ENSOLUM

October 15, 2024

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

Subject: **2024 Third 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 *2024 Third 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 soil 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 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 to 20 feet below ground surface (bgs) with 10-foot screened intervals, and three deep wells (SVE02, SVE04, and SVE06) with depths ranging from 35 feet to 40 feet bgs with 10-foot screened intervals. 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-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 last quarterly Site visit on September 23, 2024, there have been 1,832 days of operation, with an estimated 21,419 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 has had an actual runtime of 22,112 hours, for an overall uptime of 103.2 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 Renewable Energy Laboratory (NREL).

SVE System Runtime

Time Period	Start up on September 18, 2019 to June 13, 2024	June 14, 2024 to June 30, 2024	July 1, 2024 to July 31, 2024	August 1, 2024 to August 31, 2024	September 1, 2024 to September 23, 2024
Days	1,730	17	31	31	23
Avg. Nominal Daylight Hours	11.6	14	14	13	12
Available Runtime Hours	20,068	238	434	403	276

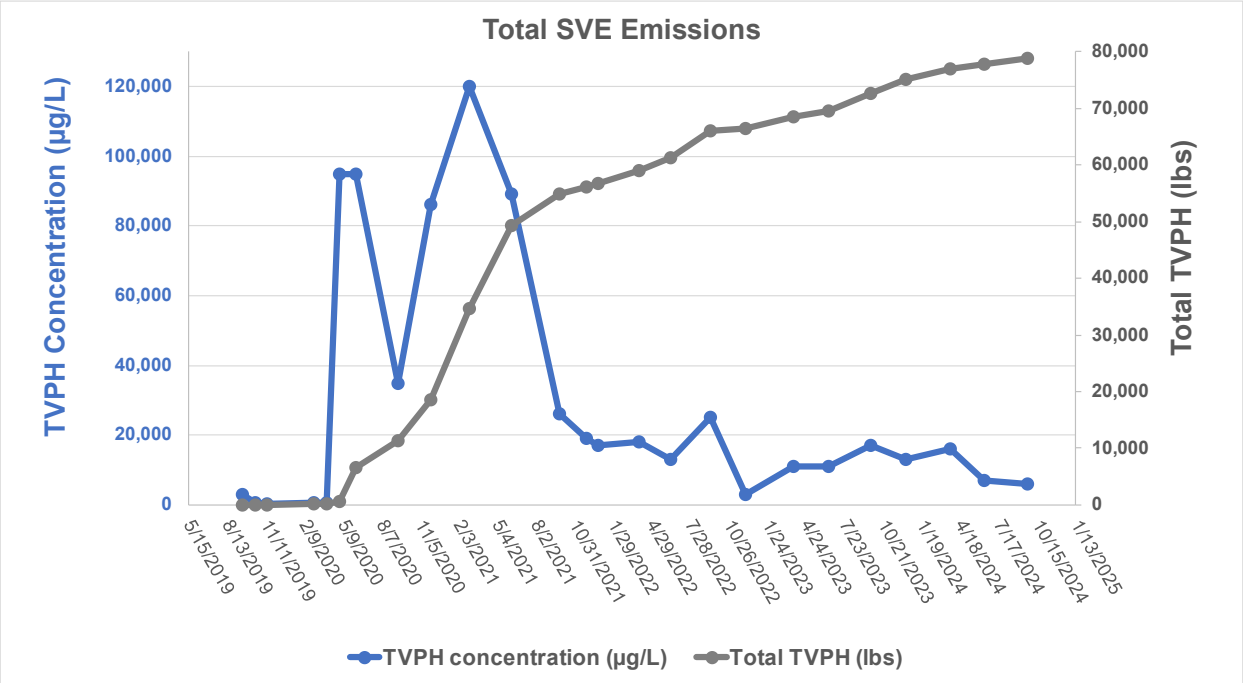
Total Available Daylight Runtime Hours	**21,419**
Actual Runtime Hours	**22,112**
Cumulative % Runtime	**103.2%**
Quarterly Available Daylight Runtime Hours	**1,351**
Quarterly Runtime Hours	**1,385**
Quarterly % Runtime	**102.5%**

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 September 23, 2024 (Table 1). Samples were collected in 1-Liter Tedlar® bags via a high vacuum air sampler and submitted to Eurofins (formerly Hall Environmental Analysis Laboratory) in Albuquerque, New Mexico, for analyses of benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B and total volatile petroleum hydrocarbons (TVPH) following EPA Method 8015D. The laboratory analytical report from the September 2024 sampling event is included as Appendix B.

