

2024 Annual Groundwater Monitoring Report

Plains All American Pipeline, LP DCP Plant to Lea Station 6-Inch Section 31

Lea County, New Mexico
Unit Letter "K", Section 31, Township 20 South, Range 37 East
Latitude 32.52733° North, Longitude 103.29060° West
Plains SRS #: 2009-084
NMOCD Reference #: 1RP-2166
NMOCD Incident ID #: nAPP2109734163

Prepared By:

Etech Environmental & Safety Solutions, Inc.

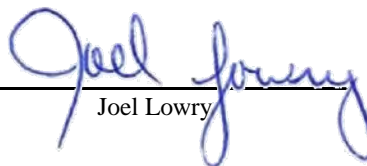
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1.0 INTRODUCTION & SITE DESCRIPTION

Etech Environmental & Safety Solutions (Etech), on behalf of Plains All American Pipeline, LP (Plains), has prepared this *2024 Annual Groundwater Monitoring Report* for the DCP Plant to Lea Station 6-Inch Section 31 Release site in accordance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an *Annual Monitoring Report* by April 1 of each year.

The legal description of the site is Unit Letter “K” (NE/SW), Section 31, Township 20 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). The geographic coordinates of the release site are 32.52733° North latitude and 103.2906° West longitude. A “Site Location Map” is provided as Figure 1.

2.0 BACKGROUND INFORMATION

On April 2, 2009, Plains discovered a crude oil release from a 6-inch steel pipeline. During initial response activities, Plains installed a temporary clamp on the pipeline to mitigate the release. The crude oil release resulted in a surface stain measuring approximately six (6) feet in width by eight (8) feet in length. Plains initially classified the release as “non-reportable”. On further investigation, Plains reclassified the release as “reportable”, notified the NMOCD Hobbs District Office, and submitted a “Release Notification and Corrective Action” (Form C-141) on April 29, 2009. The cause of the release was attributed to external corrosion of the pipeline. The C-141 indicated that approximately 20 barrels (bbls) of crude oil was released from the pipeline, with no recovery.

On April 15, 2009, one (1) soil boring (SB-1) was advanced approximately 10 feet west of the release point to evaluate the vertical extent of impacted soil. During advancement of the soil boring, groundwater was encountered at approximately 77 feet below ground surface (bgs). Temporary casing was installed in the soil boring to obtain a preliminary groundwater sample. On April 16, 2009, a groundwater sample (SB-1) was collected from the temporary casing and submitted to a certified, commercial laboratory for analysis of total dissolved solids (TDS); chloride; and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Following the collection of the groundwater sample, the temporary casing was removed from the soil boring, and the soil boring was plugged with cement and bentonite, as required by the New Mexico Office of the State Engineer (NMOSE). Laboratory analytical results indicated a benzene concentration of 1.915 mg/L, a BTEX concentration of 4.7711 mg/L, a chloride concentration of 54.6 mg/L, and a TDS concentration of 788 mg/L. Based on the analytical results of the submitted groundwater sample, Plains notified NMOCD representatives in the Hobbs District Office and the Santa Fe Office of the laboratory-confirmed impact to groundwater at the release site.

On June 2, 2009, following advancement of the soil boring, excavation of hydrocarbon-impacted soil commenced. Excavated soil was stockpiled on-site on a plastic liner to mitigate the potential leaching of the contaminants into the vadose zone. Approximately 1,400 cubic yards (cy) of soil was stockpiled on-site, pending final disposition. The final dimensions of the excavation were approximately 77 feet in width, 80 feet in length, and 15 feet in depth.

On September 21 through September 23, 2009, Plains installed and developed four (4) monitor wells (MW-1 through MW-4) at the release site, as approved by the NMOCD. Soil samples were collected at five (5) foot drilling intervals and field screened using a Photo-Ionization Detector (PID). Selected soil samples were submitted to the laboratory for determination of concentrations of BTEX and total petroleum hydrocarbons (TPH) using EPA Methods SW-846 8021b and SW-846 8015M, respectively.

Monitor well MW-1 was installed on the floor of the excavation, at approximately 15 feet bgs, to a total depth of approximately 86 feet bgs. Soil samples collected at 25, 35, 45, 55, 65, and 75 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated that benzene concentrations were less than the appropriate laboratory method detection limit (MDL) for all of the submitted soil samples. BTEX concentrations ranged from 0.0359 mg/kg for the soil sample collected at 25 feet bgs to 13.444 mg/kg for the soil sample collected at 55 feet bgs. TPH concentrations ranged from 286 mg/kg for the soil sample collected at 25 feet bgs to 1,538 mg/kg for the soil sample collected at 55 feet bgs.

Monitor well MW-2 is located approximately 75 feet northwest (up-gradient) of the release point. The monitor well was installed to a total depth of approximately 90 feet bgs. Soil samples collected at 15, 30, 45, 60, and 75 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated that BTEX and TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples.

Monitor well MW-3 is located approximately 75 feet to the southwest (cross-gradient) of the release point. The monitor well was installed to a total depth of approximately 90 feet bgs. Soil samples collected at 15, 30, 45 and 60 feet were submitted to the laboratory for analysis. Laboratory analytical results indicated that benzene concentrations ranged from less than the appropriate laboratory MDL for the soil samples collected at 15, 30, and 45 feet bgs to 0.0025 mg/kg for the soil sample collected at 60 feet bgs. Analytical results indicated that BTEX concentrations ranged from less than the appropriate laboratory MDL for the soil samples collected at 15, 30, and 45 feet bgs to 0.0052 mg/kg for the soil sample collected at 60 feet bgs. TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples.

Monitor well MW-4 is located approximately 75 feet to the southeast (down-gradient) of the release point. The monitor well was installed to a total depth of approximately 89 feet bgs. Soil samples collected at 15, 30, 45, and 60 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated that BTEX and TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples.

On January 25, 2011, one (1) additional monitor well (MW-5) was installed to further monitor the down-gradient migration of the phase-separated hydrocarbon (PSH) plume. Monitor well MW-5 is located approximately 60 feet to the southeast (down-gradient) of the release point. The monitor well was installed to a total depth of approximately 95 feet bgs. Soil samples collected at 15, 25, 45, 65, and 75 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated that BTEX and TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples. PSH was not observed in monitor well MW-5.

On September 11, 2013, one (1) additional monitor well (MW-6) was installed to further monitor the down-gradient migration of the PSH plume. Monitor well MW-6 is located approximately 95 feet to the east (cross-gradient) of the release point. The monitor well was installed to a total depth of approximately 100 feet bgs. Soil samples collected at five (5), 40, and 75 feet bgs were submitted to the laboratory for analysis. Laboratory analytical results indicated that BTEX and TPH concentrations were less than the appropriate laboratory MDL for all of the submitted soil samples. PSH was not observed in monitor well MW-6.

On March 6, 2020, a soil vapor extraction (SVE) unit was installed on monitor well MW-1. Previously a mobile dual phase extraction (MDPE) unit was utilized for the extraction of soil vapor. Monthly effluent air samples were collected from the SVE unit to ensure compliance with New Mexico Environment Department (NMED) Air Quality Bureau (AQB) Action Levels. Results of effluent sample analyses are summarized in Table 3.

In February 2023, Etech, at the request of Plains, assumed project management and oversight responsibilities for groundwater remediation activities at the DCP Plant to Lea Station 6-Inch Section 31.

Currently, a total of six (6) monitor wells (MW-1 through MW-6) are located at the DCP Plant to Lea Station 6-Inch Section 31 Release site. Monitor wells MW-2, MW-4, and MW-5 are gauged and sampled on a quarterly schedule. A semi-annual monitoring schedule has been approved by the NMOCD for monitor wells MW-3 and MW-6. Monitor well MW-1 is gauged monthly but not sampled due to the presence of PSH.

