custody seals intact on all se	ample bottles?	Yes	No 🗌	Not Present 🗹				
Chain of custody present?		Yes 🗹	No 🗌					
Chain of custody signed whe	en relinquished and received?	Yes 🗹	No 🗌					
Chain of custody agrees with	n sample labels?	Yes 🗹	No 🗌					
Samples in proper container	/bottle?	Yes 🗹	No 🗌					
Sample containers intact?		Yes 🗹	No 🗌					
Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌					
All samples received within h (Exclude analyses that are c such as pH, DO, Res Cl, Su	nolding time? onsidered field parameters Ifite, Ferrous Iron, etc.)	Yes 🗹	No 🗌					
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable				
Container/Temp Blank temp	erature:	13.4°C No Ice						
Containers requiring zero he bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted				
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable 🗹				

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None

Environment Testing South Central. LLC 4901 Hawkins NE Albuquerque. NM 87109 7EL: 505-345-3107 FAX: 505-345-4107 Website: www.hallenvironmental.com \$22111 UQ13	(406) 252-6069			AL COMMENTS			
Eurofins I	FAX	EMAIL		NALYTIC			
l oe:	(406) 869-6253	-		CONTAINERS	1 Natural Gas Analysis		
ECORD MAGE	PHONE	ACCOUNT #.		COLLECTION	8/2023 12:10:00 PM		
IODY RI	sa			MATRIX	Air 11/		
OF CUS	Laboratori			BOTILE TYPE	TEDLAR		
CHAIN	Energy						
ment Testing	bs -Billings COMPANY	127th Street	T 59107	CLIENT SAMPLE ID	ent 11-18-23		
urofins Environ	NTRATOR Energy La	ss 1120 South	TATE, ZIP. Billings, M	SAMPLE	2311498-001B Influe		
ບ •	SUB C	ADDRU	CITY,	ITEM	н		



SPECIAL INSTRUCTIONS / COMMENTS:

Received by OCD: 1/12/2024 11:24:23 AM

Released to Imaging: 4/5/2024 3:22:17 PM

🔅 eurofins	Environment T	Eurofins Ei estin TEL: 505-345- Website: ww	wironment Testing S Central. 4901 Hawkin Albuquerque, NM 8 3975 FAX: 505-345- w.hallenvironmental	outh LLC s NE Sarr 7109 4107 L.com	ple Log-In C	heck List
Client Name: HILCO	ORP ENERGY	Work Order Nur	nber: 2311498		RcptNo:	1
Received By: Juar	n Rojas	11/9/2023 7:10:00	AM	Guarda g		
Completed By: Trac Reviewed By: $5c_{1}$	M 11/9/23	11/9/2023 11:21:1	9 AM			
Chain of Custody						
1. Is Chain of Custody	complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample	e delivered?		<u>Courier</u>			
Log In						
3. Was an attempt mad	de to cool the sample	es?	Yes 🗌	No 🗹	NA 🗌	
4. Were all samples rec	ceived at a temperate	ure of >0° C to 6.0°C	Yes 🗌 🗧	Νο	NA 🗹	
5. Sample(s) in proper	container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample vol	lume for indicated te	st(s)?	Yes 🔽	No 🗌		
7. Are samples (except	VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗆		
8. Was preservative ad	ded to bottles?		Yes	No 🗹	NA 🗌	
9. Received at least 1 v	vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10, Were any sample co	ontainers received br	oken?	Yes	No 🗹		
11.Does paperwork mat	tch bottle labels?		Yes 🗹	No 🗌	# of preserved bottles checked for pH:	<u> </u>
(Note discrepancies	on chain of custody)				(<2 or Adjusted?	>12 unless noted)
12. Are matrices correct	ly identified on Chain	of Custody?	Yes 🗹		/ lajusted.	
13. Is it clear what analy	ses were requested?		Yes 🗹		Checked by:	11 11-0.73
(If no, notify custome	er for authorization.)		res 💌			A li les
Special Handling (i	f applicable)				Ĺ	
15. Was client notified of	of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗹	
Person Notifie By Whom: Regarding:	ions: Marilla and de	Dat Via	e: : eMail I	Phone 🗌 Fax	In Person	
16 Additional arms to	. Invalling addre	ss phone number and E	maii/rax are missir	ig on COC- IM	0 11/9/23	1
Additional remarks:						
17. <u>Cooler Information</u>		Seal Intact Seal No.	Seel Date	Signed By		
1 NA	Good	Yes		orgined by		

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	LABORATORY	mental.com erque, NM 87109	505-345-4107	Request	()104	QJZ QJZ	(Arcese Presed A		imei J	8270 (S								() 01050/1 m	C CVICED	ly notated on the analytical report.
		www.hallenviron 4901 Hawkins NE - Albuqu	Tel. 505-345-3975 Fax	Analysis	¢O\$	b0*' 6 08IW2 bCB, ² 50 \ WK	2808/2 5908/2 504.1) 5072 5072 5072 5072 5072 5072 5075 5075	(GF 103 110 110 110 110 110 110 110 110 110	3 Me 3 Me 3 Me 3 Me 3 Me	8260 (V 8081 Pd PPHs b RCRA 8 8081 Pd RCRA 8 8081 Pd								emarks: Shyde	Alower and	ssibility. Any sub-contracted data will be clear
Turn-Around Time:	Kstandard 🗆 Rush	Project Name: Seun Juran 32-9 #41.A	Project #:		Project Manager:	Stuart Hyde	Sampler: D. Surry S On Ice: D Yes D-No	# of Coolers:)	Cooler Temp(Induding CF): N/A (°C)	Container Preservative HEAL No.	274/hr 001)		Recorded by: Via: Date Time R.	Received by: Via: Date Time	contracted to other accredited laboratories. This serves as notice of this po
Chain-of-Custody Record	Client: Mil corp Emergy Co	Alth: Mitch Killeugh Vailing Address:		Phone #:	email or Fax#:	2A/QC Package: □ Standard	Accreditation:	D EDD (Type)	F	Date Time Matrix Sample Name	11-83 12.10 Air Influent 11-18-23						2	Date: Time: Relinvuished by:	Date: Time: Relinquished by:	If necessary, samples submitted to Hall Environmental may be subc

leased to Imaging: 4/3/2024 5:22:1/ LIM Re



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 04, 2023

Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: San Juan 32 9 Un 41 A

OrderNo.: 2311962

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 11/17/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

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Analytical Report Lab Order 2311962

Date Reported: 12/4/2023

Hall	Environmental	Analy	sis Lah	orstory	Inc
11411	L'IIVII UIIIICIItai	Allary	515 Lau)01 ator y,	IIIC.