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 78,825 pounds (lbs) (or 39.41 tons) 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 (µg/L). Concentrations have since decreased and have generally ranged between 10,000 to 20,000 µg/L since 2022. During Q2 and Q3 of 2024, concentrations have decreased to 6,900 µg/L and 6,000 µg/L, respectively. Total mass removal has continued at a steady rate, as seen in the graph below, due to system repairs and optimization.

Since July 2024, operation was adjusted to focus on all SVE wells (SVE 01, SVE02, SVE03, SVE04, and SVE06) except SVE05, due to decreased headspace PID readings.



Notes:

TVPH – total volatile petroleum hydrocarbons
µg/L – micrograms per liter
lbs – pounds

The September 2024 TVPH emissions rate remained consistent with the second quarter 2024 rate, with a rate of approximately 0.7568 pounds per hour (lbs/hr) or approximately 10.03 pounds per day, based on the average nominal daylight hours available, indicating the SVE system is still effectively remediating the Site. The mass removal rate will continue to be monitored to evaluate system effectiveness.

PLAN FOR NEXT QUARTER OF OPERATION

During the upcoming fourth quarter 2024 operations, Ensolum will continue to visit the Site monthly to ensure a minimum of 90% runtime efficiency continues and any maintenance issues are addressed in a timely manner. An air sample will be collected in December 2024 and analyzed for BTEX and TVPH. An updated quarterly report with sample results, runtime, and mass source removal will be submitted by January 15, 2025.

Quarterly air sampling and reporting will continue until the mass removal rate declines to an asymptotic level and indicates 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 Table I Closure Criteria as detailed in the approved *Remediation Work Plan,* dated May 28, 2019.

If the final delineation samples indicate hydrocarbon impacts have been remediated with chemicals of concern concentrations in compliance with the Table I Closure Criteria, Ensolum will present the confirmation laboratory analysis data in a report and request closure of the release. Should the results indicate analytes in the soil exceed the Table I Closure Criteria, Ensolum will

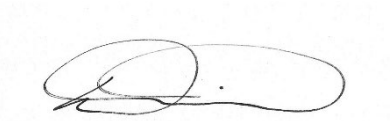
either make operational adjustments and restart the SVE system based on the results of the investigation or develop an alternative remedial approach to reach Site closure.

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 Brooke Herb at (970) 403-6824 or via email at bherb@ensolum.com or Jennifer Deal at (505) 324-5128 or at jdeal@harvestmidstream.com.

Sincerely,

ENSOLUM, LLC

Reece Hanson
Project Geologist



Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

APPENDICES

Figure 1 – Site Location Map
Figure 2 – SVE System Layout
Table 1 – SVE System Emissions Analytical Results
Table 2 – SVE Mass Removal & Emissions Summary
Appendix A – Photographic Log
Appendix B – Laboratory Analytical Report