3.0 FIELD ACTIVITIES

3.1 Product Recovery

A measurable thickness of PSH was detected in monitor well MW-1 during the initial site investigation. Manual recovery of PSH from MW-1 commenced in October 2009. Monthly gauging and manual recovery events were conducted from monitor well MW-1 during the first quarter of the 2024 reporting period. Approximately 5,785 gallons (138 bbls) of PSH were recovered by manual recovery between 2009 and March 2024. The average PSH thickness measured in MW-1 during the reporting period was 0.39 feet.

Monthly Aggressive Fluid Recovery (AFR) events were conducted on monitor well MW-1 throughout the 2024 monitoring period in an effort to control the down- and cross-gradient migration of the dissolved-phase plume. During the AFR events, a hose was lowered into the well's fluid column and connected to a vacuum truck to recover both groundwater impacted with dissolved-phase hydrocarbons and/or PSH. Due to the nature of the recovery method used, it is not possible to accurately determine the exact quantity of PSH recovered.

An approximate total of 1,722 gallons (41 bbls) of hydrocarbon-impacted groundwater were recovered from monitor well MW-1 during the reporting period via a combination of manual recovery and AFR. A total of approximately 2,072 gallons (49 bbls) of impacted groundwater have been recovered during AFR events since 2023.

Groundwater gauging and recovery data for monitor well MW-1 is summarized in Table 4.

In September 2012, an MDPE unit was installed on monitor well MW-1 by Talon LPE. The MDPE unit was shared with the nearby release site known as DCP Plant to Lea Station 6-Inch #2 (NMOCD Incident #nAPP2109730917), and the location of the unit was alternated periodically until an SVE was installed at the aforementioned site on July 19, 2017.

On March 6, 2020, an SVE unit was installed on monitor well MW-1. Since March 2020, monthly emission samples have been collected to ensure compliance with NMED-AQB emission threshold requirements. Effluent air samples are collected from the exhaust port of the SVE system during each monthly AFR event. Emission mass calculations indicated that BTEX emission rates averaged 0.169 tons/year, which is well below the yearly AQB emission threshold of 10 tons/year. Laboratory analytical results for effluent air samples are summarized in Table 3, and laboratory analytical reports are provided in Appendix B.

3.2 Groundwater Monitoring

Groundwater monitoring events were conducted on March 12 (1Q2024); June 13 (2Q2024); September 10 (3Q2024); and December 13 and 14, 2024 (4Q2024). The groundwater monitoring events consisted of measuring static water levels in the on-site monitor wells (MW-1 through MW-6), checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Purged water was placed into the on-site AST and disposed of at an NMOCD-approved disposal facility.

Groundwater samples were collected utilizing low-flow sampling equipment, including a bladder pump and multi-parameter meter. Prior to sample collection, readings on the multi-parameter meter were recorded for a minimum of four (4) cycles of five (5) minutes each. Each groundwater sample collected was placed in laboratory-supplied containers appropriate to the analysis requested and placed on ice in a cooler.

Locations of the groundwater monitor wells and the inferred groundwater elevations, which were constructed from measurements collected during the 2024 quarterly sampling events, are depicted in Figures 2A through 2D. The maps indicate a general groundwater gradient of 0.002 to 0.003 feet/foot to the south-southeast, as measured between monitor wells MW-2 and MW-4. Groundwater elevation and PSH thickness data is summarized in Table 1.

Based on sampling criteria provided by the NMOCD, none of the on-site monitor wells were subject to monitoring for polycyclic aromatic hydrocarbons (PAH) during the reporting period.

4.0 LABORATORY RESULTS

Groundwater samples collected from the on-site monitor wells during the quarterly monitoring events were delivered to Permian Basin Environmental Lab (PBEL) and/or Pace Analytical in Midland, Texas, for determination of BTEX constituent concentrations by Environmental Protection Agency (EPA) Method SW846-8021b. A summary of laboratory analytical results is presented in Table 2. Groundwater concentration maps are provided as Figures 3A through 3D. Laboratory analytical reports are provided as Appendix A.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in Section 20.6.2.3103 of the New Mexico Administrative Code (NMAC).

Monitor Well MW-1

Monitor well MW-1 was not sampled during the 2024 reporting period due to the presence of PSH in the well.

Monitor Well MW-2

Laboratory analytical results indicated that benzene, toluene, and total xylene concentrations were less than the applicable laboratory MDL in each of the submitted groundwater samples. Toluene concentrations were less than the laboratory MDL in each of the submitted groundwater samples. Ethylbenzene concentrations ranged from less than the laboratory MDL in 1Q2024, 3Q2024, and 4Q2024 to 0.00333 mg/L in 2Q2024.

BTEX constituent concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

Monitor Well MW-3

Laboratory analytical results indicated that BTEX constituent concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples.

Monitor Well MW-4

Laboratory analytical results indicated that BTEX constituent concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples.

Monitor Well MW-5

Laboratory analytical results indicated that BTEX constituent concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples.

Monitor Well MW-6

Laboratory analytical results indicated that BTEX constituent concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples.

5.0 SUMMARY

This report presents the results of the monitoring activities for the 2024 annual monitoring period. Currently, there are six (6) groundwater monitor wells (MW-1 through MW-6) on-site.

An approximate total of 1,722 gallons (41 bbls) of hydrocarbon-impacted groundwater were recovered from monitor well MW-1 during the reporting period via a combination of manual recovery and AFR. A total of approximately 2,072 gallons (49 bbls) of impacted groundwater have been recovered during AFR events since 2023. The average PSH thickness measured in monitor well MW-1 during the reporting period was 0.39 feet.

Effluent air samples collected from the exhaust port of the SVE system during the monitoring period indicated that BTEX emission rates averaged 0.169 tons/year, which is well below the yearly AQB emission threshold of 10 tons/year.

Groundwater monitoring events were conducted on March 12 (1Q2024); June 13 (2Q2024); September 10 (3Q2024); and December 13 and 14, 2024 (4Q2024). Monitor well MW-1 was not sampled in 2024 due to the presence of PSH. BTEX constituent concentrations in monitor wells MW-2 through MW-6 were less than NMOCD regulatory standards in all submitted groundwater samples.

None of the on-site monitor wells were subject to PAH monitoring during the reporting period.

Groundwater gauging data collected during the monitoring period indicates a general gradient of approximately 0.002 to 0.003 feet/foot to the south-southeast as measured between monitor wells MW-2 and MW-4.

6.0 ANTICIPATED ACTIONS

Monitor wells MW-3 and MW-6 will continue to be sampled on a semi-annual basis.

Since monitor wells MW-2, MW-4, and MW-5 have exhibited eight (8) or more consecutive quarters with no concentrations of BTEX constituents above NMOCD regulatory standards, the sampling frequency for these wells can safely be reduced from quarterly to semi-annually (i.e., twice per year).

AFR will continue on a monthly basis from monitor well MW-1 in an effort to control the down-gradient migration of the dissolved-phase plume.

Recovery by SVE and monthly emission sampling will continue from monitor well MW-1.

Results of the 2025 sampling and recovery events will be reported in the *2025 Annual Groundwater Monitoring Report*, which will be submitted to the NMOCD by April 1, 2026.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *2024 Annual Groundwater Monitoring Report* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains All American Pipeline, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Plains All American Pipeline, LP.