CLIENT: HILCORP ENERGY	Client Sample ID: San Juan 32-9 #41A influent									
Project: San Juan 32 9 Un 41 A	Collection Date: 11/16/2023 12:45:00 PM									
Lab ID: 2311962-001	Matrix: AIR	Recei	ved Date	:11/17/	2023 6:15:00 AM					
Analyses	Result	RL Qua	l Units	DF	Date Analyzed					
EPA METHOD 8260B: VOLATILES					Analyst: CCM					
Benzene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM					
Toluene	9.6	5.0	µg/L	50	11/21/2023 1:45:00 PM					
Ethylbenzene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM					
Methyl tert-butyl ether (MTBE)	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
1,2,4-Trimethylbenzene	6.7	5.0	µg/L	50	11/21/2023 1:45:00 PM					
1,3,5-Trimethylbenzene	7.2	5.0	μg/L	50	11/21/2023 1:45:00 PM					
1,2-Dichloroethane (EDC)	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
1,2-Dibromoethane (EDB)	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
Naphthalene	ND	10	µg/L	50	11/21/2023 1:45:00 PM					
1-Methylnaphthalene	ND	20	µg/L	50	11/21/2023 1:45:00 PM					
2-Methylnaphthalene	ND	20	µg/L	50	11/21/2023 1:45:00 PM					
Acetone	ND	50	µg/L	50	11/21/2023 1:45:00 PM					
Bromobenzene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM					
Bromodichloromethane	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM					
Bromoform	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM					
Bromomethane	ND	10	μg/L	50	11/21/2023 1:45:00 PM					
2-Butanone	ND	50	μg/L	50	11/21/2023 1:45:00 PM					
Carbon disulfide	ND	50	μg/L	50	11/21/2023 1:45:00 PM					
Carbon tetrachloride	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
Chlorobenzene	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
Chloroethane	ND	10	μg/L	50	11/21/2023 1:45:00 PM					
Chloroform	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
Chloromethane	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
2-Chlorotoluene	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
4-Chlorotoluene	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
cis-1,2-DCE	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
cis-1,3-Dichloropropene	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
1,2-Dibromo-3-chloropropane	ND	10	μg/L	50	11/21/2023 1:45:00 PM					
Dibromochloromethane	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
Dibromomethane	ND	10	μg/L	50	11/21/2023 1:45:00 PM					
1,2-Dichlorobenzene	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
1,3-Dichlorobenzene	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
1,4-Dichlorobenzene	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
Dichlorodifluoromethane	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
1,1-Dichloroethane	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM					
1,1-Dichloroethene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM					
1,2-Dichloropropane	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM					
1,3-Dichloropropane	ND	5.0	μg/L	50	11/21/2023 1:45:00 PM					
2,2-Dichloropropane	ND	5.0	µg/L	50	11/21/2023 1:45:00 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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

Е Above Quantitation Range/Estimated Value J

Analyte detected below quantitation limits

- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2311962

Date Reported: 12/4/2023

CLIENT. HILCODD ENEDGY		Client S	mnla ID	Con I	uon 22 0 #41 A influent
CLIENT: HILCORPENERGY		Client Sa		: San Ju	ian 32-9 #41A inituent
Project: San Juan 32 9 Un 41 A		Collect	ion Date	: 11/16/	2023 12:45:00 PM
Lab ID: 2311962-001	Matrix: AIR	Recei	ved Date	: 11/17/	2023 6:15:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
1,1-Dichloropropene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
Hexachlorobutadiene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
2-Hexanone	ND	50	µg/L	50	11/21/2023 1:45:00 PM
Isopropylbenzene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
4-Isopropyltoluene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
4-Methyl-2-pentanone	ND	50	µg/L	50	11/21/2023 1:45:00 PM
Methylene chloride	ND	15	µg/L	50	11/21/2023 1:45:00 PM
n-Butylbenzene	ND	15	µg/L	50	11/21/2023 1:45:00 PM
n-Propylbenzene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
sec-Butylbenzene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
Styrene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
tert-Butylbenzene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
Tetrachloroethene (PCE)	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
trans-1,2-DCE	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
trans-1,3-Dichloropropene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
1,1,1-Trichloroethane	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
Trichloroethene (TCE)	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
Trichlorofluoromethane	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
1,2,3-Trichloropropane	ND	10	µg/L	50	11/21/2023 1:45:00 PM
Vinyl chloride	ND	5.0	µg/L	50	11/21/2023 1:45:00 PM
Xylenes, Total	64	7.5	µg/L	50	11/21/2023 1:45:00 PM
Surr: Dibromofluoromethane	98.0	70-130	%Rec	50	11/21/2023 1:45:00 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	50	11/21/2023 1:45:00 PM
Surr: Toluene-d8	109	70-130	%Rec	50	11/21/2023 1:45:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	50	11/21/2023 1:45:00 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: CCM
Gasoline Range Organics (GRO)	2600	250	µg/L	50	11/21/2023 1:45:00 PM
Surr: BFB	100	70-130	%Rec	50	11/21/2023 1:45:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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ANALYTICAL SUMMARY REPORT

December 04, 2023

Hall Environmen	ntal				
4901 Hawkins S	t NE Ste D				
Albuquerque, NI	W 87109-4372				
Work Order:	B23111612	Quote ID: B15626	i		
Project Name:	Not Indicated				
Energy Laborato	ories Inc Billings MT receiv	ed the following 1	sample for Hall	Environmen	tal on 11/21/2023 for analysis.
Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B23111612-001	2311962-001B, San Juan 32-9 #41A influen	11/16/23 12:45 it	11/21/23	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental **Project:** Not Indicated Lab ID: B23111612-001 Client Sample ID: 2311962-001B, San Juan 32-9 #41A influent

Report Date: 12/04/23 Collection Date: 11/16/23 12:45 DateReceived: 11/21/23 Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.43	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Nitrogen	78.16	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Carbon Dioxide	0.23	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Hexanes plus	0.18	Mol %		0.01		GPA 2261-95	12/01/23 10:05 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	12/01/23 10:05 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	12/01/23 10:05 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	12/01/23 10:05 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	12/01/23 10:05 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	12/01/23 10:05 / jrj
Hexanes plus	0.076	gpm		0.001		GPA 2261-95	12/01/23 10:05 / jrj
GPM Total	0.076	gpm		0.001		GPA 2261-95	12/01/23 10:05 / jrj
GPM Pentanes plus	0.076	gpm		0.001		GPA 2261-95	12/01/23 10:05 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	9			1		GPA 2261-95	12/01/23 10:05 / jrj
Net BTU per cu ft @ std cond. (LHV)	8			1		GPA 2261-95	12/01/23 10:05 / jrj
Pseudo-critical Pressure, psia	545			1		GPA 2261-95	12/01/23 10:05 / jrj
Pseudo-critical Temperature, deg R	240			1		GPA 2261-95	12/01/23 10:05 / jrj
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	12/01/23 10:05 / jrj
Air, %	97.91			0.01		GPA 2261-95	12/01/23 10:05 / jrj

The analysis was not corrected for air.

