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October 21, 2022

New Mexico Oil Conservation Division New Mexico Energy, Mineral, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Subject: 2022 Third Quarter – Solar SVE System Update Trunk S Harvest Four Corners, LLC Incident Number NCS1931842879 Remediation Permit Number 3RP-1014 Rio Arriba County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Harvest Four Corners, LLC (Harvest), presents the following *2022 Third Quarter – Solar SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the Trunk S (Site), located in Unit I of Section 7, Township 25 North, Range 03 West, in Rio Arriba County, New Mexico (Figure 1).

BACKGROUND

The solar SVE system was installed in late 2019, with full time system operation beginning on July 16, 2020, to remediate subsurface impacts following a release on June 25, 2019. The release occurred at the Harvest Trunk S natural gas pipeline located in Rio Arriba County, New Mexico (Figure 1) and consisted of ≥25 barrels (bbls) of condensate and 278.5 MCF of natural gas sourced from a subsurface pipeline leak. Harvest reported the release to the New Mexico Oil Conservation Division (NMOCD) on a release Notification and Corrective Action Form C-141 on September 20, 2019, and the event was assigned Incident Number NCS1931842879. Approximately 2,000 cubic yards (yd³) of impacted soil were excavated and transported off site for disposal. Due to the extent of the release the excavation was unsuccessful at removing all impacted soils and the excavation was backfilled with the stockpiled soils after repairing the pipeline leak. A solar SVE system was installed to remediate impacts resulting from the release. Reports summarizing remediation system operation for the previous quarters of system operation have been submitted to the NMOCD.

The solar SVE system is comprised of five SVE wells (SB-1 through SB-5) and a VariSun Mobile Solar SVE unit consisting of a 4.6 horsepower vacuum blower capable of extracting 190 cubic feet per minute (cfm) at 50 inches of water column (IWC) vacuum. Each SVE well has a dedicated leg with an adjustable valve and vacuum gauge to control the individual flow rates and vacuum prior to manifolding together before the liquid knockout tank and blower. Harvest utilized a solar-powered SVE system due to the remote location and the lack of electrical grid power at the site. The direct-drive blower motor is connected to the solar panels via a motor controller that automatically starts the system as sunlight is available and throttles the blower up as sun power increases throughout the day to maximize efficiency. Seasonally, there are approximately 10 hours in the winter and 12 hours in the summer of available solar power in Farmington, New Mexico. The complete solar SVE system is constructed as one unit designed for utilization at off-grid locations and operates autonomously. The layout of the solar SVE system is depicted on Figure 2.

Between full time startup of the solar SVE system on July 16, 2020, and the most recent site visit on September 15, 2022, there have been 792 days of operation, with an estimated 9,314 total hours of nominal daylight available for solar SVE system operations. Since installation, the system had an actual runtime of 9,648 hours, for an overall uptime of 103.6 percent (%) of the available runtime hours, according to the National Oceanic and Atmospheric Administration's (NOAA) National Weather Service. A table showing SVE system runtime in comparison with nominal available daylight hours per month is provided below.

Time Period	Start up July 16, 2020 to June 23, 2022	June 24, 2022 to June 30, 2022	July 1, 2022 to July 31, 2022	August 1, 2022 to August 31, 2022	September 1, 2022, to September 15, 2022				
Days Avg. Nominal Daylight Hours	708	7 14	31	31 13	15 12				
Available Runtime Hours	8,199	98	434	403	180 9.314				
	Total Available Daylight Runtime Hours Actual Runtime Hours Cumulative % Runtime								
	Quarterly Available Daylight Runtime Hours Quarterly Runtime Hours Quarterly % Runtime								

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An initial air sample was collected on July 16, 2020, from the influent side of the blower on the SVE system. Subsequent air samples were collected quarterly with the most recent sample collected on September 15, 2022 (Table 1). Samples were collected in 1-liter Tedlar® bags via a high vacuum air sampler and submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, for analyses of volatile organic compounds (VOCs) using United States Environmental Protection Agency (EPA) Method 8260B, total volatile petroleum hydrocarbons (TVPH) using EPA Method 8015, and oxygen and carbon dioxide by Gas Processors Association Method 2261.Air samples were collected in August and September due to one of the sample Tedlar® bags getting lost during shipping. Laboratory analytical reports from the August and September vapor sampling events are included as Appendix A.

Estimated air emissions were calculated using air sample data collected to-date (Table 2). The impacted mass source removal via the solar SVE system to-date is estimated to be 81,211 pounds (lbs) of TVPH. Since system startup petroleum hydrocarbon emissions have steadily declined as shown in the chart below.



🔁 E N S O L U M

Despite the expected decrease in the mass removal rate over time, the September 2022 TVPH emissions rate remained at approximately 1.31 pounds per hour (lb/hr) or approximately 31.44 pounds per day (lb/day), indicating that the SVE system is still effectively remediating the Site.