8.0 DISTRIBUTION

Plains All American Pipeline, LP
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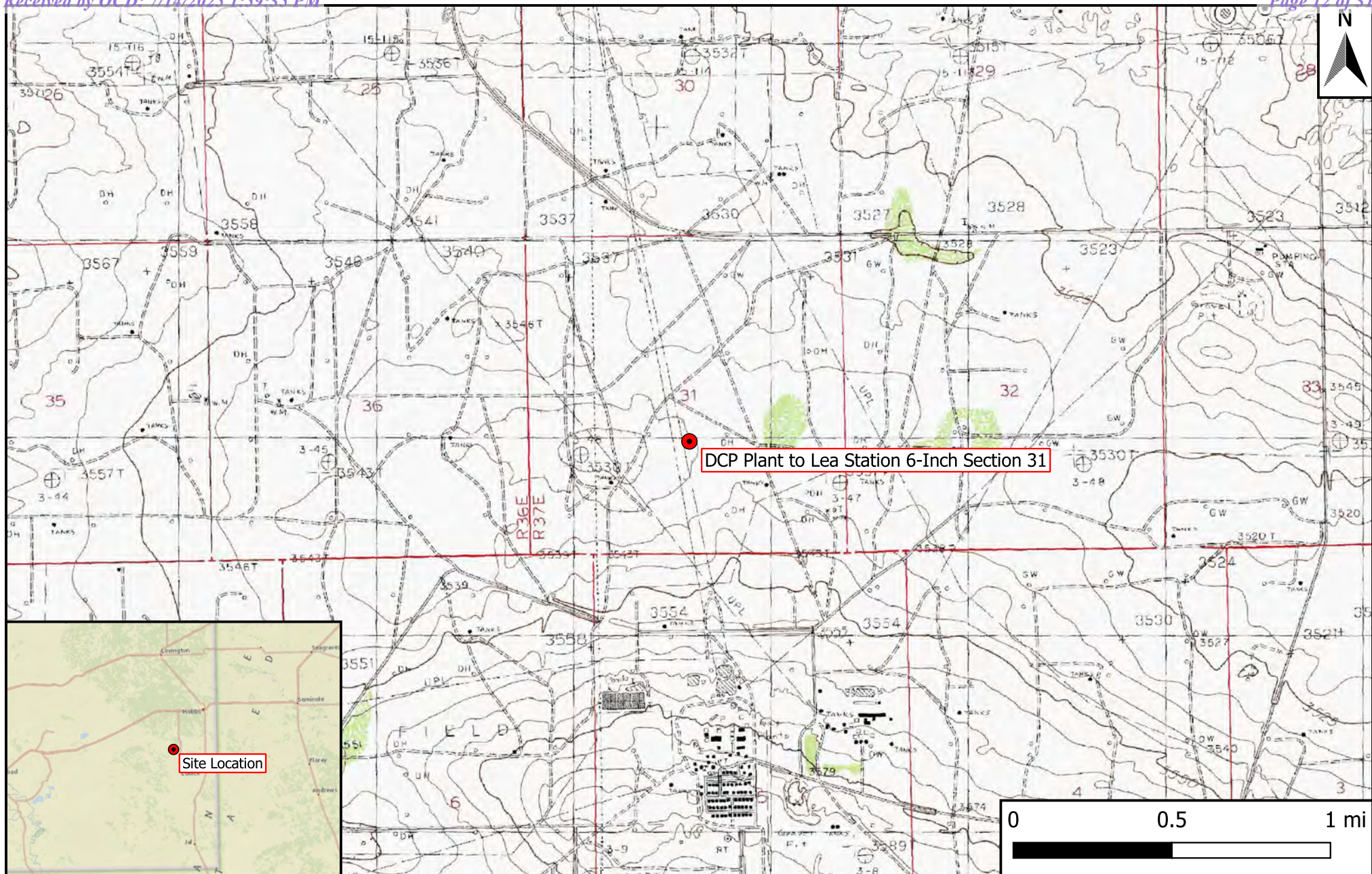
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Aztec, NM 87410

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Houston, Texas 77002

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1

Site Location Map
 Plains All American Pipeline, LP
 DCP Plant to Lea Station 6-Inch Section 31
 GPS: 32.52733,-103.29060
 Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 3/13/25

Figures 2A–2D

Inferred Groundwater Gradient Maps



**Notes:**

All measurements are in feet above mean sea level.
 Groundwater gradient magnitude was 0.003 ft/ft, as measured
 between monitor wells MW-2 and MW-4.
 Due to the presence of PSH, monitor well MW-1 was not utilized in
 map construction.

**Legend**

- Monitor Well
- Recovery Well
- Groundwater Elevation Contour (ft)
- ➔ Groundwater Gradient/Magnitude

Figure 2B

Inferred Groundwater Gradient Map – 2Q2024
 Plains All American Pipeline, LP
 DCP Plant to Lea Station 6-Inch Section 31
 GPS: 32.52733,-103.29060
 Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 7/19/24

**Notes:**

All measurements are in feet above mean sea level.
 Groundwater gradient magnitude was 0.003 ft/ft, as measured
 between monitor wells MW-2 and MW-4.
 Due to the presence of PSH, monitor well MW-1 was not utilized in
 map construction.

**Legend**

- Monitor Well
- Recovery Well
- Groundwater Elevation Contour (ft)
- ➔ Groundwater Gradient/Magnitude

Figure 2C

Inferred Groundwater Gradient Map – 3Q2024
 Plains All American Pipeline, LP
 DCP Plant to Lea Station 6-Inch Section 31
 GPS: 32.52733,-103.29060
 Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 11/14/24

**Notes:**

All measurements are in feet above mean sea level.
 Groundwater gradient magnitude was 0.002 ft/ft, as measured
 between monitor wells MW-2 and MW-4.
 Due to the presence of PSH, monitor well MW-1 was not utilized in
 map construction.

**Legend**

- Monitor Well
- Recovery Well
- Groundwater Elevation Contour (ft)
- ➔ Groundwater Gradient/Magnitude

Figure 2D

Inferred Groundwater Gradient Map – 4Q2024
 Plains All American Pipeline, LP
 DCP Plant to Lea Station 6-Inch Section 31
 GPS: 32.52733,-103.29060
 Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 2/11/25

Figures 3A–3D

Groundwater Concentration Maps



Legend

- Monitor Well
- Recovery Well
- Free Phase Plume

Figure 3A
Groundwater Concentration Map – 1Q2024
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico

eTECH
Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 5/8/24



Legend

- Monitor Well
- Recovery Well
- Free Phase Plume

Figure 3B

Groundwater Concentration Map – 2Q2024
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 7/19/24



Legend

- Monitor Well
- Recovery Well
- Free Phase Plume

Figure 3C

Groundwater Concentration Map – 3Q2024
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch Section 31
GPS: 32.52733,-103.29060
Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 11/14/24



Tables 1–4

Table 1
Groundwater Elevation & PSH¹ Thickness Summary

DCP Plant to Lea Station 6-Inch Sec. 31
Lea County, New Mexico
Plains SRS #: 2009-084
Etech Project #: 14743
NMOCD² Incident ID #: nAPP2109734163

All elevation measurements are in feet above mean sea level

Well ID	Date Gauged	Top of Casing (TOC) ³ Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation**
MW-1	03/29/2023	3,539.59	85.02	85.88	0.86	3,454.44
	06/21/2023		85.02	86.16	1.14	3,454.40
	09/19/2023		85.00	85.88	0.88	3,454.46
	12/07/2023		85.10	85.16	0.06	3,454.48
	03/12/2024		85.22	85.87	0.65	3,454.27
	06/12/2024		85.19	85.69	0.50	3,454.33
	09/10/2024		85.34	85.62	0.28	3,454.21
	12/13/2024		85.01	85.17	0.16	3,454.56
MW-2	03/29/2023	3,539.37	-	83.74	-	3,455.63
	06/21/2023		-	83.76	-	3,455.61
	09/19/2023		-	83.72	-	3,455.65
	12/07/2023		-	83.88	-	3,455.49
	03/12/2024		-	83.95	-	3,455.42
	06/13/2024		-	83.91	-	3,455.46
	09/10/2024		-	84.01	-	3,455.36
	12/13/2024		-	83.99	-	3,455.38
MW-3	03/29/2023	3,539.28	-	84.11	-	3,455.17
	06/21/2023		-	84.15	-	3,455.13
	09/19/2023		-	84.10	-	3,455.18
	12/07/2023		-	84.24	-	3,455.04
	03/12/2024		-	84.32	-	3,454.96
	06/13/2024		-	84.27	-	3,455.01
	09/10/2024		-	84.37	-	3,454.91
	12/13/2024		-	84.35	-	3,454.93
MW-4	03/29/2023	3,540.07	-	85.14	-	3,454.93
	06/21/2023		-	85.19	-	3,454.88
	09/19/2023		-	85.13	-	3,454.94
	12/07/2023		-	85.25	-	3,454.82
	03/12/2024		-	85.34	-	3,454.73
	06/13/2024		-	85.30	-	3,454.77
	09/10/2024		-	85.41	-	3,454.66
	12/13/2024		-	85.37	-	3,454.70
MW-5	03/29/2023	3,539.90	-	84.74	-	3,455.16
	06/21/2023		-	84.74	-	3,455.16
	09/19/2023		-	84.75	-	3,455.15
	12/07/2023		-	84.92	-	3,454.98
	03/12/2024		-	85.00	-	3,454.90
	06/13/2024		-	84.92	-	3,454.98
	09/10/2024		-	85.05	-	3,454.85
	12/14/2024		-	85.03	-	3,454.87
MW-6	03/29/2023	3,540.82	-	85.80	-	3,455.02
	06/21/2023		-	85.62	-	3,455.20
	09/19/2023		-	85.85	-	3,454.97
	12/07/2023		-	85.74	-	3,455.08
	03/12/2024		-	85.80	-	3,455.02
	06/13/2024		-	85.78	-	3,455.04
	09/10/2024		-	85.87	-	3,454.95
	12/13/2024		-	85.86	-	3,454.96