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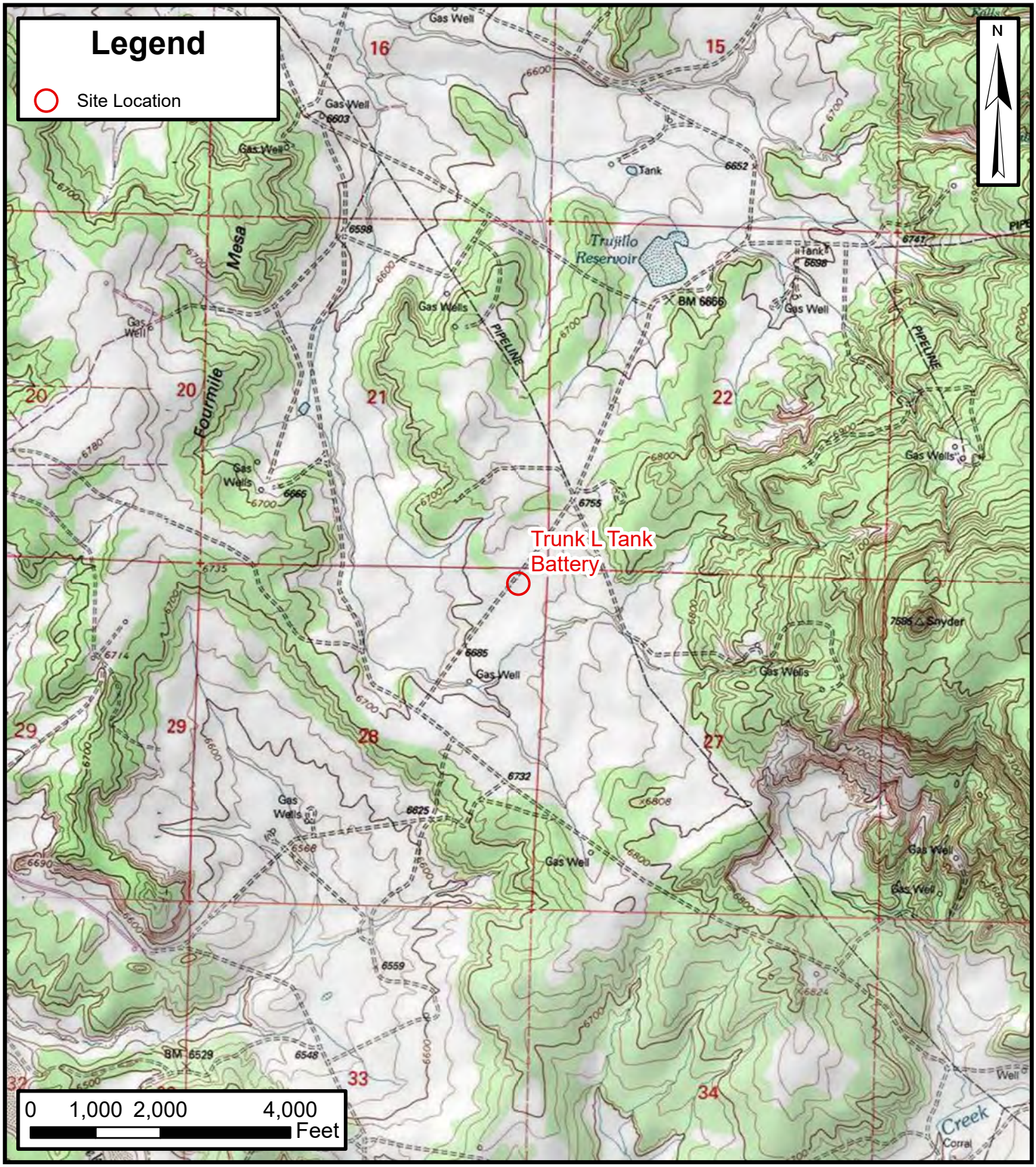
FIGURES



Site Location Map

Trunk L Tank Battery
Harvest Four Corners, LLC
36.638705, -107.357047
Rio Arriba County, New Mexico