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

12/01/23 10:05 / jrj



Billings, MT 406.252.6325 • Casper, WY 307.435.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Report Date: 12/04/23

QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	Hall Environmental	Work Order: B23111612

Analyte		Count	Result	Units	RL	%REC L	ow Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R413045
Lab ID:	B23111612-001ADUP	12 San	nple Duplic	ate		R	un: GC789	90_231201A		12/01/	/23 10:57
Oxygen			21.5	Mol %	0.01				0.2	20	
Nitrogen			78.2	Mol %	0.01				0	20	
Carbon D	ioxide		0.20	Mol %	0.01				14	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	e		<0.01	Mol %	0.01					20	
n-Pentane	e		<0.01	Mol %	0.01					20	
Hexanes	plus		0.17	Mol %	0.01				5.7	20	
Lab ID:	LCS120123	11 Lab	oratory Co	ntrol Sample		R	un: GC789	90_231201A		12/01/	/23 04:00
Oxygen			0.52	Mol %	0.01	104	70	130			
Nitrogen			7.02	Mol %	0.01	117	70	130			
Carbon D	ioxide		1.01	Mol %	0.01	102	70	130			
Methane			73.7	Mol %	0.01	99	70	130			
Ethane			5.99	Mol %	0.01	100	70	130			
Propane			5.02	Mol %	0.01	102	70	130			
Isobutane	•		1.85	Mol %	0.01	92	70	130			
n-Butane			2.02	Mol %	0.01	101	70	130			
Isopentan	e		1.03	Mol %	0.01	103	70	130			
n-Pentane	e		1.04	Mol %	0.01	104	70	130			
Hexanes	nlus		0.83	Mol %	0.01	104	70	130			

ENERGY ABORATORIES

Trust our People. Trust our Data. www.energylab.com Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Work Order Receipt Checklist

Hall Environmental

Login completed by:	Danielle N. Harris	Date Received: 11/21/2023							
Reviewed by:	Received by: lel								
Reviewed Date:	Carrier name: FedEx								
Shipping container/cooler in	Yes 🗹	No 🗌	Not Present						
Custody seals intact on all sl	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 whe	en relinquished and received?	Yes 🖌	No 🗌						
Chain of custody agrees with	n sample labels?	Yes 🖌	No 🗌						
Samples in proper container	/bottle?	Yes 🖌	No 🗌						
Sample containers intact?		Yes 🖌	No 🗌						
Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌						
All samples received within h (Exclude analyses that are c such as pH, DO, Res Cl, Su	nolding time? onsidered field parameters Ifite, Ferrous Iron, etc.)	Yes 🖌	No 🗌						
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable					
Container/Temp Blank temp	erature:	16.2°C No Ice							
Containers requiring zero he bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted					
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable					

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None

Eurofins Environment Pesting South Contral. LLC 4901 Hawkins NE Albuanerane, NM 87109	TEL: 505-345-3975 F.I.N: 505-345-4107 Website: www.hallenvironmental.com	53 FAX (406) 252-6069 EMAIL		ANALYTICAL COMMENTS alysis- C02+02
CHAIN OF CUSTODY RECORD PAGE 0F		Energy Laboratories PHONE (406) 869-625 ACCOUNT #	#CONT.	BOTTLE COLLECTION IN TYPE MATRIX DATE 33 TYPE MATRIX DATE 33 TEDLAR Air 11/16/2023.12.45:00 PM 1 Natural Gas An
🐝 eurofins Environment (terring		SUB CONTRATOR Energy Labs - Billings COMPANY ADDRESS 1120 South 27th Street	Billings, MT 59107	ITEM SAMPLE CLIENT SAMPLE ID 1 2311962-001B San Juan 32-9 #41A influent

Relinquisited By. Date Time Received By. Date Time HARDCOPY (extra cost) FAX EMAIL ONLINE Relinquisited By Date Time Received By. Date Time FOR LAB USE ONLY FOR LAB USE ONLY Relinquisited By Date Time Received By. Date Time FOR LAB USE ONLY Table Table Automotion of samples C Attempt to Cool?	Relinquished By.	Date 11/17/2023	Time 11-34 AM	Received By.	Date: Time	REPORT TRANSMITTAL DESIRED:
Reinquished By Date Time Received of Action C Date() Action C Date() FOR LAB USE ONLY TAT: Sandard RUSH Next BD 2nd BD 3rd BD 3rd BD 3rd BD	Relinquished By.	Date	Time.	Received By:	Date: Time:	HARDCOPY (extra cost) FAX EMAIL ONLINE
TAT: Standard RUSH Next BD 2nd BD id BD id BD id BD	Relinquished By	Date:	Time	Received & Ledone	Servan Er/K/Matta	FOR LAB USE ONLY Temp of samples C Attempt to Cool ?
	TAT:	Standard	RUSH	V Next BD 2nd BD	CIB 191	

Received by OCD: 1/12/2024 11:24:23 AM

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🔆 eurofins

Page 99 of 122

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HILCORP ENERGY Wor	k Order Number: 2311962		RcptNo: 1	1
Received By: Tracy Casarrubias 11/17/	2023 6:15:00 AM			
Completed By: Tracy Casarrubias 11/17/	2023 11:30:31 AM			
Reviewed By: CMC 11/17	173			
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?	Courier			
Log In				
5. Was an attempt made to cool the samples?	Yes 🗀	NO 🖳		
4. Were all samples received at a temperature of $>0^\circ$ (c to 6.0°C Yes □	No V	W 120 NA M	
5. Sample(s) in proper container(s)?	Yes V	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌		
7_{\cdot} Are samples (except VOA and ONG) properly preser	ved? Yes 🗹	No 🗌		
8. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗀	
9. Received at least 1 vial with headspace <1/4" for AQ	VOA? Yes	No 🗔	NA 🗹	
0. Were any sample containers received broken?	Yes ∐	No 🗹	# of preserved	ľ
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	for pH: (<2 or >	12 unless noted)
2 Are matrices correctly identified on Chain of Custody	?Yes 🗹	No 🗌	Adjusted?	, I
3. Is it clear what analyses were requested?	Yes 🗹	No 🗌		Am
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this orde	er? Yes 🗌	Νο	NA 🗹	
Person Notified:	Date:			
By Whom:	Via: 🗌 eMail 🗍 f	Phone 🗌 Fax	In Person	
Regarding:				
Client Instructions: Mailing address, phone n	umber, and Email/Fax are miss	ing on COC- TN	IC 11/17/23	
16. Additional remarks:				
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intac	t Seal No Seal Date	Signed By		
		Signed by		