PLAN FOR NEXT QUARTER OF OPERATION

During the upcoming fourth quarter 2022 operations, Ensolum will continue to visit the Site monthly to ensure a minimum of 90% runtime efficiency continues and that any maintenance issues are addressed in a timely manner. An air sample will be collected in the fourth quarter and analyzed for VOCs using EPA Method 8260B, TVPH using EPA Method 8015, and oxygen and carbon dioxide by Gas Processors Association Method 2261. An updated quarterly report with sample results, runtime, and mass source removal will be submitted under separate cover.

Quarterly air sampling and reporting will continue until the mass removal rate declines to an asymptotic level and indicates that hydrocarbon impacts have been reduced at the Site to the maximum extent practicable. At that time, Ensolum will conduct additional soil sampling to investigate potential residual impacts and request closure if concentrations of benzene, toluene, ethylbenzene, xylenes (BTEX) and TVPH are below the applicable standards defined in the New Mexico Administrative Code (NMAC) 19.15.29.12.

If the final delineation samples indicate hydrocarbon impact has been reduced to below NMAC 19.15.29.12 Table 1 Closure Criteria, Ensolum will present the confirmation laboratory analysis data in a report and request closure of the release. Should the results indicate that analytes in the soil exceed the Table 1 Closure Criteria, Ensolum will either make operational adjustments and restart the SVE system based on the results of the investigation or develop an alternative remedial approach to reach Site closure.

Ensolum appreciates the opportunity to provide this report to the NMOCD. If you have any questions or comments regarding this update, do not hesitate to contact Danny Burns at (303) 601-1420 or via email at <u>dburns@ensolum.com</u> or Jennifer Deal at (505) 324-5128 or at <u>jdeal@harvestmidstream.com</u>.



Sincerely,

ENSOLUM, LLC

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Eric Carroll Project Geologist

Danny Burns Senior Geologist

APPENDICES

- Figure 1 Site Location Map
- Figure 2 SVE System Layout
- Table 1 Air Sample Analytical Results
- Table 2 Soil Vapor System Recovery & Emissions Summary
- Appendix A Project Photographs
- Appendix B Laboratory Analytical Reports



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FIGURES

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TABLES

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TABLE 1 SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS Harvest Midstream - Trunk S Rio Arriba County, New Mexico

Ensolum Project No. 07B2002001

Original System Analytical Result	S
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Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH/GRO (μg/L)	Oxygen (Mol %)	Carbon Dioxide (Mol %)			
7/16/2020*	4,268	1,700	1,570	29.4	517.9	NA	20.2	0.671			
9/3/2020*	1,100	45	220	22	230	NA	NA	NA			
9/30/2020*	1,200	49	480	86	770	NA	NA	NA			
10/14/2020*	1,357	150	460	15	270	68,000	20.939	0.928			
1/8/2021*	786	76	310	9.1	150	38,000	20.810	0.880			
4/9/2021*	898	50	160	8.2	140	30,000	21.541	0.485			
7/12/2021*	859	33	150	12	210	19,000	21.465	0.491			
9/29/2020*	561	15	77	5.3	85	6,500	21.567	0.536			
12/14/2021*	NM	22	140	10	170	13,000	21.828	0.404			
3/23/2022*	545	17	90	7.9	130	8,300	21.949	0.346			
6/23/2022	605	6.5	42	3.5	49	9,300	21.39	0.45			
8/11/2022	789	6.4	48	5.5	78	4,000	NS	NS			
9/15/2022	487	5.7	37	4.6	59	3,400	20.91	0.66			

Notes:

* - data collected by Animas Environmental

GRO: gasoline range organics

µg/L: micrograms per liter

Mol'%: mole percent

NM: not measured

NA: not analyzed

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

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TABLE 2 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS Harvest Four Corners - Trunk S Rio Arriba County, New Mexico

Ensolum Project No. 07B2002001

	Flow and Laboratory Analysis											
Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH (μg/L)						
7/16/2020	4,268	1,700	1,570	29.4	517.9	NS						
9/3/2020	1,100	45	220	22	230	NS						
9/30/2020	1,200	49	480	86	770	NS						
10/14/2020	1,357	150	460	15	270	68,000						
1/8/2021	786	76	310	9.1	150	38,000						
4/9/2021	898	50	160	8.2	140	30,000						
7/12/2021	859	33	150	12	210	19,000						
9/29/2021	561	15	77	5.3	85	6,500						
12/14/2021	553	22	140	10	170	13,000						
3/23/2022	545	17	90	7.9	130	8,300						
6/23/2022	605	6.5	42	3.5	49	9,300						
8/11/2022	789	6.4	48	5.5	78	4,000						
9/15/2022	487	5.7	37	4.6	59	3,400						
Average	1,078	167	291	17	220	19,950						

