



ENSOLUM

January 23, 2023

New Mexico Oil Conservation Division – District III New Mexico Energy, Mineral, and Natural Resources Department 1000 Rio Brazos Road Aztec, New Mexico 87410

Subject: 2022 Fourth Quarter – Solar SVE System Update Trunk L Tank Battery Harvest Four Corners, LLC Incident Number NVF1900731813 Remediation Permit Number 3RP-13665 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 Fourth Quarter – Solar SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the Trunk L Tank Battery (Site), located in Unit A of Section 28, Township 28 North, Range 05 West, in Rio Arriba County, New Mexico (Figure 1).

BACKGROUND

The solar SVE system was installed on September 18, 2019, to remediate subsurface impacts following a release on December 14, 2018. Excessive liquids were released onto the Site during a pigging event. Additionally, the volume of fluid in the slug catcher was elevated due to a stuck float valve, causing a release of approximately 22 barrels (bbls) into the lined secondary containment. Harvest reported the release to the New Mexico Oil Conservation Division (NMOCD) on a release Notification and Corrective Action Form C-141 on December 28, 2018, and the event was assigned Incident Number NVF1900731813. 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.

SOLAR SVE SYSTEM OPERATION AND MONITORING

The solar SVE system consists of three shallow wells (SVE01, SVE03, and SVE05) with depths ranging from 15 feet below ground surface (bgs) to 20 feet bgs with ten feet of screened interval, and three deep wells (SVE02, 04 and 06) with depths ranging from 35 feet bgs to 40 feet bgs with ten feet of screened interval. The solar SVE system is comprised of a 2.75 horsepower, three-phase blower capable of extracting 105 cubic feet per minute (cfm) at 50 inches of water column (IWC) vacuum, with a maximum vacuum capability of 84 IWC. 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 water 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-

Harvest Four Corners Trunk L Tank Battery

grid locations and operates autonomously. The layout of the solar SVE system is depicted on Figure 2.

Between startup of the solar SVE system on September 18, 2019, and the site visit on December 5, 2022, there have been 1,091 days of operation, with an estimated 13,546 total hours of nominal daylight available for solar SVE system operations. A photographic log of the hours meter reading is included as Appendix A. Since installation, the system had an actual runtime of 14,108 hours, for an overall uptime of 104.2 percent (%) of the available runtime hours. Below is a table showing SVE system runtime in comparison with nominal available daylight hours per month, according to the National Oceanic and Atmospheric Administration's National Weather Service.

Time Period	Start up on September 18, 2019 to September 13, 2022	September 14, 2022, to September 30, 2022	October 1, 2022, to October 31, 2022	November 1, 2022, to November 30, 2022	December 1, 2022, to December 5, 2022
Days	1,091	17	31	30	5
Avg. Nominal Daylight Hours	11.6	12	11	10	9
Available Runtime Hours	12,656	204	341	300	45

Total Available Daylight Runtime Hours13,546Actual Runtime Hours14,108Cumulative % Runtime104.2%Quarterly Available Daylight Runtime Hours890Quarterly Runtime Hours907Quarterly % Runtime101.9%

AIR EMISSIONS MONITORING

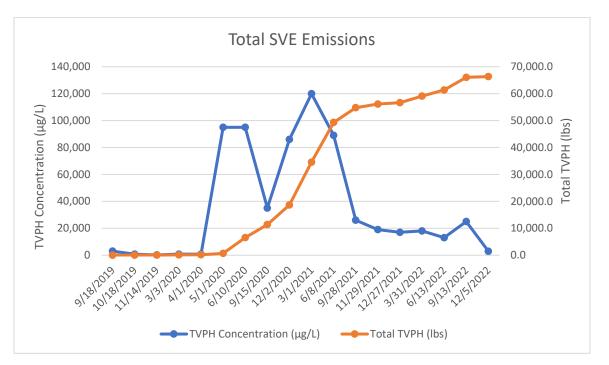
An initial air sample was collected on September 18, 2019, from the influent side of the blower on the SVE system. Subsequent air samples were collected quarterly with the most recent sample collected December 5, 2022 (Table 1). Samples were collected in 1-Liter Tedlar® bags via a high vacuum air sampler and submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, for analyses of benzene, toluene, ethylbenzene, and total xylenes (BTEX) or full suite volatile organic compounds (VOCs) using United States Environmental Protection Agency (EPA) Method 8021 or EPA Method 8260 and total volatile petroleum hydrocarbons (TVPH) using EPA Method 8015. The laboratory analytical report from the December vapor sampling event is 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 66,356 pounds (lbs) of TVPH. An increase in TVPH mass removal was observed in May 2020 as a result of system optimization, through focusing system operation on the four SVE wells that were recovering vapor with the highest photoionization detector (PID) measurements (SVE03, SVE04, SVE05, and SVE06). After the reconfiguration in May 2020, there was a peak TVPH inlet concentration in March 2021 of 120,000 micrograms per liter (μ g/L). Since March 2021, mass removal has continued to steadily decline, as seen in the graph below.