Notes:

1. PSH: Phase Separated Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. TOC: Top of Casing

* Elevations based on the North American Vertical Datum of 1988.

** Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the monitor well.

Table 2
Groundwater BTEX¹ Concentration Analytical Summary

DCP Plant to Lea Station 6-Inch Sec. 31
Lea County, New Mexico
Plains SRS #: 2009-084
Etech Project #: 17473
NMOCD² Incident ID #: nAPP2109734163

All concentrations are in milligrams per liter (mg/L)

Well ID	Date Sampled	EPA SW846-8021B						
		Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylenes	Total Xylenes	Total BTEX
NMOCD RRAL CRITERIA ³		0.01	0.75	0.75	TOTAL XYLENES 0.62			NE ⁴
MW-1	03/30/2023	Not Sampled due to presence of PSH						
	06/21/2023							
	09/19/2023							
	12/07/2023							
	03/12/2024							
	06/13/2024							
	09/10/2024							
12/13/2024								
MW-2	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.0100
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/2023	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	03/12/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	06/13/2024	<0.00100	<0.00100	0.00333	<0.00200	<0.00100	<0.00100	0.00333
	09/10/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	12/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
MW-3	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/2023	Well Not Sampled (Reduced Sampling Schedule)						
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/2023	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	03/12/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	06/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	09/10/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	12/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
MW-4	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.0100
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/2023	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	03/12/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	06/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	09/10/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	12/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
MW-5	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.0100
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/2023	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	03/12/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	06/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	09/10/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	12/14/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
MW-6	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	06/21/2023	Well Not Sampled (Reduced Sampling Schedule)						
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200
	12/07/2023	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	03/12/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510
	06/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	09/10/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100
	12/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100

Notes:

1. BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes
2. NMOCD: New Mexico Oil Conservation Division
3. RRAL Criteria: Recommended Remediation Action Level Criteria
4. NE: Not Established

Bold text indicates a concentration exceeding the NMOCD RRAL Criteria

TABLE 3
SVE¹ Emission Analytical Summary - BTEX² & TPH³

DCP Plant to Lea Station 6-Inch Sec. 31
 Lea County, New Mexico
 Etech Project #: 17473
 Plains SRS#: 2009-084
 NMOCD Incident ID#: nAPP2109734163

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m³)	Emission Mass ⁴ (tons/year)	Emission Volume (gal/day)
New Mexico Environment Department (NMED) Air Quality Burea (AQB) Action Level requiring an Air Permit				10	--
EFF-1 (013024)	01/30/2024	Pace	Benzene - ND	ND	ND
			Toluene - ND	ND	ND
			Ethylbenzene - 0.336	0.000229	0.000172
			Total Xylene - 4.14	0.00282	0.00212
			Total BTEX - 4.48	0.00305	0.00229
			TPH - GRO - 1,900	1.29	1.20
EFF-1 (021524)	02/15/2024	Pace	Benzene - 0.648	0.000441	0.000332
			Toluene - 68.9	0.0469	0.0353
			Ethylbenzene - 25.3	0.0172	0.0129
			Total Xylene - 126	0.0857	0.0644
			Total BTEX - 221	0.150	0.113
			TPH - GRO - 5,990	4.08	3.77
EFF-1 (032524)	03/25/2024	PBEL	Benzene - 0.317	0.000216	0.000162
			Toluene - 0.934	0.000636	0.000478
			Ethylbenzene - ND	ND	ND
			Total Xylene - 3.15	0.00215	0.00161
			Total BTEX - 4.40	0.00300	0.00225
			TPH - GRO - 2,310	1.57	1.45
1Q2024 BTEX Average				0.0521	0.0392

Notes:

1. SVE: Soil Vapor Extraction

2. BTEX: Benzene, toluene, ethylbenzene, and total xylene analyzed by EPA Method 8021B

3. TPH: Total petroleum hydrocarbons analyzed by EPA Method 8015

4. Emission Mass calculated assuming flowrate 1.1073 (m³/min) and constituent concentration were constant for the entirety of a year.

NA: Constituent was not analyzed

ND: Analyte not detected at or above the reporting limit

< = Constituent not detected above laboratory sample detection limit (SDL)

Bold denotes concentrations that could potentially be in violation of applicable NMED AQB criteria.

TABLE 3
SVE¹ Emission Analytical Summary - BTEX² & TPH³

DCP Plant to Lea Station 6-Inch Sec. 31
 Lea County, New Mexico
 Etech Project #: 17473
 Plains SRS#: 2009-084
 NMOCD Incident ID#: nAPP2109734163

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m³)	Emission Mass ⁴ (tons/year)	Emission Volume (gal/day)
New Mexico Environment Department (NMED) Air Quality Bureau (AQB) Action Level requiring an Air Permit				10	--
EFF-1 (041624)	04/16/2024	PBEL	Benzene - 0.399	0.000272	0.000204
			Toluene - 0.234	0.000159	0.000120
			Ethylbenzene - 0.132	0.0000902	0.0000678
			Total Xylene - 1.25	0.000854	0.000642
			Total BTEX - 2.02	0.00138	0.00103
			TPH - GRO - NA	NA	NA
EFF-1 (052124)	05/21/2024	PBEL	Benzene - ND	ND	ND
			Toluene - 392	0.267	0.201
			Ethylbenzene - 80.8	0.0550	0.0413
			Total Xylene - 196	0.134	0.101
			Total BTEX - 669	0.456	0.342
			TPH - GRO - NA	NA	NA
EFF-1 (062624)	06/26/2024	PBEL	Benzene - ND	ND	ND
			Toluene - 33.4	0.0227	0.0171
			Ethylbenzene - ND	ND	ND
			Total Xylene - ND	ND	ND
			Total BTEX - 33.4	0.0227	0.0171
			TPH - GRO - NA	NA	NA
2Q2024 BTEX Average				0.160	0.120

Notes:

- SVE: Soil Vapor Extraction
 - BTEX: Benzene, toluene, ethylbenzene, and total xylene analyzed by EPA Method 8021B
 - TPH: Total petroleum hydrocarbons analyzed by EPA Method 8015
 - Emission Mass calculated assuming flowrate 1.1073 (m³/min) and constituent concentration were constant for the entirety of a year.
- NA: Constituent was not analyzed
 ND: Analyte not detected at or above the reporting limit
 < = Constituent not detected above laboratory sample detection limit (SDL)
Bold denotes concentrations that could potentially be in violation of applicable NMED AQB criteria.