Average Vapor Extraction Summary

Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (Ib/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
7/16/2020	88	1,700,160	1,700,160	0.560	0.52	0.010	0.17	
9/3/2020	86	5,007,720	3,307,560	0.281	0.29	0.008	0.12	
9/30/2020	87	6,756,420	1,748,700	0.015	0.11	0.018	0.16	
10/14/2020	86	7,540,740	784,320	0.032	0.15	0.016	0.17	22.00
1/8/2021	94	12,193,740	4,653,000	0.040	0.14	0.004	0.07	17.84
4/9/2021	92	17,553,660	5,359,920	0.022	0.08	0.003	0.05	11.83
7/12/2021	85	24,127,560	6,573,900	0.013	0.05	0.003	0.06	8.11
9/29/2021	92	29,730,360	5,602,800	0.008	0.04	0.003	0.05	4.22
12/14/2021	42	31,650,600	1,920,240	0.003	0.02	0.001	0.02	2.44
3/23/2022	74	36,077,280	4,426,680	0.005	0.03	0.002	0.04	2.31
6/23/2022	47.6	39,581,592	3,504,312	0.002	0.01	0.001	0.02	2.00
8/11/2022	93	43,331,352	3,749,760	0.002	0.02	0.002	0.02	1.75
9/15/2022	97	45,892,152	2,560,800	0.002	0.02	0.002	0.02	1.31
			Average	0.08	0.11	0.01	0.08	7

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TABLE 2 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS Harvest Four Corners - Trunk S Rio Arriba County, New Mexico

Ensolum Project No. 07B2002001

	Flow and Laboratory Analysis												
Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)					
7/16/2020	322	322	180	166	3	55							
9/3/2020	963	641	180	185	5	77							
9/30/2020	1,298	335	5	38	6	55							
10/14/2020	1,450	152	5	23	2	25	31,899	15.9					
1/8/2021	2,275	825	33	112	3	61	14,718	7.4					
4/9/2021	3,246	971	21	79	3	48	11,483	5.7					
7/12/2021	4,535	1,289	17	64	4	72	10,453	5.2					
9/29/2021	5,550	1,015	8	40	3	52	4,284	2.1					
12/14/2021	6,312	762	2	13	1	15	1,862	0.9					
3/23/2022	7,309	997	5	32	2	41	2,303	1.2					
6/23/2022	8,536	1,227	3	14	1	20	2,455	1.2					
8/11/2022	9,208	672	2	11	1	15	1,175	0.6					
9/15/2022	9,648	440	1	7	1	11	578	0.3					
	Total Ma	ss Recovery to Date	462	782	37	546	81,211	41					

Notes:

cf: cubic feet cfm: cubic feet per minute µg/L: micrograms per liter Ib/hr: pounds per hour --: not sampled PID: photoionization detector ppm: parts per million TVPH: total volatile petroleum hydrocarbons

VOC : volatile organic compounds

VOC Mass Removed (lbs) = Influent VOCs (mg/m³) * Air Flow Rates (cfm) * (1 m³/35.3147 ft³) * (1 lb/453,592 mg) * Time Period (min)

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APPENDIX A

Project Photographs





APPENDIX B

Laboratory Analytical Reports



September 22, 2022

Danny Burns Harvest 1755 Arroyo Dr. Bloomfield, NM 87413 TEL: (505) 632-4475 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Trunk S SVE

OrderNo.: 2208881

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/13/2022 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



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

Case Narrative

WO#:	2208881
Date:	9/22/2022

CLIENT:	Harvest
Project:	Trunk S SVE

Analytical Notes Regarding the Fixed Gases test:

The air bag was sent to the sub lab on 8/15. The sub lab never received the cooler and FedEx has not been able to locate the cooler. This test has been cancelled.

Analytical Report Lab Order 2208881

Hall E	nvironmental Analysis	s Laboratory, I	nc.			Lab Order 2208881 Date Reported: 9/22/20	22
CLIENT: Project: Lab ID:	Harvest Trunk S SVE 2208881-001	Matrix: AIR	Co	ollection Dat	e: 8/1	luent 8-11-22 1/2022 1:45:00 PM 3/2022 7:40:00 AM	
Analyses	5	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 8015D: GASOLINE RAN	IGE				Analys	: ССМ
Gasoline	e Range Organics (GRO)	4000	250	µg/L	50	8/13/2022 3:11:00 PM	G9024
Surr:		95.3	70-130	%Rec	50	8/13/2022 3:11:00 PM	G9024
EPA ME	THOD 8260B: VOLATILES					Analysi	: CCM
Benzene	9	6.4	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
Toluene		48	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
Ethylber	nzene	5.5	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
Methyl te	ert-butyl ether (MTBE)	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
1,2,4-Tri	imethylbenzene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
1,3,5-Tri	imethylbenzene	5.2	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
	loroethane (EDC)	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
	omoethane (EDB)	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
Naphtha	lene	ND	10	µg/L	50	8/13/2022 3:11:00 PM	R902
1-Methy	Inaphthalene	ND	20	µg/L	50	8/13/2022 3:11:00 PM	R902
2-Methy	Inaphthalene	ND	20	µg/L	50	8/13/2022 3:11:00 PM	R902
Acetone		ND	50	µg/L	50	8/13/2022 3:11:00 PM	R902
Bromobe	enzene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
Bromodi	chloromethane	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
Bromofo	orm	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
Bromom	lethane	ND	10	µg/L	50	8/13/2022 3:11:00 PM	R902
2-Butan	one	ND	50	µg/L	50	8/13/2022 3:11:00 PM	R902
Carbon	disulfide	ND	50	µg/L	50	8/13/2022 3:11:00 PM	R9024
Carbon	tetrachloride	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
Chlorobe	enzene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
Chloroet	hane	ND	10	µg/L	50	8/13/2022 3:11:00 PM	R902
Chlorofo	orm	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
Chlorom	lethane	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R9024
2-Chloro	otoluene	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R9024
4-Chloro		ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
cis-1,2-[DCE	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
cis-1,3-[Dichloropropene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
1,2-Dibr	omo-3-chloropropane	ND	10	µg/L	50	8/13/2022 3:11:00 PM	R902
Dibromo	ochloromethane	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
Dibromo	omethane	ND	10	μg/L	50	8/13/2022 3:11:00 PM	R902
1,2-Dich	lorobenzene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R902
1,3-Dich	lorobenzene	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R902
1,4-Dich	lorobenzene	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R902
Dichloro	difluoromethane	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R902
1,1-Dich	loroethane	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R902
-	loroethene	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R902