נו אין	Date: Time: Relinquished by: 14/423 15,20 Date: Time: Relinquished by: 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/			8	1/16/22/1245 air Sandran 329-#441A Infloort		EDD (Type)	Accreditation: Az Compliance NELAC Other	QA/QC Package:	email or Fax#:	Phone #:	Mailing Address:	The source of the states	Client:
omtracted to other accredited laboratories. This serves as notice of th	Received by: Via: Date Time				Zortedlar - 001	Cooler Temp(Inducting CF): N/A (C) Container Preservative HEAL No. Type and # Type 73119 (02	# of Coolers:	Sampler:ch Wyars	shyde anslum.com	Project Manager: Styort Hyda	riojeci #.	Sander 31-T UN#41A	Project Name:	Turn-Around Time: v Standard □ Rush
iis possibility. Any su	Remarks: (c 2 Myer 2 burns				2	BTEX / N PH:8015 8081 Pest	D(C	E / TM ROY D les/808	B's (80 RO / M 2 PCB'	21) RO) s	Tel. 505	4901 Hav		
b-contracted data w ^{ill}	S O BUSP					EDB (Met PAHs by RCRA 8 M CI, F, Br,	hod 831 Meta	0 or 82 als D ₃ , NO	70SIM	S SO4	-345-3975 Anal	wkins NE - All	www.hallen	HALL E
<i>t 11:</i> 24:23 <i>AN</i>	low (or				\checkmark	.8260 (VO 8270 (Sei T _e otal Coli	A) mi-\ forr	DI /OA) n (Pres	list- ent/Ab	sent)	rax 505-345 ysis Reques	ouquerque, N	/ironmental.co	NVIRO SIS LAE
on the analytical received the second statement of the second sec	7				<	Fixod	Sé	5 C($)_{2}$ ()2	4107	M 87109	om	NMEN
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FOR LAB USE ONLY	Time	Date	Received By:	Time	Date:	Relinquished By:
HARDCOPY (extra cost)	Time:	Date:	Received By:	Time:	Date	Relinquished By:
REPORT TRANSMITTAL DESIRED:	Time:	Date	Received By	Time: 11:34 AN	Date: 1.1/17/2023	Relinquished By

	sis- CO2+02	1 1 Natural Gas Analys	11/16/2023 12:45:00 PN	Air	TEDLAR	1 2311962-001B San Juan 32-9 #41A influent
AL COMMENTS	ANALYTIC/	= COATAINERS	COLLECTION DATE	MATRIX	BOTTLE	JTEM SAMPLE CLIENT SAMPLE ID
						CITY, STATE, ZIP- Billings, MT 59107
	EMAIL		ACCOUNT #			ADDRESS: 1120 South 27th Street
(406) 252-6069	FAX	(406) 869-6253	PHONE	ries	Energy Laborato	SUB CONTRATOR Energy Labs -Billings COMPANY
the heiter where hall environmental com						
FAX: 505-345-4107						

OF: [

eurotins

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CHAIN OF CUSTODY RECORD PAGE



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 15, 2023

Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: San Juan 32 9 41 A

OrderNo.: 2311D06

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 11/29/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: HILCORP ENERGY

San Juan 32 9 41 A

Project:

Analytical Report Lab Order 2311D06

Date Reported: 12/15/2023

Hall Environmental	Analysis	Laboratory,	Inc.
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Client Sample ID: San Juan 32-9 #41A Influent Collection Date: 11/28/2023 12:45:00 PM Received Date: 11/29/2023 6:30:00 AM

Lab ID: 2311D06-001	Matrix: AIR	Recei	ved Date:	: 11/29/	/2023 6:30:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst: JJP
Gasoline Range Organics (GRO)	350	5.0	µg/L	1	12/7/2023 3:28:44 PM
Surr: BFB	1000	15-412 S	%Rec	1	12/7/2023 3:28:44 PM
EPA METHOD 8260B: VOLATILES					Analyst: CCM
Benzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Toluene	0.91	0.10	µg/L	1	12/7/2023 2:38:00 PM
Ethylbenzene	0.14	0.10	µg/L	1	12/7/2023 2:38:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,2,4-Trimethylbenzene	0.64	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,3,5-Trimethylbenzene	0.85	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,2-Dichloroethane (EDC)	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,2-Dibromoethane (EDB)	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Naphthalene	ND	0.20	µg/L	1	12/7/2023 2:38:00 PM
1-Methylnaphthalene	ND	0.40	µg/L	1	12/7/2023 2:38:00 PM
2-Methylnaphthalene	ND	0.40	µg/L	1	12/7/2023 2:38:00 PM
Acetone	ND	1.0	µg/L	1	12/7/2023 2:38:00 PM
Bromobenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Bromodichloromethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Bromoform	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Bromomethane	ND	0.20	µg/L	1	12/7/2023 2:38:00 PM
2-Butanone	ND	1.0	µg/L	1	12/7/2023 2:38:00 PM
Carbon disulfide	ND	1.0	µg/L	1	12/7/2023 2:38:00 PM
Carbon tetrachloride	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Chlorobenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Chloroethane	ND	0.20	µg/L	1	12/7/2023 2:38:00 PM
Chloroform	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Chloromethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
2-Chlorotoluene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
4-Chlorotoluene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
cis-1,2-DCE	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
cis-1,3-Dichloropropene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,2-Dibromo-3-chloropropane	ND	0.20	µg/L	1	12/7/2023 2:38:00 PM
Dibromochloromethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Dibromomethane	ND	0.20	µg/L	1	12/7/2023 2:38:00 PM
1,2-Dichlorobenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,3-Dichlorobenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,4-Dichlorobenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Dichlorodifluoromethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,1-Dichloroethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,1-Dichloroethene	ND	0.10	µg/L	1	12/7/2023 2:38:00 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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е J

Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2311D06

Hall Environmental Analysi	s Laboratory, Inc.			Da	te Reported: 12/15/2023
CLIENT: HILCORP ENERGY Project: San Juan 32 9 41 A Lab ID: 2311D06-001	Matrix: AIR	Client Sar Collecti Receiv	mple ID on Date: ed Date:	: San Ju : 11/28/ : 11/29/	aan 32-9 #41A Influent 2023 12:45:00 PM 2023 6:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
1,2-Dichloropropane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,3-Dichloropropane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
2,2-Dichloropropane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,1-Dichloropropene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Hexachlorobutadiene	ND	0.10	μg/L	1	12/7/2023 2:38:00 PM
2-Hexanone	ND	1.0	μg/L	1	12/7/2023 2:38:00 PM
Isopropylbenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
4-Isopropyltoluene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
4-Methyl-2-pentanone	ND	1.0	µg/L	1	12/7/2023 2:38:00 PM
Methylene chloride	ND	0.30	μg/L	1	12/7/2023 2:38:00 PM
n-Butylbenzene	ND	0.30	µg/L	1	12/7/2023 2:38:00 PM
n-Propylbenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
sec-Butylbenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Styrene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
tert-Butylbenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,1,1,2-Tetrachloroethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,1,2,2-Tetrachloroethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Tetrachloroethene (PCE)	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
trans-1,2-DCE	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
trans-1,3-Dichloropropene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,2,3-Trichlorobenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,2,4-Trichlorobenzene	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,1,1-Trichloroethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,1,2-Trichloroethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Trichloroethene (TCE)	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Trichlorofluoromethane	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
1,2,3-Trichloropropane	ND	0.20	µg/L	1	12/7/2023 2:38:00 PM
Vinyl chloride	ND	0.10	µg/L	1	12/7/2023 2:38:00 PM
Xylenes, Total	6.6	0.15	µg/L	1	12/7/2023 2:38:00 PM
Surr: Dibromofluoromethane	93.4	70-130	%Rec	1	12/7/2023 2:38:00 PM
Surr: 1,2-Dichloroethane-d4	87.1	70-130	%Rec	1	12/7/2023 2:38:00 PM
Surr: Toluene-d8	121	70-130	%Rec	1	12/7/2023 2:38:00 PM
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	12/7/2023 2:38:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