TABLE 3
SVE¹ Emission Analytical Summary - BTEX² & TPH³

DCP Plant to Lea Station 6-Inch Sec. 31
 Lea County, New Mexico
 Etech Project #: 17473
 Plains SRS#: 2009-084
 NMOCD Incident ID#: nAPP2109734163

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m³)	Emission Mass ⁴ (tons/year)	Emission Volume (gal/day)
New Mexico Environment Department (NMED) Air Quality Bureau (AQB) Action Level requiring an Air Permit				10	--
EFF-1 (072424)	07/24/2024	PBEL	Benzene - 0.351	0.000239	0.000180
			Toluene - 1,146	0.780	0.586
			Ethylbenzene - 0.3040	0.000207	0.000156
			Total Xylene - 0.6079	0.000414	0.000311
			Total BTEX - 1,147	0.781	0.587
			TPH - GRO - NA	NA	NA
EFF-1 (082024)	08/20/2024	PBEL	Benzene - 2.59	0.00176	0.00132
			Toluene - ND	ND	ND
			Ethylbenzene - ND	ND	ND
			Total Xylene - ND	ND	ND
			Total BTEX - 2.59	0.00176	0.00132
			TPH - GRO - NA	NA	NA
EFF-1 (092924)	09/29/2024	PBEL	Benzene - ND	ND	ND
			Toluene - ND	ND	ND
			Ethylbenzene - ND	ND	ND
			Total Xylene - ND	ND	ND
			Total BTEX - ND	ND	ND
			TPH - GRO - NA	NA	NA
3Q2024 BTEX Average				0.391	0.294

Notes:

- SVE: Soil Vapor Extraction
 - BTEX: Benzene, toluene, ethylbenzene, and total xylene analyzed by EPA Method 8021B
 - TPH: Total petroleum hydrocarbons analyzed by EPA Method 8015
 - Emission Mass calculated assuming flowrate 1.1073 (m³/min) and constituent concentration were constant for the entirety of a year.
- NA: Constituent was not analyzed
 ND: Analyte not detected at or above the reporting limit
 < = Constituent not detected above laboratory sample detection limit (SDL)
Bold denotes concentrations that could potentially be in violation of applicable NMED AQB criteria.

TABLE 3
SVE¹ Emission Analytical Summary - BTEX² & TPH³

DCP Plant to Lea Station 6-Inch Sec. 31
Lea County, New Mexico
Etech Project #: 17473
Plains SRS#: 2009-084
NMOCD Incident ID#: nAPP2109734163

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m³)	Emission Mass ⁴ (tons/year)	Emission Volume (gal/day)
New Mexico Environment Department (NMED) Air Quality Burea (AQB) Action Level requiring an Air Permit				10	--
EFF-1 (101624)	10/16/2024	PBEL	Benzene - ND	ND	ND
			Toluene - 3.09	0.00210	0.00158
			Ethylbenzene - ND	ND	ND
			Total Xylene - ND	ND	ND
			Total BTEX - 3.09	0.00210	0.00158
			TPH - GRO - NA	NA	NA
EFF-1 (111424)	11/14/2024	PBEL	Benzene - 46.6	0.0318	0.0239
			Toluene - 156	0.106	0.080
			Ethylbenzene - 36.9	0.0251	0.0189
			Total Xylene - 159	0.108	0.0813
			Total BTEX - 399	0.272	0.204
			TPH - GRO - NA	NA	NA
EFF-1 (121024)	12/10/2024	PBEL	Benzene - ND	ND	ND
			Toluene - ND	ND	ND
			Ethylbenzene - ND	ND	ND
			Total Xylene - ND	ND	ND
			Total BTEX - ND	ND	ND
			TPH - GRO - NA	NA	NA
4Q2024 BTEX Average				0.137	0.103
2024 Annual BTEX Average				0.169	0.165

Notes:

- SVE: Soil Vapor Extraction
 - BTEX: Benzene, toluene, ethylbenzene, and total xylene analyzed by EPA Method 8021B
 - TPH: Total petroleum hydrocarbons analyzed by EPA Method 8015
 - Emission Mass calculated assuming flowrate 1.1073 (m³/min) and constituent concentration were constant for the entirety of a year.
- NA: Constituent was not analyzed
ND: Analyte not detected at or above the reporting limit
< = Constituent not detected above laboratory sample detection limit (SDL)
Bold denotes concentrations that could potentially be in violation of applicable NMED AQB criteria.

Table 4
MW-1 SVE¹ System Operation & Recovery Summary

DCP Plant to Lea Station 6-Inch Sec. 31

Lea County, New Mexico

Plains SRS #: 2009-084

Etech Project #: 17473

NMOCD² Incident ID #: nAPP2109734163

All measurements are in feet above mean sea level

Well ID	Date	Top of Casing (TOC) ³ Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH ⁴ Thickness (feet)	Corrected Groundwater Elevation**	PID ⁵ Reading	SVE Unit Hours of Operation	Total Fluid Recovery [†] (gallons)
MW-1	01/03/2024	3,540.25	84.77	85.49	0.72	3,455.37	-	-	126
	01/30/2024		-	-	-	-	502.6	174.2	-
	01/31/2024		73.70	74.38	0.68	3,466.45	-	185.05	126
	02/15/2024		-	-	-	-	408.5	311.9	-
	02/20/2024		73.88	74.38	0.50	3,466.30	-	363.2	126
	02/27/2024		-	-	-	-	-	425.2	-
	03/12/2024		85.22	85.87	0.65	3,454.93	-	425.2	-
	03/25/2024		84.58	85.26	0.68	3,455.57	534.8	546.0	126
	04/04/2024		-	-	-	-	-	546.0	-
	04/16/2024		-	-	-	-	323.4	793.4	-
	04/18/2024		84.49	84.95	0.46	3,455.69	-	-	252
	05/21/2024		-	-	-	-	241.7	1,225.2	-
	05/23/2024		84.83	85.08	0.25	3,455.38	-	-	210
	06/12/2024		85.19	85.69	0.50	3,454.99	-	-	-
	06/26/2024		-	-	-	-	311.8	1,401.5	-
	06/27/2024		84.64	84.98	0.34	3,455.56	-	-	42.0
	07/24/2024		-	-	-	-	388.0	1,764.9	-
	08/01/2024		84.88	84.98	0.10	3,455.36	-	-	42.0
	08/20/2024		-	-	-	-	395.7	2,075.6	-
	08/22/2024		85.05	85.45	0.40	3,455.14	-	-	42.0
	08/28/2024		-	-	-	-	380.5	2,164.2	-
	09/10/2024		85.34	85.62	0.28	3,454.87	-	-	-
	09/29/2024		-	-	-	-	408.1	2,486.7	-
	09/30/2024		85.02	85.28	0.26	3,455.19	-	-	42.0
	10/16/2024		-	-	-	-	372.9	2,660.0	-
	10/24/2024		85.15	85.29	0.14	3,455.08	-	-	42.0
	11/14/2024		-	-	-	-	203.2	2,933.1	-
	11/22/2024		85.13	85.29	0.16	3,455.10	-	-	210
	12/10/2024		-	-	-	-	192.6	3,157.8	-
	12/13/2024		85.01	85.17	0.16	3,455.22	-	-	-
	12/19/2024		85.08	85.46	0.38	3,455.11	-	-	336
2024 Average PSH Thickness					0.39		2024 Total	1,722	

Notes:

1. SVE: Soil Vapor Extraction

2. NMOCD: New Mexico Oil Conservation Division

3. TOC: Top Of Casing

4. PSH: Phase Separated Hydrocarbons

5. PID: Photoionization Detector

* Elevations based on the North American Vertical Datum of 1988.

** Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the monitor well.

† Via Aggressive Fluid Recovery (AFR) and/or Manual Recovery.

Appendix A

Laboratory Analytical Reports

(Groundwater)



ANALYTICAL REPORT

March 19, 2024

Plains All American Pipeline - ETECH

Sample Delivery Group: L1713919
Samples Received: 03/09/2024
Project Number: SRS #2009-039
Description: DCP Plant to Lea Station 6" #2
Site: SRS #2009-039
Report To: Kimble Thrash
PO Box 62228
Midland, TX 79711

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, reading "Lori Vahrenkamp".