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

Analyte detected in the associated Method Blank В

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

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Analytical Report Lab Order 2208881

Hall Environmental Analysi	s Laboratory, In	с.			Date Reported: 9/22/20	22				
CLIENT: Harvest Project: Trunk S SVE			-		Tuent 8-11-22 1/2022 1:45:00 PM					
Lab ID: 2208881-001	Matrix: AIR	Matrix: AIR Received Date: 8/13/2022 7:40:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 8260B: VOLATILES					Analys	t: CCM				
1,2-Dichloropropane	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
1,3-Dichloropropane	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R90248				
2,2-Dichloropropane	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R90248				
1,1-Dichloropropene	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R90248				
Hexachlorobutadiene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
2-Hexanone	ND	50	μg/L	50	8/13/2022 3:11:00 PM	R90248				
Isopropylbenzene	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R90248				
4-Isopropyltoluene	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R90248				
4-Methyl-2-pentanone	ND	50	μg/L	50	8/13/2022 3:11:00 PM	R90248				
Methylene chloride	ND	15	μg/L	50	8/13/2022 3:11:00 PM	R90248				
n-Butylbenzene	ND	15	μg/L	50	8/13/2022 3:11:00 PM	R90248				
n-Propylbenzene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
sec-Butylbenzene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
Styrene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
tert-Butylbenzene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
Tetrachloroethene (PCE)	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
trans-1,2-DCE	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
trans-1,3-Dichloropropene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
1,2,3-Trichlorobenzene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
1,2,4-Trichlorobenzene	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
1,1,1-Trichloroethane	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
1,1,2-Trichloroethane	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
Trichloroethene (TCE)	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
Trichlorofluoromethane	ND	5.0	µg/L	50	8/13/2022 3:11:00 PM	R90248				
1,2,3-Trichloropropane	ND	10	µg/L	50	8/13/2022 3:11:00 PM	R90248				
Vinyl chloride	ND	5.0	μg/L	50	8/13/2022 3:11:00 PM	R90248				
Xylenes, Total	78	7.5	μg/L	50	8/13/2022 3:11:00 PM	R90248				
Surr: Dibromofluoromethane	98.0	70-130	%Rec	50	8/13/2022 3:11:00 PM	R90248				
Surr: 1,2-Dichloroethane-d4	98.6	70-130	%Rec	50	8/13/2022 3:11:00 PM	R90248				
Surr: Toluene-d8	101	70-130	%Rec	50	8/13/2022 3:11:00 PM	R90248				
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	50	8/13/2022 3:11:00 PM	R90248				

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

* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

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Qualifiers:

Harvest

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:

Project: Trunk S SVE

Sample ID: 2208881-001adup	SampT	SampType: DUP TestCode: EPA Method 8260					8260B: Volati	es		
Client ID: Influent 8-11-22	Batch	n ID: R9	0248	F	RunNo: 90248					
Prep Date:	Analysis D				SeqNo: 32		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	6.0	5.0						7.07	20	
Toluene	44	5.0						8.07	20	
Ethylbenzene	5.2	5.0						7.12	20	
Methyl tert-butyl ether (MTBE)	ND	5.0						0	20	
1,2,4-Trimethylbenzene	ND	5.0						0	20	
1,3,5-Trimethylbenzene	5.1	5.0						1.36	20	
1,2-Dichloroethane (EDC)	ND	5.0						0	20	
1,2-Dibromoethane (EDB)	ND	5.0						0	20	
Naphthalene	ND	10						0	20	
1-Methylnaphthalene	ND	20						0	20	
2-Methylnaphthalene	ND	20						0	20	
Acetone	ND	50						0	20	
Bromobenzene	ND	5.0						0	20	
Bromodichloromethane	ND	5.0						0	20	
Bromoform	ND	5.0						0	20	
Bromomethane	ND	10						0	20	
2-Butanone	ND	50						0	20	
Carbon disulfide	ND	50						0	20	
Carbon tetrachloride	ND	5.0						0	20	
Chlorobenzene	ND	5.0						0	20	
Chloroethane	ND	10						0	20	
Chloroform	ND	5.0						0	20	
Chloromethane	ND	5.0						0	20	
2-Chlorotoluene	ND	5.0						0	20	
4-Chlorotoluene	ND	5.0						0	20	
cis-1,2-DCE	ND	5.0						0	20	
cis-1,3-Dichloropropene	ND	5.0						0	20	
1,2-Dibromo-3-chloropropane	ND	10						0	20	
Dibromochloromethane	ND	5.0						0	20	
Dibromomethane	ND	10						0	20	
1,2-Dichlorobenzene	ND	5.0						0	20	
1,3-Dichlorobenzene	ND	5.0						0	20	
1,4-Dichlorobenzene	ND	5.0						0	20	
Dichlorodifluoromethane	ND	5.0						0	20	
1,1-Dichloroethane	ND	5.0						0	20	
1,1-Dichloroethene	ND	5.0						0	20	
1,2-Dichloropropane	ND	5.0						0	20	
1,3-Dichloropropane	ND	5.0						0	20	
2,2-Dichloropropane	ND	5.0						0	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 6