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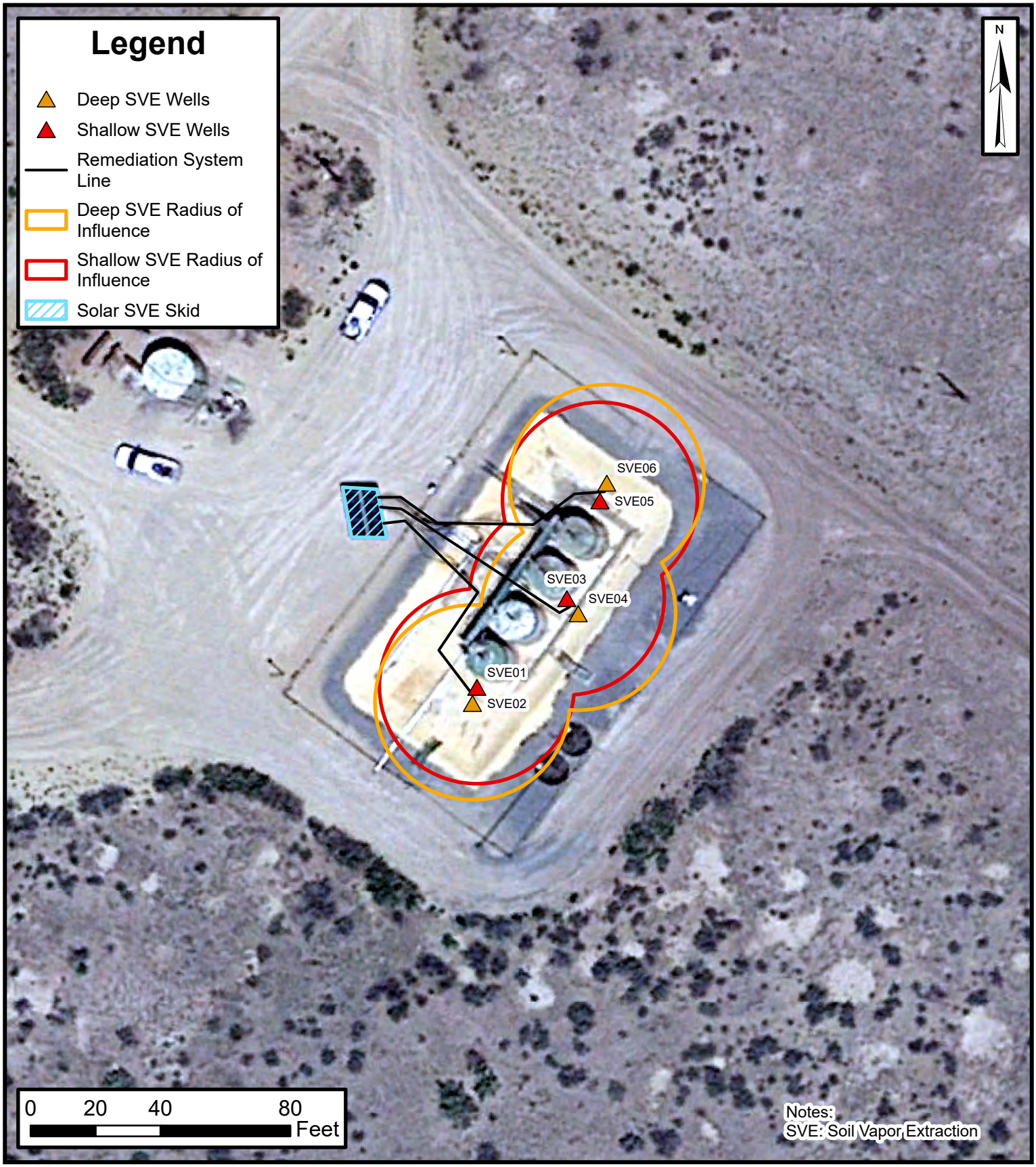
Environmental, Engineering and Hydrogeologic Consultants

FIGURE
1

Sources: Environmental Systems Research Institute (ESRI), National Geographic Society, i-cubed



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SVE System Layout

Trunk L Tank Battery
Harvest Four Corners, LLC
36.638705, -107.357047
Rio Arriba County, New Mexico