Lori A Vahrenkamp
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	5	
Sr: Sample Results	6	³ Ss
MW-1 L1713919-01	6	
MW-2 L1713919-02	7	⁴ Cn
MW-3 L1713919-03	8	⁵ Sr
MW-4 L1713919-04	9	
MW-5 L1713919-05	10	⁶ Qc
MW-6 L1713919-06	11	
MW-7 L1713919-07	12	⁷ Gl
DUP-1 L1713919-08	13	⁸ Al
TRIP BLANK L1713919-09	14	
MW-8 L1713919-10	15	⁹ Sc
Qc: Quality Control Summary	16	
Volatile Organic Compounds (GC) by Method 8021B	16	
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-SIM	17	
Gl: Glossary of Terms	19	
Al: Accreditations & Locations	20	
Sc: Sample Chain of Custody	21	

MW-1 L1713919-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 03:17	03/14/24 03:17	CDD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-SIM	WG2244545	1	03/13/24 20:43	03/14/24 22:14	JRM	Mt. Juliet, TN

Collected by
Kimble Thrash

Collected date/time
03/07/24 17:20

Received date/time
03/09/24 08:00

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

MW-2 L1713919-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 03:40	03/14/24 03:40	CDD	Mt. Juliet, TN

Collected by
Kimble Thrash

Collected date/time
03/07/24 12:35

Received date/time
03/09/24 08:00

MW-3 L1713919-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 04:02	03/14/24 04:02	CDD	Mt. Juliet, TN

Collected by
Kimble Thrash

Collected date/time
03/07/24 13:40

Received date/time
03/09/24 08:00

MW-4 L1713919-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 04:25	03/14/24 04:25	CDD	Mt. Juliet, TN

Collected by
Kimble Thrash

Collected date/time
03/07/24 14:55

Received date/time
03/09/24 08:00

MW-5 L1713919-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 04:48	03/14/24 04:48	CDD	Mt. Juliet, TN

Collected by
Kimble Thrash

Collected date/time
03/07/24 16:05

Received date/time
03/09/24 08:00

MW-6 L1713919-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 05:11	03/14/24 05:11	CDD	Mt. Juliet, TN

Collected by
Kimble Thrash

Collected date/time
03/07/24 09:00

Received date/time
03/09/24 08:00

MW-7 L1713919-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 05:33	03/14/24 05:33	CDD	Mt. Juliet, TN

Collected by
Kimble Thrash

Collected date/time
03/07/24 10:10

Received date/time
03/09/24 08:00

DUP-1 L1713919-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 05:56	03/14/24 05:56	CDD	Mt. Juliet, TN

Collected by
Kimble Thrash

Collected date/time
03/07/24 17:21

Received date/time
03/09/24 08:00

TRIP BLANK L1713919-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 00:12	03/14/24 00:12	CDD	Mt. Juliet, TN

MW-8 L1713919-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 06:19	03/14/24 06:19	CDD	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

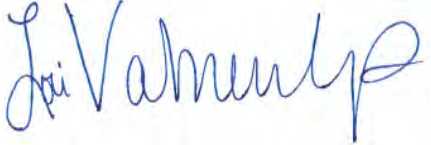
6Qc

7Gl

8Al

9Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Lori A Vahrenkamp
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 03/07/24 17:20

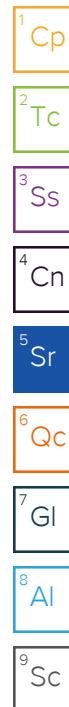
L1713919

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0114		0.000190	0.000500	1	03/14/2024 03:17	WG2246299
Toluene	0.00152	B	0.000412	0.00100	1	03/14/2024 03:17	WG2246299
Ethylbenzene	0.0105		0.000160	0.000500	1	03/14/2024 03:17	WG2246299
Total Xylene	0.0124		0.000510	0.00150	1	03/14/2024 03:17	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	92.6			79.0-125		03/14/2024 03:17	WG2246299

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	1	03/14/2024 22:14	WG2244545
Acenaphthene	U		0.0000190	0.0000500	1	03/14/2024 22:14	WG2244545
Acenaphthylene	U		0.0000170	0.0000500	1	03/14/2024 22:14	WG2244545
Benzo(a)anthracene	U		0.0000200	0.0000500	1	03/14/2024 22:14	WG2244545
Benzo(a)pyrene	U		0.0000180	0.0000500	1	03/14/2024 22:14	WG2244545
Benzo(b)fluoranthene	U		0.0000170	0.0000500	1	03/14/2024 22:14	WG2244545
Benzo(g,h,i)perylene	U		0.0000180	0.0000500	1	03/14/2024 22:14	WG2244545
Benzo(k)fluoranthene	U		0.0000200	0.000250	1	03/14/2024 22:14	WG2244545
Chrysene	U		0.0000180	0.0000500	1	03/14/2024 22:14	WG2244545
Dibenz(a,h)anthracene	U		0.0000180	0.0000500	1	03/14/2024 22:14	WG2244545
Fluoranthene	U		0.0000110	0.0000500	1	03/14/2024 22:14	WG2244545
Fluorene	0.0000212	J	0.0000170	0.0000500	1	03/14/2024 22:14	WG2244545
Indeno(1,2,3-cd)pyrene	U		0.0000180	0.0000500	1	03/14/2024 22:14	WG2244545
Naphthalene	0.000628		0.000128	0.000500	1	03/14/2024 22:14	WG2244545
Phenanthrene	0.0000289	B J	0.0000180	0.0000500	1	03/14/2024 22:14	WG2244545
Pyrene	U		0.0000170	0.0000500	1	03/14/2024 22:14	WG2244545
1-Methylnaphthalene	0.000418	J	0.0000200	0.000500	1	03/14/2024 22:14	WG2244545
2-Methylnaphthalene	0.000393	J	0.0000280	0.000500	1	03/14/2024 22:14	WG2244545
2-Chloronaphthalene	0.0000162	J	0.0000120	0.000500	1	03/14/2024 22:14	WG2244545
(S) Nitrobenzene-d5	74.5			11.0-135		03/14/2024 22:14	WG2244545
(S) 2-Fluorobiphenyl	66.8			32.0-120		03/14/2024 22:14	WG2244545
(S) p-Terphenyl-d14	46.4			23.0-122		03/14/2024 22:14	WG2244545



Collected date/time: 03/07/24 12:35

L1713919

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/14/2024 03:40	WG2246299
Toluene	U		0.000412	0.00100	1	03/14/2024 03:40	WG2246299
Ethylbenzene	U		0.000160	0.000500	1	03/14/2024 03:40	WG2246299
Total Xylene	U		0.000510	0.00150	1	03/14/2024 03:40	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	93.6			79.0-125		03/14/2024 03:40	WG2246299

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/07/24 13:40

L1713919

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/14/2024 04:02	WG2246299
Toluene	U		0.000412	0.00100	1	03/14/2024 04:02	WG2246299
Ethylbenzene	U		0.000160	0.000500	1	03/14/2024 04:02	WG2246299
Total Xylene	U		0.000510	0.00150	1	03/14/2024 04:02	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	93.7			79.0-125		03/14/2024 04:02	WG2246299

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/07/24 14:55

L1713919

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/14/2024 04:25	WG2246299
Toluene	U		0.000412	0.00100	1	03/14/2024 04:25	WG2246299
Ethylbenzene	U		0.000160	0.000500	1	03/14/2024 04:25	WG2246299
Total Xylene	U		0.000510	0.00150	1	03/14/2024 04:25	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	93.6			79.0-125		03/14/2024 04:25	WG2246299

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/07/24 16:05

L1713919

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00346		0.000190	0.000500	1	03/14/2024 04:48	WG2246299
Toluene	U		0.000412	0.00100	1	03/14/2024 04:48	WG2246299
Ethylbenzene	0.000682		0.000160	0.000500	1	03/14/2024 04:48	WG2246299
Total Xylene	0.000585	J	0.000510	0.00150	1	03/14/2024 04:48	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	92.9			79.0-125		03/14/2024 04:48	WG2246299

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/07/24 09:00

L1713919

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/14/2024 05:11	WG2246299
Toluene	U		0.000412	0.00100	1	03/14/2024 05:11	WG2246299
Ethylbenzene	U		0.000160	0.000500	1	03/14/2024 05:11	WG2246299
Total Xylene	U		0.000510	0.00150	1	03/14/2024 05:11	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	94.0			79.0-125		03/14/2024 05:11	WG2246299