Page 20 of 35

WO#:	2208881	

22-Sep-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Harvest

Project: Trunk S SVE

Sample ID: 2208881-001adup	SampT	ype: DU	P	Tes	tCode: EF	PA Method	8260B: Volati	es		
Client ID: Influent 8-11-22	Batch	n ID: R90)248	F	RunNo: 9()248				
Prep Date:	Analysis Date: 8/13/2022			S	SeqNo: 32	221633	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	5.0						0	20	
Hexachlorobutadiene	ND	5.0						0	20	
2-Hexanone	ND	50						0	20	
Isopropylbenzene	ND	5.0						0	20	
4-Isopropyltoluene	ND	5.0						0	20	
4-Methyl-2-pentanone	ND	50						0	20	
Methylene chloride	ND	15						0	20	
n-Butylbenzene	ND	15						0	20	
n-Propylbenzene	ND	5.0						0	20	
sec-Butylbenzene	ND	5.0						0	20	
Styrene	ND	5.0						0	20	
tert-Butylbenzene	ND	5.0						0	20	
1,1,1,2-Tetrachloroethane	ND	5.0						0	20	
1,1,2,2-Tetrachloroethane	ND	5.0						0	20	
Tetrachloroethene (PCE)	ND	5.0						0	20	
trans-1,2-DCE	ND	5.0						0	20	
trans-1,3-Dichloropropene	ND	5.0						0	20	
1,2,3-Trichlorobenzene	ND	5.0						0	20	
1,2,4-Trichlorobenzene	ND	5.0						0	20	
1,1,1-Trichloroethane	ND	5.0						0	20	
1,1,2-Trichloroethane	ND	5.0						0	20	
Trichloroethene (TCE)	ND	5.0						0	20	
Trichlorofluoromethane	ND	5.0						0	20	
1,2,3-Trichloropropane	ND	10						0	20	
Vinyl chloride	ND	5.0						0	20	
Xylenes, Total	74	7.5						4.50	20	
Surr: Dibromofluoromethane	50		50.00		101	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	51		50.00		103	70	130	0	0	
Surr: Toluene-d8	49		50.00		97.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	52		50.00		105	70	130	0	0	

Qualifiers:

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

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 21 of 35

WO#:	2208881
	22-Sep-22

Client: Project:	Harvest Trunk S S	SVE	
Sample ID:	2208881-001adup	SampType: DUP	TestCode: EPA Method 8015D: Gasoline Range
Client ID:	Influent 8-11-22	Batch ID: G90248	RunNo: 90248
Prop Date:		Analysis Date: 8/13/2022	Seallo 2221628

Prep Date:	Analysis [Date: 8/ *	13/2022	S	SeqNo: 32	221638	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	3700	250						6.97	20		
Surr: BFB	47000		50000		94.7	70	130	0	0		

Qualifiers:

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

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WO#: 2208881 22-Sep-22 Received by OCD: 10/31/2022 12:49:45 PM

Page	23	of 35	

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HALL ENVIRON ANALYSI LABORA		TEL: 505-345-:	ental Analysis Labo 4901 Hawk Albuguerque, NM 3975 FAX: 505-342 w.hallenvironment	ins NE 87109 Sa 1-4107	mple Log-In Ch	eck List
Client Name: Ha	arvest	Work Order Num	nber: 2208881		RcptNo: 1	
Received By: J	uan Rojas	8/13/2022 7:40:00	AM	6 Juan Engl	-]	
Completed By: T	racy Casarrubias	8/13/2022 11:11:1	5 AM			
Reviewed By:	mc	8/13/22				
Chain of Custoc	<u>dy</u>					
1. Is Chain of Custo	ody complete?		Yes 🗹	No 🗌	Not Present 🛄	
2. How was the san	nple delivered?		<u>Courier</u>			
Log In 3. Was an attempt r	nade to cool the samples	?	Yes 🗹	No 🗌	na 🗀	
4. Were all samples	received at a temperatur	e of >0° C to 6.0°C	Yes 🗌	No 🗌	NA 🗹	
5. Sample(s) in prop	per container(s)?		Yes 🔽	No 🗔		
6. Sufficient sample	volume for indicated test	s)?	Yes 🗹	No 🗌		
7. Are samples (exc	ept 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	e containers received brok	en?	Yes 🗆	No 🗹		· ·
11.Does paperwork r	natch bottle labels?		Yes 🔽	No 🗖	# of preserved bottles checked for pH:	
	es on chain of custody)					2 unless noted)
	ectly identified on Chain o	f Custody?	Yes 🔽	No 🗌	Adjusted?	
	alyses were requested?		Yes 🗹	No 🗌		~ cls127
14. Were all holding ti (If no, notify custo	imes able to be met? mer for authorization.)		Yes 🗹	No 🗌	Checked by:	18/13/22
Special Handling	(if applicable)					
15. Was client notifie	d of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹	
Person Not	lified:	Date	: [•	
By Whom:		Via:	, eMail	Phone 🗌 Fax	x 🔲 In Person	
Regarding:						
Client Instru	uctions:					
16. Additional remar	ks:					
17. <u>Cooler Informat</u> Cooler No		Seal Intact Seal No	Seal Date	Signed By	1	
1 N		es		orgined by		
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Page 1 of 1