In November 2022 system operation was adjusted to focus on the three wells with PID field measurements over 1,000 parts per million (ppm) (SVE04, SVE05, and SVE06). Operation on these three wells continued through December in order to maximize mass removal of the system.







The December 2022 TVPH emissions rate remained at approximately 0.34 pounds per hour (lbs/hr) or approximately 3.57 pounds per average nominal day light hours per day that the system is expected to be operational, indicating that the SVE system is still effectively remediating the Site. The decrease in mass removal rate will continue to be monitored to evaluate system effectiveness.

PLAN FOR NEXT QUARTER OF OPERATION

During the upcoming first quarter 2023 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 first quarter and analyzed for BTEX by EPA Method 8021 and TVPH by EPA Method 8015. An updated quarterly report with sample results, runtime, and mass source removal will be submitted by April 30, 2023.

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 BTEX and TPH are below the applicable standards as detailed in the approved *Remediation Work Plan* dated May 28, 2019.

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>.



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Harvest Four Corners Trunk L Tank Battery

Sincerely,

ENSOLUM, LLC

Eric Conoll

Eric Carroll Project Geologist

Brooke Herb 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 – Photographic Log Appendix B – Laboratory Analytical Report

E N S O L U M

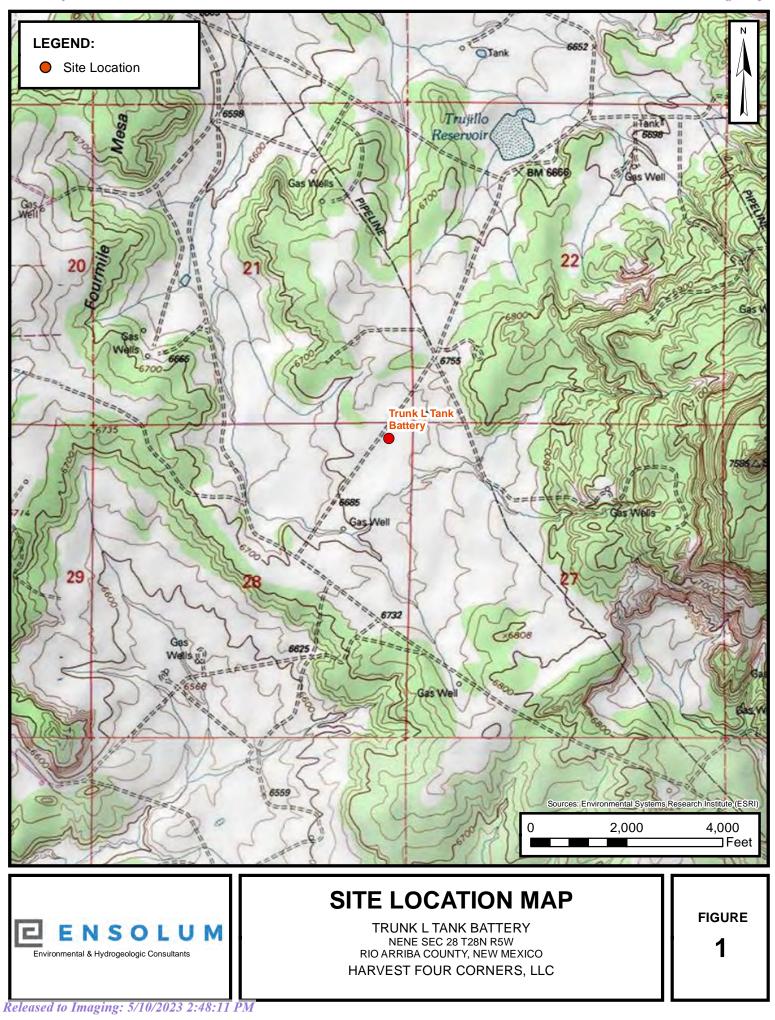


Figures

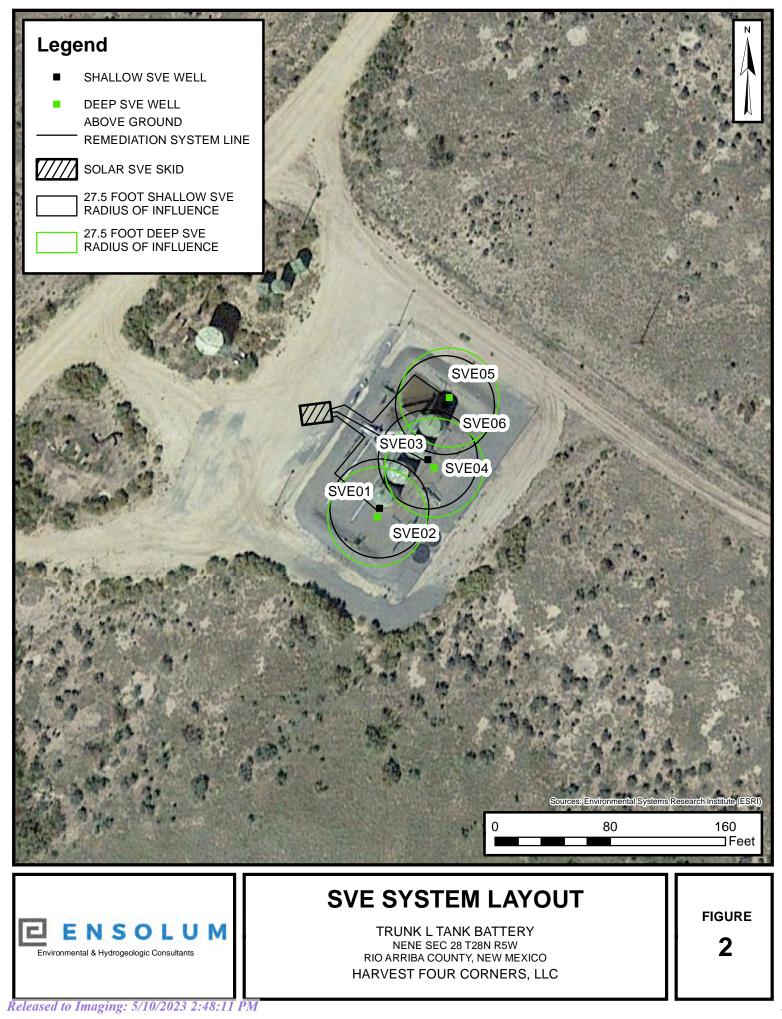
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Tables

ENSOLUM

TABLE 1 SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS Trunk L Tank Battery Harvest Four Corners, LLC Rio Arriba County, New Mexico								
Date	PID (ppm)Benzene (μg/L)Toluene (μg/L)Ethylbenzene (μg/L)Total Xylenes (μg/L)TVPH/GRO (μg/L)							
9/18/2019	946	1,000	1,500	50	550	NA		
10/18/2019	931	250	410	6.5	74	NA		
11/14/2019	578	1.8	4.3	0.19	1.7	250		
3/3/2020	868	3.9	22	1.3	13	760		
5/1/2020	913	610	1,500	58	570	95,000		
6/10/2020	1,527	640	1,600	56	530	95,000		
9/15/2020	1,077	180	840	24	230	35,000		
12/2/2020	1,320	380	1,100	23	270	86,000		
3/1/2021	1,469	440	2,100	110	1,100	120,000		
6/8/2021	1,380	300	1,200	42	380	89,000		
9/28/2021	916	150	230	<10	49	26,000		
11/29/2021	573	78	280	9.1	84	19,000		
12/27/2021	NA	120	240	<5.0	47	17,000		
3/31/2022	406	76	210	5.5	47	18,000		
6/13/2022	736	65	190	<5.0	51	13,000		
9/13/2022	1,640	62	170	<5.0	33	25,000		
12/5/2022	4,561	15	54	<5.0	13	2,900		

Notes:

NA: Not analyzed

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

GRO: gasoline range organics

TVPH: total volatile petroleum hydrocarbons

Italics denote that the laboratory method detection limit was reported

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TABLE 2 SOIL VAPOR EXTRACTION MASS REMOVAL AND EMISSIONS Trunk L Tank Battery Harvest Four Corners, LLC Rio Arriba County, New Mexico