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/07/24 10:10

L1713919

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/14/2024 05:33	WG2246299
Toluene	U		0.000412	0.00100	1	03/14/2024 05:33	WG2246299
Ethylbenzene	U		0.000160	0.000500	1	03/14/2024 05:33	WG2246299
Total Xylene	U		0.000510	0.00150	1	03/14/2024 05:33	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	93.6			79.0-125		03/14/2024 05:33	WG2246299

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/07/24 17:21

L1713919

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0118		0.000190	0.000500	1	03/14/2024 05:56	WG2246299
Toluene	0.00156	B	0.000412	0.00100	1	03/14/2024 05:56	WG2246299
Ethylbenzene	0.0107		0.000160	0.000500	1	03/14/2024 05:56	WG2246299
Total Xylene	0.0126		0.000510	0.00150	1	03/14/2024 05:56	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	92.5			79.0-125		03/14/2024 05:56	WG2246299

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/07/24 00:00

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/14/2024 00:12	WG2246299
Toluene	U		0.000412	0.00100	1	03/14/2024 00:12	WG2246299
Ethylbenzene	U		0.000160	0.000500	1	03/14/2024 00:12	WG2246299
Total Xylene	U		0.000510	0.00150	1	03/14/2024 00:12	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	94.2			79.0-125		03/14/2024 00:12	WG2246299

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/07/24 11:20

L1713919

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	03/14/2024 06:19	WG2246299
Toluene	U		0.000412	0.00100	1	03/14/2024 06:19	WG2246299
Ethylbenzene	U		0.000160	0.000500	1	03/14/2024 06:19	WG2246299
Total Xylene	U		0.000510	0.00150	1	03/14/2024 06:19	WG2246299
(S) a,a,a-Trifluorotoluene(PID)	93.7			79.0-125		03/14/2024 06:19	WG2246299

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8021B [L1713919-01,02,03,04,05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R4046130-3 03/13/24 23:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	0.000490	U	0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	95.4			79.0-125

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4046130-1 03/13/24 20:26 • (LCSD) R4046130-4 03/13/24 23:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0545	0.0538	109	108	77.0-122			1.29	20
Toluene	0.0500	0.0491	0.0491	98.2	98.2	80.0-121			0.000	20
Ethylbenzene	0.0500	0.0560	0.0562	112	112	80.0-123			0.357	20
Total Xylene	0.150	0.156	0.157	104	105	47.0-154			0.639	20
(S) a,a,a-Trifluorotoluene(PID)				93.2	93.9	79.0-125				

7
Gl

8
Al

9
Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-SIM L1713919-01

Method Blank (MB)

(MB) R4046308-3 03/15/24 18:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000170	0.0000500
Benzo(a)anthracene	U		0.0000200	0.0000500
Benzo(a)pyrene	U		0.0000180	0.0000500
Benzo(b)fluoranthene	U		0.0000170	0.0000500
Benzo(g,h,i)perylene	U		0.0000180	0.0000500
Benzo(k)fluoranthene	U		0.0000200	0.000250
Chrysene	U		0.0000180	0.0000500
Dibenz(a,h)anthracene	U		0.0000180	0.0000500
Fluoranthene	0.0000129	U	0.0000110	0.0000500
Fluorene	U		0.0000170	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000180	0.0000500
Naphthalene	U		0.000128	0.000500
Phenanthrene	0.0000202	U	0.0000180	0.0000500
Pyrene	U		0.0000170	0.0000500
1-Methylnaphthalene	U		0.0000200	0.000500
2-Methylnaphthalene	U		0.0000280	0.000500
2-Chloronaphthalene	U		0.0000120	0.000500
(S) Nitrobenzene-d5	112			11.0-135
(S) 2-Fluorobiphenyl	90.0			32.0-120
(S) p-Terphenyl-d14	95.5			23.0-122

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4046308-1 03/15/24 17:37 • (LCSD) R4046308-2 03/15/24 17:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.00173	0.00175	86.5	87.5	43.0-127			1.15	20
Acenaphthene	0.00200	0.00171	0.00179	85.5	89.5	42.0-120			4.57	20
Acenaphthylene	0.00200	0.00174	0.00180	87.0	90.0	43.0-120			3.39	20
Benzo(a)anthracene	0.00200	0.00190	0.00195	95.0	97.5	46.0-120			2.60	20
Benzo(a)pyrene	0.00200	0.00171	0.00175	85.5	87.5	44.0-122			2.31	20
Benzo(b)fluoranthene	0.00200	0.00188	0.00190	94.0	95.0	43.0-122			1.06	20
Benzo(g,h,i)perylene	0.00200	0.00163	0.00178	81.5	89.0	25.0-137			8.80	23
Benzo(k)fluoranthene	0.00200	0.00178	0.00186	89.0	93.0	39.0-128			4.40	22
Chrysene	0.00200	0.00202	0.00208	101	104	42.0-129			2.93	20
Dibenz(a,h)anthracene	0.00200	0.00152	0.00176	76.0	88.0	25.0-139			14.6	22
Fluoranthene	0.00200	0.00213	0.00218	106	109	48.0-131			2.32	20

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-SIM

L1713919-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4046308-1 03/15/24 17:37 • (LCSD) R4046308-2 03/15/24 17:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	0.00200	0.00192	0.00196	96.0	98.0	42.0-120			2.06	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00171	0.00178	85.5	89.0	37.0-133			4.01	20
Naphthalene	0.00200	0.00224	0.00185	112	92.5	30.0-120			19.1	22
Phenanthrene	0.00200	0.00190	0.00198	95.0	99.0	42.0-120			4.12	20
Pyrene	0.00200	0.00191	0.00198	95.5	99.0	38.0-124			3.60	20
1-Methylnaphthalene	0.00200	0.00219	0.00209	109	104	43.0-120			4.67	20
2-Methylnaphthalene	0.00200	0.00239	0.00198	119	99.0	40.0-120			18.8	20
2-Chloronaphthalene	0.00200	0.00175	0.00184	87.5	92.0	39.0-120			5.01	20
(S) Nitrobenzene-d5				115	118	11.0-135				
(S) 2-Fluorobiphenyl				91.5	95.0	32.0-120				
(S) p-Terphenyl-d14				94.5	96.5	23.0-122				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Company Name/Address: Plains All American Pipeline - ETECH PO Box 62228 Midland, TX 79711		Billing Information: Accounts Payable 333 Clay St Suite 1600 Houston, TX 77002		Pres Chk <div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto;"></div>		Analysis / Container / Preservative										Chain of Custody Page 1 of 1 MT JULIET, TN <small>12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf</small>				
Report to: Kimble Thrash		Email To: kimble@etechenv.com																		
Project Description: DCP Plant to Lea Station 6" #2		City/State Collected: LEA COUNTY, NM		Please Circle: PT MT CT ET																
Phone: 432 894 9996		Client Project # SRS #2009-039		Lab Project # PLAINSETECH-NM GW												SDG # 1713919 B222				
Collected by (print): KIMBLE THRASH		Site/Facility ID # JRS #2009-039		P.O. #												Acctnum: PLAINSETECH Template: T242875				
Collected by (signature): <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #												Prelogin: P1041687 PM: 3587 - Lori A Vahrenkamp PB:				
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Date Results Needed		No. of Cntrs												Shipped Via: FedEX Ground				
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time											Remarks	Sample # (lab only)		
MW-1		G	GW	—	3-7-24	1720	X	BTEX 40ml Amb-HCl BTEX 40ml Amb-HCl-Bik PAHs											— 01	
MW-2		G	GW	—		1235	3											X		— 02
MW-3		G	GW	—		1340	3											X		— 03
MW-4		G	GW	—		1455	3											X		— 04
MW-5		G	GW	—		1605	3											X		— 05
MW-6		G	GW	—		0900	3											X		— 06
MW-7		G	GW	—		1010	3											X		— 07
DUP-1		G	GW	—		1721	35											X		— 08
TRIP BLANK			GW				X			— 09										
MW-8		G		—		1120				— 10										