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	AALL ENVIKONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	505-345-4107	Analysis Request		PCB's	2808	3/5	səbi	oitee9 1808													Fixed g are	2/	accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
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Turn-Around Time:	Standard	Project Name:	f work			Project Manager:	Z	A		Sample Temperature:	а # т	<i>الع</i> ل				$\overline{\}$									\mathbf{X}	lea ac
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Relea	ient:		ailing		Phone #:	email or Fax#:	AVQC Package:		O NELAP	EDD (Type)	Date	8-11-22									Y			Date:	pr -	-
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September 23, 2022

Danny Burns Harvest 1755 Arroyo Dr. Bloomfield, NM 87413 TEL: (505) 632-4475 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Trunk S

OrderNo.: 2209890

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/17/2022 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

Analytical Report Lab Order 2209890

Hall Environmental Analysi	Lab Order 2209890 Date Reported: 9/23/2022								
CLIENT: Harvest Project: Trunk S Lab ID: 2209890-001	Matrix: AIR	C	e: 9 /1	: Influent 091522 :: 9/15/2022 1:00:00 PM :: 9/17/2022 7:45:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: CCM			
Gasoline Range Organics (GRO) Surr: BFB	3400 87.2	25 70-130	μg/L %Rec	5 5	9/19/2022 5:47:00 PM 9/19/2022 5:47:00 PM	R91127 R91127			
EPA METHOD 8260B: VOLATILES					Analyst	CCM			
Benzene	5.7	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Toluene	37	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127			
Ethylbenzene	4.6	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127			
Methyl tert-butyl ether (MTBE)	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127			
1,2,4-Trimethylbenzene	2.9	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127			
1,3,5-Trimethylbenzene	3.9	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127			
1,2-Dichloroethane (EDC)	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127			
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Naphthalene	ND	1.0	μg/L	5	9/19/2022 5:47:00 PM	R91127			
1-Methylnaphthalene	ND	2.0	µg/L	5	9/19/2022 5:47:00 PM	R91127			
2-Methylnaphthalene	ND	2.0	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Acetone	ND	5.0	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Bromobenzene	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Bromodichloromethane	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Bromoform	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Bromomethane	ND	1.0	μg/L	5	9/19/2022 5:47:00 PM	R91127			
2-Butanone	ND	5.0	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Carbon disulfide	ND	5.0	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Carbon tetrachloride	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Chlorobenzene	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Chloroethane	ND	1.0	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Chloroform	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Chloromethane	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
2-Chlorotoluene	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
4-Chlorotoluene	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
cis-1,2-DCE	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
cis-1,3-Dichloropropene	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
1,2-Dibromo-3-chloropropane	ND	1.0	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Dibromochloromethane	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Dibromomethane	ND	1.0	μg/L	5	9/19/2022 5:47:00 PM	R91127			
1,2-Dichlorobenzene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127			
1,3-Dichlorobenzene	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
1,4-Dichlorobenzene	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
Dichlorodifluoromethane	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127			
1,1-Dichloroethane	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			
1,1-Dichloroethene	ND	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127			