	Flow and Laboratory Analysis					
Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	TVPH (µg/L)
9/18/2019*	1,435	1,000	1,500	50	550	3,013
10/18/2019*	931	250	410	6.5	74	744
11/14/2019	578	1.8	4.3	0.19	1.7	250
3/3/2020	868	3.9	22	1.3	13	760
4/1/2020**	838	3.7	21	1.2	12	733
5/1/2020	913	610	1,500	58	570	95,000
6/10/2020	1,527	640	1,600	56	530	95,000
9/15/2020	1,077	180	840	24	230	35,000
12/2/2020	1,320	380	1,100	23	270	86,000
3/1/2021	1,469	440	2,100	110	1,100	120,000
6/8/2021	1,380	300	1,200	42	380	89,000
9/28/2021	916	150	230	10	49	26,000
11/29/2021	573	78	280	9.1	84	19,000
12/27/2021		120	240	5.0	47	17,000
3/31/2022	406	76	210	5.5	47	18,000
6/13/2022	736	65	190	5.0	51	13,000
9/13/2022	1,640	62	170	5.0	33	25,000
12/5/2022	4,561	15	54	5.0	13	2,900
Average	1,245	243	648	23	225	35,911

			Vap	oor Extraction Summ	ary			
Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
9/18/2019	33.7	3,033	3,033	0.1262	0.1892	0.0063	0.0694	0.3801
10/18/2019	37.8	723,303	720,270	0.0353	0.0579	0.0009	0.0105	0.1051
11/14/2019	38.0	1,334,343	611,040	0.0003	0.0006	0.0000	0.0002	0.0356
3/3/2020	21.3	2,898,866	1,564,523	0.0003	0.0018	0.0001	0.0010	0.0605
4/1/2020	21.3	3,795,613	896,747	0.0003	0.0017	0.0001	0.0010	0.0583
5/1/2020	39.2	3,882,637	87,024	0.0895	0.2201	0.0085	0.0836	13.9404
6/10/2020	29.3	4,869,885	987,248	0.0703	0.1757	0.0061	0.0582	10.4304
9/15/2020	27.8	7,089,263	2,219,378	0.0187	0.0873	0.0025	0.0239	3.6384
12/2/2020	26.6	8,447,393	1,358,130	0.0379	0.1097	0.0023	0.0269	8.5730
3/1/2021	40.0	10,571,393	2,124,000	0.0659	0.3144	0.0165	0.1647	17.9683
6/8/2021	34.2	13,226,681	2,655,288	0.0384	0.1536	0.0054	0.0486	11.3941
9/28/2021	37.0	16,596,641	3,369,960	0.0208	0.0319	0.0014	0.0068	3.6011
11/29/2021	28.7	17,746,416	1,149,775	0.0084	0.0301	0.0010	0.0090	2.0434
12/27/2021	30.4	18,233,905	487,489	0.0137	0.0273	0.0006	0.0054	1.9365
3/31/2022	36.0	20,402,545	2,168,640	0.0102	0.0283	0.0007	0.0063	2.4257
6/13/2022	46.0	23,209,465	2,806,920	0.0112	0.0327	0.0009	0.0088	2.2385
9/13/2022	40.0	26,214,265	3,004,800	0.0093	0.0255	0.0007	0.0049	3.7434
12/5/2022	31.0	27,901,285	1,687,020	0.0017	0.0063	0.0006	0.0015	0.3365
			Average	0.03	0.08	0.003	0.03	4.61



TABLE 2 SOIL VAPOR EXTRACTION MASS REMOVAL AND EMISSIONS Trunk L Tank Battery Harvest Four Corners, LLC Rio Arriba County, New Mexico

			Flov	v and Laboratory An	alysis			
Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
9/18/2019	1.5	1.5	0.2	0.3	0.0	0.1	0.6	0.000
10/18/2019	319.5	318	11.2	18.4	0.3	3.3	33.4	0.017
11/14/2019	587.5	268	0.1	0.2	0.0	0.1	9.5	0.005
3/3/2020	1,814	1,226.5	0.4	2.1	0.1	1.3	74.2	0.037
4/1/2020	2,517	703	0.2	1.2	0.1	0.7	41.0	0.021
5/1/2020	2,554	37	3.3	8.1	0.3	3.1	515.8	0.258
6/10/2020	3,115	561	39.4	98.6	3.4	32.6	5,851	2.926
9/15/2020	4,447	1,332	24.9	116.3	3.3	31.8	4,846	2.423
12/2/2020	5,297	850	32.2	93.2	1.9	22.9	7,287	3.644
3/1/2021	6,182	885	58.3	278.3	14.6	145.8	15,902	7.951
6/8/2021	7,476	1,294	49.7	198.8	7.0	63.0	14,744	7.372
9/28/2021	8,994	1,518	31.5	48.4	2.1	10.3	5,467	2.733
11/29/2021	9,661	667	5.6	20.1	0.7	6.0	1,363	0.681
12/27/2021	9,928	267	3.6	7.3	0.2	1.4	517.0	0.259
3/31/2022	10,932	1,004	10.3	28.4	0.7	6.4	2,435	1.218
6/13/2022	11,949	1,017	11.4	33.3	0.9	8.9	2,277	1.138
9/13/2022	13,201	1,252	11.6	31.9	0.9	6.2	4,687	2.343
12/5/2022	14,108	907	1.6	5.7	0.5	1.4	305	0.153
	Total Mas	ss Recovery to Date	295.6	990.5	37.1	345.2	66,355.8	33.2