- Р Sample pH Not In Range
- RL Reporting Limit

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ANALYTICAL SUMMARY REPORT

December 08, 2023

Hall Environmen	ntal				
4901 Hawkins S	t NE Ste D				
Albuquerque, NI	W 87109-4372				
Work Order:	B23112064	Quote ID: B15626	6		
Project Name:	Not Indicated				
Energy Laborato	ories Inc Billings MT receiv	red the following 1	sample for Hall	Environmen	tal on 11/30/2023 for analysis.
Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B23112064-001	2311D06-001B, San Juan 32-9 #41A Influer	11/28/23 12:45 ht	5 11/30/23	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:Hall EnvironmentalProject:Not IndicatedLab ID:B23112064-001Client Sample ID:2311D06-001B, San Juan 32-9 #41A Influent

Report Date: 12/08/23 Collection Date: 11/28/23 12:45 DateReceived: 11/30/23 Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.67	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Nitrogen	78.27	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Carbon Dioxide	0.06	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-95	12/06/23 01:35 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	12/06/23 01:35 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	12/06/23 01:35 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	12/06/23 01:35 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	12/06/23 01:35 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	12/06/23 01:35 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/06/23 01:35 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-95	12/06/23 01:35 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/06/23 01:35 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-95	12/06/23 01:35 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-95	12/06/23 01:35 / jrj
Pseudo-critical Pressure, psia	545			1		GPA 2261-95	12/06/23 01:35 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-95	12/06/23 01:35 / jrj
Specific Gravity @ 60/60F	0.998			0.001		D3588-81	12/06/23 01:35 / jrj
Air, % - The analysis was not corrected for air.	99.01			0.01		GPA 2261-95	12/06/23 01:35 / jrj

COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit 12/06/23 01:35 / jrj



Billings, MT 406.252.6325 • Casper, WY 307.235.0515 f 122 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Report Date: 12/08/23

QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	Hall Environmental	Work Order:	B23112064
Chent.		WOIK OIUCI.	DZ3112004

0.74

Mol %

Analyte Count Result Units **RL %REC Low Limit High Limit RPD RPDLimit** Qual GPA 2261-95 Batch: R413302 Method: Lab ID: B23120241-001ADUP 12 Sample Duplicate Run: GCNGA-B 231206A 12/06/23 04:07 Mol % 0 20 Oxygen 21.4 0.01 Nitrogen 78.0 Mol % 0.01 0.0 20 0.0 Carbon Dioxide 0.42 20 Mol % 0.01 <0.01 20 Hydrogen Sulfide Mol % 0.01 20 Methane < 0.01 Mol % 0.01 Ethane < 0.01 Mol % 0.01 20 Propane < 0.01 Mol % 0.01 20 < 0.01 0.01 20 Isobutane Mol % n-Butane < 0.01 Mol % 0.01 20 Isopentane < 0.01 Mol % 0.01 20 n-Pentane < 0.01 Mol % 0.01 20 0.11 Mol % 0.01 9.5 20 Hexanes plus Lab ID: LCS120623 11 Laboratory Control Sample Run: GCNGA-B_231206A 12/06/23 03:15 104 Oxygen 0.52 Mol % 0.01 70 130 Nitrogen 6.39 Mol % 0.01 106 70 130 70 0.99 Carbon Dioxide Mol % 0.01 100 130 Methane 74.6 0.01 100 70 130 Mol % 70 Ethane 6.03 Mol % 0.01 100 130 70 Propane 5.07 Mol % 0.01 103 130 70 Isobutane 1.76 Mol % 0.01 88 130 70 n-Butane 1.97 Mol % 0.01 98 130 70 Isopentane 0.98 Mol % 0.01 98 130 n-Pentane 0.96 Mol % 0.01 96 70 130

0.01

93

70

130

Hexanes plus

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

B23112064

Work Order Receipt Checklist

Hall Environmental

Login completed by:	Yvonna E. Smith		Date	Received: 11/30/2023	
Reviewed by: Icadreau		Received by: dnh			
Reviewed Date:	12/5/2023	Carrier name: FedEx			
Shipping container/cooler in	good condition?	Yes 🗸	No 🗌	Not Present	
Custody seals intact on all shipping container(s)/cooler(s)?		Yes 🗹	No 🗌	Not Present	
Custody seals intact on all sample bottles?		Yes	No 🗌	Not Present	
Chain of custody present?		Yes 🗹	No 🗌		
Chain of custody signed when relinquished and received?		Yes 🗹	No 🗌		
Chain of custody agrees with sample labels?		Yes 🗹	No 🗌		
Samples in proper container/bottle?		Yes 🗹	No 🗌		
Sample containers intact?		Yes 🗹	No 🗌		
Sufficient sample volume for indicated test?		Yes 🗹	No 🗌		
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res CI, Sulfite, Ferrous Iron, etc.)		Yes 🗹	No 🗌		
Temp Blank received in all shipping container(s)/cooler(s)?		Yes	No 🗹	Not Applicable	
Container/Temp Blank temperature:		11.6°C No Ice			
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").		Yes	No 🗌	No VOA vials submitted	
Water - pH acceptable upon receipt?		Yes	No 🗌	Not Applicable	

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None
CUSTODY RECORD PACE: 1 OF: 1 Eurofins Environment Testing South Central. 1 4901 Itavkins. Albuquerque. NM 871 TEL: 505-345-30 FAX: 505-345-41 Website: www.hallenvironmental.c	PHONE: (406) 869-6253 FAX (406) 252-6069 ACCOUNT #. EMAIL:	TTLE COLLECTION COLLECTION ANALYTICAL COMMENTS	AR Air 11/28/2003 12:45:00 PM 1 Natural gas analysis. CO2+O2 32:31/2:00 H	Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you. Date Time REPORT TRANSMITTAL DESIRED:
eurofins Environment Testing	B CONTRATOR Energy Labs -Billings COMPANY Energy Labo DRESS 1120 South 27th Street Y, STATE, ZIP Billings, MT 59107	BC SAMPLE CLIENT SAMPLE ID T	TEDI 2311D06-001B San Juan 32-9 #41A Influent	CIAL INSTRUCTIONS / COMMENTS: lease include the LAB ID and the CLIENT SAMPLE ID on all final reports. I quished By Date: 7:17 AM Received By. 7:17 AM