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

Analyte detected in the associated Method Blank В

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range RL Reporting Limit

Page 1 of 2

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Hall Environmental Analysi	s Laboratory, Ir	nc.			Analytical Report Lab Order 2209890 Date Reported: 9/23/20	022				
CLIENT: Harvest Project: Trunk S Lab ID: 2209890-001	Matrix: AIR		Client Sample ID: Influent 091522 Collection Date: 9/15/2022 1:00:00 PM Received Date: 9/17/2022 7:45:00 AM							
Analyses	Result	RL	Qual Units	DF	F Date Analyzed Bat					
EPA METHOD 8260B: VOLATILES					Analys	t: CCM				
1,2-Dichloropropane	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
1,3-Dichloropropane	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
2,2-Dichloropropane	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
1,1-Dichloropropene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Hexachlorobutadiene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
2-Hexanone	ND	5.0	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Isopropylbenzene	0.70	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
4-Isopropyltoluene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
4-Methyl-2-pentanone	ND	5.0	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Methylene chloride	ND	1.5	μg/L	5	9/19/2022 5:47:00 PM	R91127				
n-Butylbenzene	ND	1.5	μg/L	5	9/19/2022 5:47:00 PM	R91127				
n-Propylbenzene	1.1	0.50	μg/L	5	9/19/2022 5:47:00 PM	R91127				
sec-Butylbenzene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Styrene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
tert-Butylbenzene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Tetrachloroethene (PCE)	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
trans-1,2-DCE	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
trans-1,3-Dichloropropene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
1,2,3-Trichlorobenzene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
1,2,4-Trichlorobenzene	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
1,1,1-Trichloroethane	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
1,1,2-Trichloroethane	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Trichloroethene (TCE)	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Trichlorofluoromethane	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
1,2,3-Trichloropropane	ND	1.0	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Vinyl chloride	ND	0.50	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Xylenes, Total	59	0.75	µg/L	5	9/19/2022 5:47:00 PM	R91127				
Surr: Dibromofluoromethane	94.2	70-130	%Rec	5	9/19/2022 5:47:00 PM	R91127				
Surr: 1,2-Dichloroethane-d4	77.6	70-130	%Rec	5	9/19/2022 5:47:00 PM	R91127				
Surr: Toluene-d8	119	70-130	%Rec	5	9/19/2022 5:47:00 PM	R91127				
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	5	9/19/2022 5:47:00 PM	R91127				

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

* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 2

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Qualifiers:



ANALYTICAL SUMMARY REPORT

September 23, 2022

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

Work Order: B22091706

Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 9/20/2022 for analysis.

Lab ID	Client Sample ID	Collect Date Rec	ceive Date	Matrix	Test
B22091706-001	2209890-001B, Influent 091522	09/15/22 13:00	09/20/22	Gas	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: B22091706-001 Client Sample ID: 2209890-001B, Influent 091522

Report Date: 09/23/22 Collection Date: 09/15/22 13:00 DateReceived: 09/20/22 Matrix: Gas

					MCL/								
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By						
GAS CHROMATOGRAPHY ANALYSIS REPORT													
Oxygen	20.91	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Nitrogen	78.43	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Carbon Dioxide	0.66	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Methane	<0.01	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Ethane	<0.01	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Propane	<0.01	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-95	09/20/22 16:06 / jrj						
Propane	< 0.001	gpm		0.001		GPA 2261-95	09/20/22 16:06 / jrj						
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	09/20/22 16:06 / jrj						
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	09/20/22 16:06 / jrj						
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	09/20/22 16:06 / jrj						
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	09/20/22 16:06 / jrj						
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-95	09/20/22 16:06 / jrj						
GPM Total	< 0.001	gpm		0.001		GPA 2261-95	09/20/22 16:06 / jrj						
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-95	09/20/22 16:06 / jrj						
CALCULATED PROPERTIES													
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-95	09/20/22 16:06 / jrj						
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-95	09/20/22 16:06 / jrj						
Pseudo-critical Pressure, psia	546			1		GPA 2261-95	09/20/22 16:06 / jrj						
Pseudo-critical Temperature, deg R	240			1		GPA 2261-95	09/20/22 16:06 / jrj						
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	09/20/22 16:06 / jrj						
Air, % - The analysis was not corrected for air.	95.53			0.01		GPA 2261-95	09/20/22 16:06 / 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

09/20/22 16:06 / jrj



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	Hall Environmental	Woi
Client:	Hall Environmental	WOI

Client:	Hall Environmental				Work Order:	B2209	1706	Repor	t Date:	: 09/23/22	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R388187
Lab ID:	B22091527-002ADUF	• 12 Sar	nple Duplic	ate			Run: GCNG	GA-B_220920A		09/20/	/22 10:57
Oxygen			20.3	Mol %	0.01				0	20	
Nitrogen			78.0	Mol %	0.01				0.0	20	
Carbon D	Dioxide		1.74	Mol %	0.01				0.6	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	
Isobutan	e		<0.01	Mol %	0.01					20	
n-Butane	9		<0.01	Mol %	0.01					20	
Isopenta	ne		<0.01	Mol %	0.01					20	
n-Pentan	1e		<0.01	Mol %	0.01					20	
Hexanes	plus		<0.01	Mol %	0.01					20	
Lab ID:	LCS092022	11 Lab	oratory Co	ntrol Sample	e		Run: GCNG	GA-B_220920A		09/20/	22 12:51
Oxygen			0.63	Mol %	0.01	126	70	130			
Nitrogen			6.13	Mol %	0.01	102	70	130			
Carbon D	Dioxide		1.01	Mol %	0.01	102	70	130			
Methane			74.0	Mol %	0.01	99	70	130			
Ethane			6.11	Mol %	0.01	102	70	130			
Propane			5.18	Mol %	0.01	105	70	130			
Isobutan	e		2.05	Mol %	0.01	102	70	130			
n-Butane	9		2.04	Mol %	0.01	102	70	130			
Isopenta	ne		1.03	Mol %	0.01	103	70	130			
n-Pentan	ie		1.03	Mol %	0.01	103	70	130			
Hexanes	plus		0.81	Mol %	0.01	101	70	130			

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B22091706

Work Order Receipt Checklist

Hall Environmental

Login completed by: Leslie S. Cadreau		Date R	eceived: 9/20/2022
Reviewed by:		Rece	eived by: Irs
Reviewed Date:		Carrie	er 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:	19.2°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.