Notes:

* - TVPH data extrapolated from PID values

** - Analytical data extrapolated from PID values

BTEX - benzene, toluene, ethylbenzene, total xylenes

cf - cubic feet

cfm - cubic feet per minute

lbs - pounds

lb/hr - pounds per hour

µg/L - microgram per liter

PID - photoionization detector

ppm - parts per million

TVPH - total volatile petroleum hydrocarbons

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)

Italics denote that the laboratory method detection limit was used for calculations for a non-detected result



APPENDIX A

Photographic Log

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Photographic Log Trunk L Tank Battery Harvest Four Corners, LLC Rio Arriba County, New Mexico

Photo #1 SVE Hours Reading 12-5-2022





APPENDIX B

Laboratory Analytical Report



December 20, 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 L

OrderNo.: 2212355

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/6/2022 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, Inc.

Analytical Report Lab Order 2212355

Date	Reported:	12/20/2022

CLIENT: Harvest		Clien	t Sample I	D: 12-	5-22 Influent				
Project: Trunk L	Collection Date: 12/5/2022 1:00:00 PM								
Lab ID: 2212355-001	Matrix: AIR	Re	eceived Dat	e: 12/	6/2022 2:05:00 PM				
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch			
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst:	ССМ			
Gasoline Range Organics (GRO)	2900	250	µg/L	50	12/14/2022 4:40:00 PM	R93258			
Surr: BFB	90.8	70-130	%Rec	50	12/14/2022 4:40:00 PM	R93255			
EPA METHOD 8260B: VOLATILES					Analyst:	ССМ			
Benzene	15	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Toluene	54	5.0	μg/L	50	12/14/2022 4:40:00 PM	R93255			
Ethylbenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Methyl tert-butyl ether (MTBE)	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,2,4-Trimethylbenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,3,5-Trimethylbenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,2-Dichloroethane (EDC)	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Naphthalene	ND	10	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1-Methylnaphthalene	ND	20	µg/L	50	12/14/2022 4:40:00 PM	R93255			
2-Methylnaphthalene	ND	20	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Acetone	ND	50	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Bromobenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Bromodichloromethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Bromoform	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Bromomethane	ND	10	µg/L	50	12/14/2022 4:40:00 PM	R93255			
2-Butanone	ND	50	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Carbon disulfide	ND	50	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Carbon tetrachloride	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Chlorobenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Chloroethane	ND	10	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Chloroform	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Chloromethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
2-Chlorotoluene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
4-Chlorotoluene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
cis-1,2-DCE	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
cis-1,3-Dichloropropene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,2-Dibromo-3-chloropropane	ND	10	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Dibromochloromethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Dibromomethane	ND	10	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,2-Dichlorobenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,3-Dichlorobenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,4-Dichlorobenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
Dichlorodifluoromethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,1-Dichloroethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			
1,1-Dichloroethene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255			

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

JAnalyte detected below quantitation limitsPSample pH Not In Range

RL Reporting Limit

Page 1 of 2

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CLIENT: Harvest

Trunk L

2212355-001

Project:

Lab ID:

Analytical Report

Matrix: AIR

Lab Order 2212355

Date Reported: 12/20/2022

Client Sample ID: 12-5-22 Influent Collection Date: 12/5/2022 1:00:00 PM Received Date: 12/6/2022 2:05:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	ССМ
1,2-Dichloropropane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255
1,3-Dichloropropane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255
2,2-Dichloropropane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255
1,1-Dichloropropene	ND	5.0	μg/L	50	12/14/2022 4:40:00 PM	R93255
Hexachlorobutadiene	ND	5.0	μg/L	50	12/14/2022 4:40:00 PM	R93255
2-Hexanone	ND	50	μg/L	50	12/14/2022 4:40:00 PM	R93255
Isopropylbenzene	ND	5.0	μg/L	50	12/14/2022 4:40:00 PM	R93255
4-Isopropyltoluene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R93255
4-Methyl-2-pentanone	ND	50	µg/L	50	12/14/2022 4:40:00 PM	R93255
Methylene chloride	ND	15	µg/L	50	12/14/2022 4:40:00 PM	R9325
n-Butylbenzene	ND	15	µg/L	50	12/14/2022 4:40:00 PM	R93255
n-Propylbenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
sec-Butylbenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
Styrene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
tert-Butylbenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
Tetrachloroethene (PCE)	ND	5.0	μg/L	50	12/14/2022 4:40:00 PM	R9325
trans-1,2-DCE	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
trans-1,3-Dichloropropene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
1,2,3-Trichlorobenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
1,2,4-Trichlorobenzene	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
1,1,1-Trichloroethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
1,1,2-Trichloroethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
Trichloroethene (TCE)	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
Trichlorofluoromethane	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
1,2,3-Trichloropropane	ND	10	μg/L	50	12/14/2022 4:40:00 PM	R93258
Vinyl chloride	ND	5.0	µg/L	50	12/14/2022 4:40:00 PM	R9325
Xylenes, Total	13	7.5	µg/L	50	12/14/2022 4:40:00 PM	R9325
Surr: Dibromofluoromethane	81.3	70-130	%Rec	50	12/14/2022 4:40:00 PM	R9325
Surr: 1,2-Dichloroethane-d4	70.1	70-130	%Rec	50	12/14/2022 4:40:00 PM	R9325
Surr: Toluene-d8	100	70-130	%Rec	50	12/14/2022 4:40:00 PM	R9325
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	50	12/14/2022 4:40:00 PM	R9325

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
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

Page 2 of 2

Qualifiers:



ANALYTICAL SUMMARY REPORT

December 14, 2022

Hall Environmer 4901 Hawkins S Albuquerque, N	t NE Ste D			
Work Order: Project Name:	B22120688 C Not Indicated	Quote ID: B15626		
Energy Laborate	ories Inc Billings MT receive	ed the following 1 sample for Ha	all Environmen	tal on 12/8/2022 for analysis.
Lab ID	Client Sample ID	Collect Date Receive Date	e Matrix	Test
B22120688-001	2212355-001B, 12-5-22 Influent	12/05/22 13:00 12/08/22	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: B22120688-001 Client Sample ID: 2212355-001B, 12-5-22 Influent

Report Date: 12/14/22 Collection Date: 12/05/22 13:00 DateReceived: 12/08/22 Matrix: Air

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	16.38	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Nitrogen	79.33	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Carbon Dioxide	4.29	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-95	12/09/22 10:31 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	12/09/22 10:31 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	12/09/22 10:31 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	12/09/22 10:31 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	12/09/22 10:31 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	12/09/22 10:31 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/09/22 10:31 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-95	12/09/22 10:31 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/09/22 10:31 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-95	12/09/22 10:31 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-95	12/09/22 10:31 / jrj
Pseudo-critical Pressure, psia	556			1		GPA 2261-95	12/09/22 10:31 / jrj
Pseudo-critical Temperature, deg R	250			1		GPA 2261-95	12/09/22 10:31 / jrj
Specific Gravity @ 60/60F	1.01			0.001		D3588-81	12/09/22 10:31 / jrj
Air, % - The analysis was not corrected for air.	74.84			0.01		GPA 2261-95	12/09/22 10:31 / 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

12/09/22 10:31 / jrj



Billings, MT 800.735.4489 • Casper, WY 888.235.0513 of 25 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B22120688