FIGURE
2

Sources: Environmental Systems Research Institute (ESRI), Google Earth

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TABLES

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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
3/28/2023	1,296	27	89	5.8	57	11,000
6/16/2023	1,263	22	63	*<5.0*	39	11,000
9/22/2023	1,238	47	160	5.1	110	17,000
12/15/2023	1,387	36	100	7.1	61	13,000
3/28/2024	1,085	40	120	7.8	86	16,000
6/13/2024	502	18	29	1.7	9	6,900
9/23/2024	365	15	36	3.0	29	6,000

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
3/28/2023	1,296	27	89	5.8	57	11,000
6/16/2023	1,263	22	63	*5.0*	39	11,000
9/22/2023	1,238	47	160	5.1	110	17,000
12/15/2023	1,387	36	100	7.1	61	13,000
3/28/2024	1,085	40	120	7.8	86	16,000
6/13/2024	502	18	29	1.7	9	6,900
9/23/2024	365	15	36	3.0	29	6,000
Average	1,179	183	491	18	178	29,092

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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

Vapor Extraction Summary

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
3/28/2023	42.0	30,864,805	2,963,520	0.0042	0.0140	0.0009	0.0090	1.7294
6/16/2023	27.0	32,607,925	1,743,120	0.0022	0.0064	*0.0005*	0.0039	1.1118
9/22/2023	35.0	35,415,625	2,807,700	0.0062	0.0210	0.0007	0.0144	2.2273
12/15/2023	56.0	38,429,545	3,013,920	0.0075	0.0210	0.0015	0.0128	2.7252
3/28/2024	30.0	40,380,745	1,951,200	0.0045	0.0135	0.0009	0.0097	1.7968
6/13/2024	30.3	42,287,827	1,907,082	0.0020	0.0033	0.0002	0.0010	0.7826
9/23/2024	29.3	44,722,657	2,434,830	0.0020	0.0032	0.0002	0.0010	0.7568
			Average	0.02	0.06	0.002	0.02	3.76

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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	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
3/28/2023	15,284	1,176	5.0	16.5	1.1	10.5	2,034	1.017
6/16/2023	16,360	1,076	2.4	6.9	0.5	4.2	1,196	0.598
9/22/2023	17,697	1,337	8.2	28.0	0.9	19.3	2,978	1.489
12/15/2023	18,594	897	6.8	18.8	1.3	11.5	2,444	1.222
3/28/2024	19,678	1,084	4.9	14.6	0.9	10.5	1,948	0.974
6/13/2024	20,727	1,049	2.1	3.5	0.2	1.1	821	0.410
9/23/2024	22,112	1,385	2.7	4.4	0.3	1.4	1,048	0.524
Total Mass Recovery to Date			327.7	1,083.1	42.3	403.7	78,825.2	39.41

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/m^3) * *Air Flow Rates (cfm) * (1 m^3/35.3147 ft^3) * (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

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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 7/18/2024

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Environmental, Engineering and Hydrogeologic Consultants

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

Photo #1
SVE Hours Reading 8/22/2024

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Environmental, Engineering and Hydrogeologic Consultants

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

Photo #1
SVE Control Panel 9/23/2024

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APPENDIX B

Laboratory Analytical Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Monica Smith
Harvest
1755 Arroyo Dr.
Bloomfield, New Mexico 87413

Generated 10/10/2024 9:44:40 AM

JOB DESCRIPTION

Trunk L

JOB NUMBER

885-12387-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
10/10/2024 9:44:40 AM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Harvest
Project/Site: Trunk L

Laboratory Job ID: 885-12387-1

Table of Contents

Definitions/Glossary

Client: Harvest Job ID: 885-12387-1
Project/Site: Trunk L

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Harvest
Project: Trunk L

Job ID: 885-12387-1

Job ID: 885-12387-1 Eurofins Albuquerque

Job Narrative
885-12387-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 9/24/2024 7:32 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.1°C.