Contact and Corrective Action Comments:

None

HALL	ENVIRONMENTAL	ANALYSIS	LABORATORY	
	r,	1		

0F: 1

1120 South 27th Street Account # Account # Billings, MT 59107 Billings, MT 59107 BOTTLE COLLECTION IN COLLECTION
CLIENT SAMPLE ID TYPE MATRIX DATE A ANALYTICAL COMMENTS

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished By: Ceee	Date 9/19/2022	Time 9:47 AM	Received By	Date		Time	REPORT TRANSMITTAL DESIRED
Relinquished By-	Date	Time.	Received By,	Date		Time	
Relinquished By:	Date:	Time:	Received W	Po Po	That a	Silo and	FOK LAB USE ONLY
TAT:	Standard	RUSH	Next BD	The BD	10 DEPE		
							Commestix

	RONMENT	12:49:45 <i>PM</i> AL	Hall Environmenta Alı TEL: 505-345-397 Website: www.h	490 buquerq 5 FAX:)1 Hawkins 1ue, NM 87 505-345-4	NE 109 Sa 107	mple Log-In C	Page 33 Check List
Client Name:	Harvest		Work Order Numbe	r: 220	9890		RcptNo	: 1
Received By:	Juan Roja	IS	9/17/2022 7:45:00 AM	Л		(Juan Eng)	2	
Completed By: Reviewed By:	Cheyenne 9-19		9/19/2022 9:42:20 AN	Л		Cherl		
Chain of Cus	stody							
1. Is Chain of C	Custody comp	lete?		Yes	\checkmark	No 🗌	Not Present	
2. How was the	e sample deliv	vered?		<u>Cou</u>	rier			
Log In 3. Was an atter	mpt made to o	cool the samples?		Yes		No 🗌	NA 🔽	
4. Were all sam	ples received	at a temperature	of >0° C to 6.0°C	Yes		No 🗌	NA 🔽	
5. Sample(s) in	proper conta	iner(s)?		Yes	\checkmark	No 🗌		
6. Sufficient san	nple volume f	or indicated test(s)	?	Yes	~	No 🗌		
7. Are samples	(except VOA	and ONG) properly	y preserved?	Yes	\checkmark	No 🗌		
8. Was preserva	ative added to	bottles?		Yes		No 🗹	NA 🗌	
9. Received at le	east 1 vial wit	h headspace <1/4	for AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any sa	mple containe	ers received broke	n?	Yes		No 🔽	# of preserved	
11.Does paperw (Note discrep		ttle labels? ain of custody)		Yes	\checkmark	No 🗌	bottles checked for pH: (<2 or	>12 unless noted)
		tified on Chain of (Custody?	Yes	\checkmark	No 🗌	Adjusted?	
13. Is it clear what	at analyses we	ere requested?		Yes	\checkmark	No 🗌		
14. Were all hold (If no, notify c	ing times able	e to be met?		Yes	\checkmark	No 🗌	Checked by:	malia/22
Special Hand	ling (if app	olicable)						
15. Was client no	otified of all d	iscrepancies with t	his order?	Yes		No 🗌	NA 🗹	
Person	Notified:		Date:	a dalah sarah			-	
By Wh	om:	[Via:	eMa	ail 🗌 Ph	none 🗌 Fax	🛛 🗌 In Person	
Regard Client I	ling: nstructions:							
16. Additional re	emarks:							
17. <u>Cooler Info</u> Cooler No	rmation	Condition Se	al Intact Seal No	Seal D	ata	Signed By		
1	NA	Good Yes		Juan D		orgineu by		

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Turn-Around T	- K Standard	Project Name:	Trunk	Project #:		Project Manag	Danny Burns	Sampler: On Ice:	# of Coolers:	Cooler Temp(Including CF):	Container Type and #	2 tellar								Received by:	NUCH	Received by:	contracted to other
Chain-of-Custody Record	252 FOUR COINERS	No.				email or Fax#: OHoyes@harvesthidstream.com	□ Level 4 (Full Validation)	□ Az Compliance □ Other			Matrix Sample Name	Air Influent 9-15-22								Relinquished by:	Ever wood	Relinquished by:	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
Shain-c	Harvest	DOKLEN	Mailing Address:		#:@	or Fax#: 01	QA/QC Package:	:uo	() ()		Time	13000									5	Time: Re 84b	lf necessary, sa
U	Client:		Mailing		Phone #:	email c	QA/QC Packa	Accreditati			Date	9-15								Date:	21-10	Oate: 9/ 1/v//22	<u>,</u>

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

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CONDITIONS

Action 154975

CONDITIONS Operator: OGRID: Harvest Four Corners, LLC 373888 1755 Arroyo Dr Action Number: Bloomfield, NM 87413 154975 Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created	Condition	Condition
By		Date
nvelez	Accepted for the record. Please see App ID 129947 for most updated status.	5/5/2023