|--|

Report Date: 12/14/22

Analyte Method:	GPA 2261-95	Count Result	Units	RL	%REC L	ow Limit	High Limit			0
Method:	GPA 2261-95				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			RPD	RPDLimit	Qual
									Batch:	R392519
_ab ID: I	B22120688-001ADUP	12 Sample Dupl	licate		R	Run: GCNG	A-B_221209A		12/09/	/22 11:02
Oxygen		16.3	Mol %	0.01				0.6	20	
Nitrogen		79.3	Mol %	0.01				0	20	
Carbon Diox	kide	4.37	Mol %	0.01				1.8	20	
Hydrogen Su	ulfide	<0.01	Mol %	0.01					20	
Methane		<0.01	Mol %	0.01					20	
Ethane		<0.01	Mol %	0.01					20	
Propane		<0.01	Mol %	0.01					20	
Isobutane		<0.01	Mol %	0.01					20	
n-Butane		<0.01	Mol %	0.01					20	
Isopentane		<0.01	Mol %	0.01					20	
n-Pentane		<0.01	Mol %	0.01					20	
Hexanes plu	IS	<0.01	Mol %	0.01					20	
_ab ID: I	LCS120922	11 Laboratory C	ontrol Sample	9	R	Run: GCNG	A-B_221209A		12/09/	/22 12:27
Oxygen		0.60	Mol %	0.01	120	70	130			
Nitrogen		6.09	Mol %	0.01	101	70	130			
Carbon Diox	de	1.00	Mol %	0.01	101	70	130			
Methane		74.4	Mol %	0.01	100	70	130			
Ethane		6.05	Mol %	0.01	101	70	130			
Propane		5.01	Mol %	0.01	101	70	130			
Isobutane		2.00	Mol %	0.01	100	70	130			
n-Butane		2.00	Mol %	0.01	100	70	130			
Isopentane		1.02	Mol %	0.01	102	70	130			
n-Pentane		1.02	Mol %	0.01	102	70	130			
Hexanes plu	IS	0.82	Mol %	0.01	103	70	130			

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

Work Order Receipt Checklist

Hall Environmental

B22120	0688
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Login completed by:	Leslie S. Cadreau		Date R	eceived: 12/8/2022
Reviewed by:	tedwards		Rec	eived by: lel
Reviewed Date:	12/14/2022		Carri	er name: UPS
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 CI, Su	onsidered field parameters	Yes 🗹	No 🗌	
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temp	erature:	11.0°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.

Contact and Corrective Action Comments:

None

HALL ENVIRONMENTAL ANALYSIS LABORATORY	MENTAL S DRY	CHAIN OF	CUSTC	DY R	CHAIN OF CUSTODY RECORD PAGE	: 1 OF: 1	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com
SUB CONTRATOR: Energy Labs -Billings	y Labs -Billings COMPANY:	Energy Laboratories	oratories		PHONE	(406) 869-6253 FAX	(406) 252-6069
ADDRESS: 1120 S	1120 South 27th Street				ACCOUNT #:	EMAIL:	
CITY, STATE, ZIP: Billings, MT 59107	s, MT 59107						
ITEM SAMPLE	CLIENT SAMPLE ID	BO	BOTTLE TYPE M	MATRIX	COLLECTION	#CONTAINERS	ANALYTICAL COMMENTS
1 2212355-001B	2212355-001B 12-5-22 Influent	TEDLAR	AR Air		12/5/2022 1:00:00 PM	1 Natural Gases CO, O2, CO2	1322120688

ONLINE Attempt to Cool ? REPORT TRANSMITTAL DESIRED: EMAIL EMAIL FOR LAB USE ONLY 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. T FAX ç HARDCOPY (extra cost) Temp of samples Comments: Scing ce/s/2 mayo Time: Time: 3rd BD Date: Date: 2nd BD Received By. Kyrolin Next BD Received By: Received By. RUSH 12:21 PM Time: Time; Time: 12/7/2022 Date: Standard Date: Date: SPECIAL INSTRUCTIONS / COMMENTS: TAT: r Relinquished By: Relinquished By: Relinquished By:

Received by OCD: 1/30/2023 11:39:07 AM

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	ental Analysis Labord 4901 Hawkin Albuquerque, NM 8 -3975 FAX: 505-345- ww.hallenvironmental	ns NE 7109 Sam 4107	nple Log-In C	heck List
Client Name: Harvest	Work Order Nur	nber: 2212355		RcptNo:	1
Received By: Juan Rojas	12/6/2022 2:05:00) PM	Hower J.		
Completed By: Isaiah Ortiz	12/7/2022 12:12:3	32 PM	INO	×	
Reviewed By: JN12/7/22					
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 🗌		
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌		
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) proper	ly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4	I" for AQ VOA?	Yes 🗌	No 🗌	NA 🔽	
10. Were any sample containers received broke	en?	Yes	No 🗹 🗍	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗆	bottles checked for pH:	>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 🗌		ALLAN
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No L	Checked by:	1/2-1-0
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:	· · · · · · · · · · · · · · · · · · ·	Phone 🗌 Fax	In Person	
16. Additional remarks:					
17. Cooler Information					