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

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

Client Sample Results

Client: Harvest
Project/Site: Trunk L

Job ID: 885-12387-1

Client Sample ID: Influent 092324

Lab Sample ID: 885-12387-1

Date Collected: 09/23/24 13:05
Matrix: Air
Date Received: 09/24/24 07:32
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	6000		50		ug/L			10/01/24 17:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*196*		*15 - 412*		*10/01/24 17:22*	*10*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	15		1.0		ug/L			10/01/24 17:22	10
Ethylbenzene	3.0		1.0		ug/L			10/01/24 17:22	10
Toluene	36		1.0		ug/L			10/01/24 17:22	10
Xylenes, Total	29		2.0		ug/L			10/01/24 17:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/01/24 17:22*	*10*

QC Sample Results

Client: Harvest
Project/Site: Trunk L

Job ID: 885-12387-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-13470/13
Matrix: Air
Analysis Batch: 13470

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		ug/L			10/01/24 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 412*		*10/01/24 13:06*	*1*

Lab Sample ID: LCS 885-13470/12
Matrix: Air
Analysis Batch: 13470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			50.0	46.6		ug/L		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*202*		*15 - 412*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-13471/13
Matrix: Air
Analysis Batch: 13471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10		ug/L			10/01/24 13:06	1
Ethylbenzene	ND		0.10		ug/L			10/01/24 13:06	1
Toluene	ND		0.10		ug/L			10/01/24 13:06	1
Xylenes, Total	ND		0.20		ug/L			10/01/24 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/01/24 13:06*	*1*

Lab Sample ID: LCS 885-13471/12
Matrix: Air
Analysis Batch: 13471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.00	2.01		ug/L		101	70 - 130		
Ethylbenzene			2.00	1.99		ug/L		100	70 - 130		
m&p-Xylene			4.00	4.01		ug/L		100	70 - 130		
o-Xylene			2.00	1.96		ug/L		98	70 - 130		
Toluene			2.00	1.99		ug/L		99	70 - 130		
Xylenes, Total			6.00	5.97		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

QC Association Summary

Client: Harvest
Project/Site: Trunk L

Job ID: 885-12387-1

GC VOA

Analysis Batch: 13470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12387-1	Influent 092324	Total/NA	Air	8015M/D	
MB 885-13470/13	Method Blank	Total/NA	Air	8015M/D	
LCS 885-13470/12	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 13471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12387-1	Influent 092324	Total/NA	Air	8021B	
MB 885-13471/13	Method Blank	Total/NA	Air	8021B	
LCS 885-13471/12	Lab Control Sample	Total/NA	Air	8021B	

Lab Chronicle

Client: Harvest
Project/Site: Trunk L

Job ID: 885-12387-1

Client Sample ID: Influent 092324

Date Collected: 09/23/24 13:05
Date Received: 09/24/24 07:32

Lab Sample ID: 885-12387-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		10	13470	JP	EET ALB	10/01/24 17:22
Total/NA	Analysis	8021B		10	13471	JP	EET ALB	10/01/24 17:22

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Harvest
Project/Site: Trunk L

Job ID: 885-12387-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

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

Analysis Method	Prep Method	Matrix	Analyte
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: Harvest Midstream
Attn: Jennifer Deal
Mailing Address:
Phone #:
email or Fax#: jdeal@harvestmidstream.com
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: Trunk L
Project #:
Project Manager: Reece Hanson
Sampler: Aaron Lawrence
On Ice: ☐ Yes ☒ No mgs
# of Coolers: 1
Cooler Temp(including CF): 16.2-0.1=16.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
885-12367 COC
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/23/24	1305	Air	Influent 092324	2-Tedlar			X	X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/23/24	1500	Aaron Lawrence	Chantz Walters		9/23/24	1500
9/23/24	1719	Chantz Walters		courier	9/24/24	7:32

Remarks:
cc: rhanson@ensolum.com

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.

Login Sample Receipt Checklist

Client: Harvest Job Number: 885-12387-1

Login Number: 12387 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
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 392904

CONDITIONS

Operator:	OGRID:
Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	373888
	Action Number: 392904
	Action Type: [REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by January 15, 2025.	10/25/2024