Comments

Page 8 of 10 Page 5 of 5

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🔅 eurofir	1S Environment Test	Eurofins Envi A TEL: 505-345-39 Website: www.	ronment Testing So Central. 1 4901 Hawkins lbuquerque. NM 87 75 FAX: 505-345-4 halleuwironmental.	uth LC NE Sam 109 107 com	ple Log-In C	Check List
Client Name:	HILCORP ENERGY	Work Order Numb	er: 2311D06		RcptNo:	1
Received By:	Tracy Casarrubias	11/29/2023 6:30:00	AM			
Completed By:	Tracy Casarrubias	11/29/2023 7:13:10	AM			
Reviewed By:	Jun/29/23					
Chain of Cust	ody					
1. Is Chain of Cu	stody complete?		Yes	No 🗹	Not Present	
2. How was the s	ample delivered?		Courier			
<u>Log In</u> 3. Was an attemp	ot made to cool the samples?		Yes 🗌	No 🔽	NA 🗌	
4. Were all sampl	es received at a temperature	of >0° C to 6.0°C	Yes	No 🗌	NA 🔽	
5. Sample(s) in p	roper container(s)?		Yes 🗹	No 🗌		
6. Sufficient samp	ble volume for indicated test(s)	?	Yes 🔽	No 🗌		
7. Are samples (e	xcept VOA and ONG) properly	preserved?	Yes 🔽	No 🗌		
8. Was preservati	ve added to bottles?		Yes 🗌	No 🔽	NA 🗌	
9. Received at lea	ast 1 vial with headspace <1/4	' for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sam	ple containers received broker	n?	Yes 🗌	No 🗹	# of preserved	i
11. Does paperwor	k match bottle labels?		Yes 🗹	No 🗌	bottles checked for pH:	r > 12 unless noted)
12 Are matrices of	ncies on chain of custody) prrectly identified on Chain of (Custody?	Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what	analyses were requested?		Yes 🗹	No 🗌		
14. Were all holdin (If no, notify cu	g times able to be met? stomer for authorization.)		Yes 🗹	No 🗌	Checked by:	SCM 11/27/23
Special Handli	ng (if applicable)					
15. Was client not	ified of all discrepancies with t	his order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date:				
By Who	m:	Via:	eMail P	hone 🗌 Fax	In Person	
Regardi	ng:					
Client In	structions: Mailing address.p	hone number and Em	ail/Fax are missing	a on COC- TM	C 11/29/23	
16. Additional ren	narks:					

17. Cooler Information

 Cooler No
 Temp °C
 Condition
 Seal Intact
 Seal No
 Seal Date
 Signed By

 1
 NA
 Good
 Yes
 Seal No
 Seal Date
 Signed By

Released to Imaging: 4/5/2024 3:22:17 PM

Page 110 of 122

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eceived by OCD: 1/12/2024 11:24:23 AM		Page 111 of 122
Chain-of-Custody Record	Turn-Around Time:	
Client: Hiltors the Mitch Killouch	🗹 Standard 🛛 Rush	ANALYSIS LABORATORY
Wkillouch@hilcorp.com Mailing Address:	Project Name: San Juan 329 #41A	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107 Analysis Reginest
Phone #:	Droiact Managar: CL + H	
email or Fax#: QA/QC Package:	Shyde Pushum. com	t (8021 s (8021 s (8021
Construction:	Sampler: Zach Myert	TMB' 102, 102, 102, 113, 113, 113, 113, 113, 113, 113, 11
DINELAC Dother	On Ice: 7es V No # of Conders:	
	Cooler Temp(Induding CF): N/A (°C)	TM 14D0 14tho 14tho 14tho 14tho 34tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14tho 14th
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 7311 DOG	BTEX / BTEX / TPH:80 BOB1 Pd BS260 (N BS260 (N BS260 (N BS260 (N CI, F, E BS260 (N BS260 (N CI, F, E CI, F, E CI, F, E BS260 (N CI, F, E CI, F, F, E CI, F, E CI, F, E CI, F,
1/28/12 1245 gras Sundern 32 9#41A Influent	+ Oxtellar - 001	
Date: Time: Relinquished by:	Received by: Via: Date Time	Remarks:
Date: Time: Relinquished by:	Received by: Via:Counter Date Time U:30	
Find the macessary, semiles submitted to Hall Environmental may be sub-	ubcontracted to other accredited laboratories. This serves as notice of thi	is possibility. Any sub-contracted data will be clearly notated on the analytical report.

Sm2



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 03, 2024

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: San Juan 32 9 41 A

OrderNo.: 2312984

Dear Stuart Hyde:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 12/16/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 2312984

Hall Environmental Analysi	s Laboratory, Inc.	Date Reported: 1/3/2024					
CLIENT: HILCORP ENERGY Project: San Juan 32 9 41 A Lab ID: 2312984-001	Matrix: AIR	Client Sample ID: San Juan 32-9 41A Influent Collection Date: 12/13/2023 11:20:00 AM Received Date: 12/16/2023 7:35:00 AM					
Analyses	Result	RL Q	ual Units	DF	Date Analyzed		
EPA METHOD 8260B: VOLATILES					Analyst: CCM		
Benzene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Toluene	3.3	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Ethylbenzene	0.60	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Methyl tert-butyl ether (MTBE)	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,2,4-Trimethylbenzene	4.8	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,3,5-Trimethylbenzene	6.1	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,2-Dichloroethane (EDC)	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Naphthalene	ND	1.0	µg/L	5	12/23/2023 8:27:00 PM		
1-Methylnaphthalene	ND	2.0	µg/L	5	12/23/2023 8:27:00 PM		
2-Methylnaphthalene	ND	2.0	µg/L	5	12/23/2023 8:27:00 PM		
Acetone	ND	5.0	µg/L	5	12/23/2023 8:27:00 PM		
Bromobenzene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Bromodichloromethane	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Bromoform	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Bromomethane	ND	1.0	μg/L	5	12/23/2023 8:27:00 PM		
2-Butanone	ND	5.0	µg/L	5	12/23/2023 8:27:00 PM		
Carbon disulfide	ND	55	µg/L	5	12/23/2023 8:27:00 PM		
Carbon tetrachloride	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Chlorobenzene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Chloroethane	ND	1.0	µg/L	5	12/23/2023 8:27:00 PM		
Chloroform	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Chloromethane	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
2-Chlorotoluene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
4-Chlorotoluene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
cis-1,2-DCE	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
cis-1,3-Dichloropropene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,2-Dibromo-3-chloropropane	ND	1.0	µg/L	5	12/23/2023 8:27:00 PM		
Dibromochloromethane	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Dibromomethane	ND	1.0	µg/L	5	12/23/2023 8:27:00 PM		
1,2-Dichlorobenzene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,3-Dichlorobenzene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,4-Dichlorobenzene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
Dichlorodifluoromethane	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,1-Dichloroethane	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,1-Dichloroethene	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,2-Dichloropropane	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
1,3-Dichloropropane	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		
2,2-Dichloropropane	ND	0.50	µg/L	5	12/23/2023 8:27:00 PM		

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

**Qualifiers:** 

в Е

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded

Н ND Not Detected at the Reporting Limit

Value exceeds Maximum Contaminant Level.