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	K Standard D Rush	Halves & Four Corners & Standard 🗆 Rush ANAL	Halvest Four CornertsK StandardRushHall $\overline{denn^{-}}$ FerProject Name:www.hall $\overline{denn^{-}}$ FerNewTrun \mathcal{K} LAddress: \mathcal{T} Yun \mathcal{K} L4901 Hawkins NE -	Halvest Four CornersK StandardRush $\overline{Cenn^{-}}$ fer De.Project Name:www.hall $\overline{denn^{-}}$ fer De. $TVun \mathcal{K} L$ 4901 Hawkins NE -Address:Project #:Tel. 505-345-3975	Halves t Four CornersK StandardRushAnd $\overline{Cenn^{-}}Fer De_{-} $ Project Name:www.hall \overline{ddress} : $TVun \mathcal{K} L$ 4901 Hawkins NE -#:Project #:Tel. 505-345-3975	Ha/Ve5 t Four Corner 5 K Standard Rush Jenni fe / Ve5 t Four Corner 5 Project Name: www.hall Jenni fe / Project Name: 4901 Hawkins NE Address: TYUN K L #: Tolect #: #: Project Manager:	Halvest Four Cornerts K Standard Rush Tennifeer Deal Project Name: www.hall Address: Project Name: 4901 Hawkins NE Address: Trun K L 1901 Hawkins NE Address: Project #: Trun K L Address: Donn K L 1001 Hawkins NE Address: Project #: 1001 Hawkins NE Address: Donn K L 1001 Hawkins NE	Halvest Four Corners K Standard Rush Total R Standard Rush Total Project Name: www.hall Address: Total 4901 Hawkins NE Address: Project Manager: 11.0000 (8021) #: Project #: Total (8021) #: Project #: Total (8021) #: Project #: Tel. 505-345-3975 #: Project #: Total (7000) #: Donny Burns - Ensolutin 827051MS #: Donny Burns - Ensolutin 1062 #: Donny Burns - Ensolutin 1082	Harvest Four Corners Kestandard Rush Jenni-fer De Project Name: www.hall Jenni-fer De Project Name: www.hall Jenni-fer De Project Name: www.hall Address: TYUN K 4901 Hawkins NE ##: Project #: TYUN K #: Donny K Project #: #: Donny K Project #:	Halvest Four Corners K Standard Rush Jennifed Rush Project Name: www.hall Jennifed New Corners Jennifed New Corners Halvest New Corners Jennifed New Corners Trun K Halvest New Corners Jennifed New Corners Project Manager: Halvest New Corners #: Donny Burns Corners Tel. 505-345-3975 #: Donny Burns Corners Halvest Standard If faition: Donny Burns Corners Tel. 505-345-3975 Matrix Jennifed New Standard New Standard A 500 Mny Burns Corners Donny Burns Corners A 500 Mny Burns Corners New Standard A 500 Mny Burns Corners New Standard A 500 Mny Burns Corners New Standard A 500 Mny Burns Corners New Standard	Halves & Four Corner's K Standard Rush Halves & Four Corner's R Standard Rush Jerni-fer Project Name: www.hall Jerni-fer Periodect Name: www.hall Jerni-fer Project Name: 14901 Hawkins NE Address: Project H: Project Name: Address: Project With L 14901 Hawkins NE Address: Project H: Project H: Package: Down Y Burls - Ensolutin 155-345-3975 Method 504.1) Down Y Burls - Ensolutin 155-345-3975 Method 504.1) Down Y Burls - Ensolutin 161 Address: Down Y Burls - Ensolutin 161 Method 504.1) Down Y Burls - Ensolutin 161 Method Down Y Burls - Ensolutin 161 Address: Down Y Burls - Ensolutin 10	Halves c Four Corner 5 K standard Rush Jernifer De Project Name: Project Name: Www.hall Jernifer De Project Name: Project Name: Project Name: Address: Trun K Project Name: Project Name: Address: Project Manager: Project Manager: Project Manager: Package: Donny Burls Ene (Method 504.1) Project Manager: Package: Donny Burls Conny Burls Ene (Method 504.1) Package: Donny Burls Conny Burls Conny Burls Package: Donny Burls Conny Burls Conny Burls Matrix Sampler: E. 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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

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CONDITIONS

Action 180659

CONDITIONS

Operator:	OGRID:
Harvest Four Corners, LLC	373888
1755 Arroyo Dr	Action Number:
Bloomfield, NM 87413	180659
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

	Created	Condition	Condition
	By		Date
ſ	nvelez	Accepted for the record. Please see App ID 211874 for most updated status.	5/10/2023