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

**Analytical Report** Lab Order 2312984

Hall Environmental Analysis Laboratory, Inc.   Date Reported: 1/3/2024										
CLIENT: HILCORP ENERGY Project: San Juan 32 9 41 A Lab ID: 2312984-001	Matrix: AIR	uan 32-9 41A Influent /2023 11:20:00 AM /2023 7:35:00 AM								
Analyses	Result	RL Q	ual	Units	DF	Date Analyzed				
EPA METHOD 8260B: VOLATILES						Analyst: CCM				
1,1-Dichloropropene	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
Hexachlorobutadiene	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
2-Hexanone	ND	5.0		μg/L	5	12/23/2023 8:27:00 PM				
Isopropylbenzene	ND	0.50		μg/L	5	12/23/2023 8:27:00 PM				
4-Isopropyltoluene	ND	0.50		μg/L	5	12/23/2023 8:27:00 PM				
4-Methyl-2-pentanone	ND	5.0		µg/L	5	12/23/2023 8:27:00 PM				
Methylene chloride	ND	1.5		µg/L	5	12/23/2023 8:27:00 PM				
n-Butylbenzene	ND	1.5		µg/L	5	12/23/2023 8:27:00 PM				
n-Propylbenzene	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
sec-Butylbenzene	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
Styrene	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
tert-Butylbenzene	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
Tetrachloroethene (PCE)	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
trans-1,2-DCE	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
trans-1,3-Dichloropropene	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
1,2,3-Trichlorobenzene	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
1,2,4-Trichlorobenzene	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
1,1,1-Trichloroethane	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
1,1,2-Trichloroethane	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
Trichloroethene (TCE)	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
Trichlorofluoromethane	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
1,2,3-Trichloropropane	ND	1.0		µg/L	5	12/23/2023 8:27:00 PM				
Vinyl chloride	ND	0.50		µg/L	5	12/23/2023 8:27:00 PM				
Xylenes, Total	27	0.75		µg/L	5	12/23/2023 8:27:00 PM				
Surr: Dibromofluoromethane	95.7	70-130		%Rec	5	12/23/2023 8:27:00 PM				
Surr: 1,2-Dichloroethane-d4	83.8	70-130		%Rec	5	12/23/2023 8:27:00 PM				
Surr: Toluene-d8	122	70-130		%Rec	5	12/23/2023 8:27:00 PM				
Surr: 4-Bromofluorobenzene	134	70-130	S	%Rec	5	12/23/2023 8:27:00 PM				
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst: CCM				
Gasoline Range Organics (GRO)	1400	10		µg/L	2	12/21/2023 4:09:00 PM				
Surr: BFB	159	70-130	s	%Rec	2	12/21/2023 4:09:00 PM				

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

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## ANALYTICAL SUMMARY REPORT

January 02, 2024

Hall Environmen	ntal				
4901 Hawkins S	t NE Ste D				
Albuquerque, NI	V 87109-4372				
Work Order:	B23121312	Quote ID: B15626	3		
Project Name:	Not Indicated				
Energy Laborato	pries Inc Billings MT receiv	ved the following 1	sample for Hall	Environmen	tal on 12/19/2023 for analysis.
Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B23121312-001	2312984-001B San Juan 32 9 41A Influen	12/13/23 11:20 t	) 12/19/23	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

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

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

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

Report Approved By:



#### LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:Hall EnvironmentalProject:Not IndicatedLab ID:B23121312-001Client Sample ID:2312984-001B San Juan 32 9 41A Influent

Report Date: 01/02/24 Collection Date: 12/13/23 11:20 DateReceived: 12/19/23 Matrix: Air

	MCL/						
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.72	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Nitrogen	78.10	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Carbon Dioxide	0.18	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-95	12/21/23 10:55 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	12/21/23 10:55 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	12/21/23 10:55 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	12/21/23 10:55 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	12/21/23 10:55 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	12/21/23 10:55 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/21/23 10:55 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-95	12/21/23 10:55 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/21/23 10:55 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-95	12/21/23 10:55 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-95	12/21/23 10:55 / jrj
Pseudo-critical Pressure, psia	545			1		GPA 2261-95	12/21/23 10:55 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-95	12/21/23 10:55 / jrj
Specific Gravity @ 60/60F	0.998			0.001		D3588-81	12/21/23 10:55 / jrj
Air, %	99.22			0.01		GPA 2261-95	12/21/23 10:55 / jrj

- The analysis was not corrected for a

#### COMMENTS

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit 12/21/23 10:55 / jrj



Billings, MT 406.252.6325 • Casper, WY 307.25.0515 f 122 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

# **QA/QC Summary Report**

Prepared by Billings, MT Branch

|--|

Work Order: B23121312 Report Date: 01/02/24

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R414191
Lab ID:	B23121312-001ADUP	12 Sar	nple Duplic	ate			Run: GCNG	A-B_231221A		12/21/	23 11:45
Oxygen			21.7	Mol %	0.01				0.1	20	
Nitrogen			78.1	Mol %	0.01				0	20	
Carbon Di	oxide		0.18	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	e		<0.01	Mol %	0.01					20	
n-Pentane	)		<0.01	Mol %	0.01					20	
Hexanes p	olus		<0.01	Mol %	0.01					20	
Lab ID:	LCS122123	11 Lab	oratory Cor	ntrol Sample			Run: GCNG	A-B_231221A		12/21/	23 02:36
Oxygen			0.64	Mol %	0.01	128	70	130			
Nitrogen			6.23	Mol %	0.01	104	70	130			
Carbon Di	oxide		0.98	Mol %	0.01	99	70	130			
Methane			74.1	Mol %	0.01	99	70	130			
Ethane			5.99	Mol %	0.01	100	70	130			
Propane			5.01	Mol %	0.01	101	70	130			
Isobutane			1.89	Mol %	0.01	94	70	130			
n-Butane			2.04	Mol %	0.01	102	70	130			
Isopentan	e		1.06	Mol %	0.01	106	70	130			
n-Pentane	)		1.08	Mol %	0.01	108	70	130			
Hexanes p	olus		0.96	Mol %	0.01	120	70	130			

ENERGY ABORATORIES

Trust our People. Trust our Data. www.energylab.com Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

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# Work Order Receipt Checklist

## Hall Environmental

DZJIZIJIZ
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Login completed by:	Crystal M. Jones		Date F	Received: 12/19/2023				
Reviewed by:	gmccartney		Received by: cmj					
Reviewed Date:	12/21/2023	Carrier name: FedEx						
Shipping container/cooler in	Yes 🗸	No 🗌	Not Present					
Custody seals intact on all s	Yes 🗸	No 🗌	Not Present					
Custody seals intact on all se	Yes	No 🗌	Not Present 🗸					
Chain of custody present?	Yes 🗹	No 🗌						
Chain of custody signed whe	Yes 🗹	No 🗌						
Chain of custody agrees with	Yes 🗹	No 🗌						
Samples in proper container	Yes 🗸	No 🗌						
Sample containers intact?	Yes 🗹	No 🗌						
Sufficient sample volume for	Yes 🗹	No 🗌						
All samples received within h (Exclude analyses that are c such as pH, DO, Res CI, Su	nolding time? onsidered field parameters Ilfite, Ferrous Iron, etc.)	Yes 🗹	No 🗌					
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable				
Container/Temp Blank temp	erature:	14.4°C No Ice						
Containers requiring zero he bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted				
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable				

#### **Standard Reporting Procedures:**

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

#### **Contact and Corrective Action Comments:**

None

VTICAL COMMENTS	# CONTAINERS	COLLECTION	MATRIX	BOTTLE TYPE	LE ID	CLIENT SAME	SAMPLE	ITEM
						s, MT 59107	ATE, ZIP. Billing	CITY, S1
dAIL.	EN	ACCOUNT #				south 27th Street	s 1120 S	ADDRES
x (406) 252-6069	(406) 869-6253 FA	PHONE	es	gy Laboratori	COMPANY: Enel	y Labs -Billings	VIRATOR Energ	SUB COI
Website: www.hallenvironmental.com								
FAX: 505-345-4107								
TEL: 505-345-3975								
Albuquerque, NM 87109								

12/13/2023 11:20:00 AM 1 Natural Gas Analysis. CO2+O2

MATRIX Air

TYPE TEDLAR

823121312

1 2312984-001B San Juan 32 9 41A Influent

CLIENT SAMPLE ID

SAMPLE

ITEM

ctat instructions / comments: clude the LAB ID and CLIENT tank you.	SAMPLE	ID on final rep	oorts. Email results to Hall.Lab@e	t.eurofinsus.com		email Hall.samplecontrol@ct.eurofinsus.com. Please return all coolers and blue ice.
D Daished By:	)ate: 12/16/2023	Time: 8:36 AM	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED:
quished By: D	late:	Time:	Received By	Date:	Time:	
D D	Jate:	Time:	Received By Crystal Tore	C 12/19/13	Time. O710	Temp of samples C Attempt to Cool ?
TAT:	A	RUSH	Next BD 2nd BD	3rd B,	D	Comments

## Received by OCD: 1/12/2024 11:24:23 AM

Eurofins Environment Testing South Central, LLC

OF:

CHAIN OF CUSTODY RECORD PAGE 1

Environment Testing

🛟 eurofins

4901 Hawkins NE

Page 8 of 10 Page 5 of 5

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#### Released to Imaging: 4/5/2024 3:22:17 PM

Environment Testin TEL: 50 Webs	ofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 05-345-3975 FAX: 505-345-4107 site: www.hallenvironmental.com	Sam	ple Log-In Check List
Client Name: HILCORP ENERGY Work Ord	ler Number: 2312984		RcptNo: 1
Received By: Tracy Casarrubias 12/16/2023	7:35:00 AM		
Completed By: Tracy Casarrubias 12/16/2023	8:33:20 AM		
Reviewed By: Juiz 18123			
Chain of Custody			_
1. Is Chain of Custody complete?	Yes 🗌	No 🗹	Not Present
2. How was the sample delivered?	Courier		
Log In	<b>X</b> 🗖		
3. Was an attempt made to cool the samples?	Yes 🖂	NU 🖳	
4. Were all samples received at a temperature of $>0^{\circ}$ C to 6	.0°C Yes 🗌	No 🗹	- MINAND
5. Sample(s) in proper container(s)?	Yes V	No 🗌	
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?	Yes	No 🗹	
9. Received at least 1 vial with headspace <1/4" for AQ VOA	Yes	No 🗌	NA 🗹
10. Were any sample containers received broken?	Yes	No 🗹	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	bottles checked for pH: (<2 of >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted.*
13. Is it clear what analyses were requested?	Yes 🔽	No 🗌	Lungan i
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by: 1000012/1
Special Handling (if applicable)			
15. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹

eMail Phone Fax In Person

Client Instructions: Mailing address.phone number and Email/Fax are missing on COC- TMC 12/16/23 16. Additional remarks:

By Whom:

Regarding:

## 17. Cooler Information

Received by OCD: 1/12/2024 11:24:23 AM

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	N/A	Good	Yes			

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<ul> <li>HALLENVIRONMENTAL</li> <li>HALLENVIRONMENTAL</li> <li>ANALYSIS LABORATORY</li> <li>www.hallenvironmental.com</li> <li>www.hallenvironmental.com</li> <li>4901 Hawkins NE - Albuquerque, NM 87109</li> <li>4901 Hawkins NE - Albuquerque, NM 87109</li> <li>Tel. 505-345-3975 Fax 505-345-4107</li> <li>Tel. 505-345-3975 Request</li> </ul>	aTEX / MTBE / TMB's (8021) TPH:8015D(GROMDRO / MRO) 3081 Pesticides/8082 PCB's PAHs by 8310 or 8270SIMS B260 (VOA) / []] 8270 (Semi-VOA) []] 10tal Coliform (Present/Absent) Total Coliform (Present/Absent) 1, year (O) / []] 1, ye			Remarks: くC: ZMY & S C のんらしい. CUM. CUM.
Turn-Around Time: Standard I Rush Project Name: Sm. Juan 32-9 #41 A Project #:	Project Manager: Stuart Hyde Shyde e ensolum.com Sampler: Lach My & On Ice: D Yes By No # of Coolers: I N/A (°C) Cooler Temp(Inatuding CF): N/A (°C)	Detaller - 001		Received by: Via: Pate Time Time Received by: Via: Counter Date Time 12/16/23 1/27 Received by: Via: Counter Date Time 0.13/16/23 1:35
Chain-of-Custody Record Client: Hilcorp ath Mitch Kilvuth Mellouch & hicorp.com Mailing Address:	email or Fax#: QA/QC Package: Candard Cackage: Candard Cackage: Candard Cackage: Cacceditation: Caccompliance Cacceditation: Caccompliance Cacceditation: Caccompliance Cacceditation: Caccompliance Cacceditation: Caccompliance Cacceditation: Caccompliance Cacceditation: Cacceditation Cacceditation: Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditation Cacceditat	1/2/23/11/20 Oas Surviv 33-9#41/1 /1/wat		Date: Time: Relinquished by: 12/62 14 Definition and by: Date: Time: Beinquished by: 14/5/D Pur WWW WWW Pates fragmes submitted to Hall Environmental may be sub-

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

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

District III

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

District IV

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

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

CONDITIONS

Action 303130

CONDIT	IONS
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	303130
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS
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Created By	Condition	Condition Date
michael.buchanan	Review of the Fourth Quarter 2023SVE System Update for San Juan 32-9 #41A: Content Satisfactory 1. Continue to conduct O&M as Hilcorp has scheduled. 2. Continue to operate system and install pitot tubes as planned. Please include notes for installation in next report submission. 3. Submit next quarterly SVE report as scheduled.	4/5/2024