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: Order includes: 8xGW for BTEX and 1xTrip Blank. 03/9/24

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via: _____ Tracking # _____
 UPS _____ FedEx _____ Courier _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes/No	
	3/8/24	0715		HCL/ MeOH TBR	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6 to 3.6	Bottles Received: 71
	3/8/24	10:45			
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
			Charles Stevenson	3-24	8:00

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ N

Preservation Correct/Checked: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

If preservation required by Login: Date/Time

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: SRS 2009-039

Project Number: SRS 2009-039

Location: Lea County, NM

Lab Order Number: 4F13014



Current Certification

Report Date: 06/19/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4F13014-01	Water	06/12/24 14:00	06-13-2024 08:49
MW-2	4F13014-02	Water	06/11/24 17:00	06-13-2024 08:49
MW-3	4F13014-03	Water	06/11/24 15:50	06-13-2024 08:49
MW-4	4F13014-04	Water	06/11/24 14:45	06-13-2024 08:49
MW-5	4F13014-05	Water	06/12/24 12:45	06-13-2024 08:49
MW-6	4F13014-06	Water	06/11/24 13:30	06-13-2024 08:49
MW-7	4F13014-07	Water	06/11/24 11:15	06-13-2024 08:49
MW-8	4F13014-08	Water	06/11/24 12:25	06-13-2024 08:49
DUP-1	4F13014-09	Water	06/12/24 12:46	06-13-2024 08:49

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-1
4F13014-01 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	0.00276	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:51	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:51	EPA 8021B	
Ethylbenzene	0.00667	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:51	EPA 8021B	
Xylene (p/m)	0.00452	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:51	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %	80-120			P4F1404	06/14/24 15:16	06/14/24 20:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.5 %	80-120			P4F1404	06/14/24 15:16	06/14/24 20:51	EPA 8021B	
Total BTEX	0.0140	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 20:51	EPA 8021B	
Xylenes (total)	0.00452	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 20:51	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-2
4F13014-02 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:13	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %	80-120			P4F1404	06/14/24 15:16	06/14/24 21:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.0 %	80-120			P4F1404	06/14/24 15:16	06/14/24 21:13	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 21:13	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 21:13	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-3
4F13014-03 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:35	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:35	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:35	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:35	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %	80-120			P4F1404	06/14/24 15:16	06/14/24 21:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.3 %	80-120			P4F1404	06/14/24 15:16	06/14/24 21:35	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 21:35	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 21:35	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-4
4F13014-04 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.3 %		80-120		P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 21:57	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-5
4F13014-05 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:19	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %		80-120		P4F1404	06/14/24 15:16	06/14/24 22:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.1 %		80-120		P4F1404	06/14/24 15:16	06/14/24 22:19	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 22:19	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 22:19	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-6
4F13014-06 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:41	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:41	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:41	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:41	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 22:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %	80-120			P4F1404	06/14/24 15:16	06/14/24 22:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.0 %	80-120			P4F1404	06/14/24 15:16	06/14/24 22:41	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 22:41	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 22:41	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

MW-7
4F13014-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 23:46	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 23:46	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 23:46	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 23:46	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 23:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P4F1404	06/14/24 15:16	06/14/24 23:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	96.3 %		80-120		P4F1404	06/14/24 15:16	06/14/24 23:46	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 23:46	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 23:46	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-8
4F13014-08 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:08	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:08	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:08	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:08	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	102 %	80-120			P4F1404	06/14/24 15:16	06/15/24 00:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	96.3 %	80-120			P4F1404	06/14/24 15:16	06/15/24 00:08	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/15/24 00:08	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/15/24 00:08	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

DUP-1
4F13014-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P4F1404	06/14/24 15:16	06/15/24 00:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	97.8 %		80-120		P4F1404	06/14/24 15:16	06/15/24 00:30	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/15/24 00:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/15/24 00:30	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4F1404 - * DEFAULT PREP *****

Blank (P4F1404-BLK1)

Prepared & Analyzed: 06/14/24

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	80-120			

LCS (P4F1404-BS1)

Prepared & Analyzed: 06/14/24

Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		106	80-120			

LCS Dup (P4F1404-BSD1)

Prepared & Analyzed: 06/14/24

Benzene	0.120	0.00100	mg/L	0.100		120	80-120	0.100	20	
Toluene	0.112	0.00100	"	0.100		112	80-120	1.91	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120	0.500	20	
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120	1.48	20	
Xylene (o)	0.106	0.00100	"	0.100		106	80-120	0.480	20	
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			

Calibration Blank (P4F1404-CCB1)

Prepared & Analyzed: 06/14/24

Benzene	0.130		ug/l							
Toluene	0.160		"							
Ethylbenzene	0.180		"							
Xylene (p/m)	0.260		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.5	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4F1404 - * DEFAULT PREP *****

Calibration Blank (P4F1404-CCB2)

Prepared & Analyzed: 06/14/24

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.220		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.9	80-120			

Calibration Blank (P4F1404-CCB3)

Prepared: 06/14/24 Analyzed: 06/15/24

Benzene	0.250		ug/l							
Toluene	0.140		"							
Ethylbenzene	0.430		"							
Xylene (p/m)	0.480		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	80-120			

Calibration Check (P4F1404-CCV1)

Prepared & Analyzed: 06/14/24

Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		104	80-120			

Calibration Check (P4F1404-CCV2)

Prepared & Analyzed: 06/14/24

Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4F1404 - * DEFAULT PREP *****

Calibration Check (P4F1404-CCV3)				Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	80-120			

Matrix Spike (P4F1404-MS1)				Source: 4F12008-06 Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.125	0.00100	mg/L	0.100	ND	125	80-120			QM-05
Toluene	0.116	0.00100	"	0.100	ND	116	80-120			
Ethylbenzene	0.138	0.00100	"	0.100	ND	138	80-120			QM-05
Xylene (p/m)	0.252	0.00200	"	0.200	ND	126	80-120			QM-05
Xylene (o)	0.112	0.00100	"	0.100	ND	112	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			

Matrix Spike Dup (P4F1404-MSD1)				Source: 4F12008-06 Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.113	0.00100	mg/L	0.100	ND	113	80-120	9.77	20	
Toluene	0.102	0.00100	"	0.100	ND	102	80-120	13.5	20	
Ethylbenzene	0.111	0.00100	"	0.100	ND	111	80-120	21.5	20	QM-05
Xylene (p/m)	0.217	0.00200	"	0.200	ND	109	80-120	14.9	20	
Xylene (o)	0.0945	0.00100	"	0.100	ND	94.5	80-120	16.9	20	
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

6/19/2024

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

L: _____ CH: _____ W: _____

Phone: 432-686-7235

Project Manager: Kimble Thrash

Project Name: SRS 2009-039

Company Name: Etech Environmental & Safety Solutions, Inc.

Project #: SRS 2009-039

Company Address: P.O. Box 6228

Project Loc: Lea County, NM

City/State/Zip: Midland, TX 79711

PO #: _____

Telephone No: (432) 563-2200

Fax No: (432) 563-2213

Report Format: ☐ Standard ☐ TRRP ☐ NPDESSampler Signature: 

e-mail: kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.com


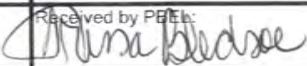
Page 17 of 17

(lab use only)

ORDER #: 4F13014

(lab use only)																Analyze For:														RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
ORDER #:	4F13014	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers								Matrix		TCLP:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	BTEX 8021 B	TOTAL:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

Special Instructions: Please invoice directly to Plains A/P 333 Clay St., Houston, TX 77002 and reference the SRS number in the Project Name.

Relinquished by: 	Date: 6/13/24	Time: 0850	Received by:	Date:	Time:	Laboratory Comments: Sample Containers Intact? <input checked="" type="checkbox"/> N VOCs Free of Headspace? <input checked="" type="checkbox"/> N Labels on container(s) <input checked="" type="checkbox"/> N Custody seals on container(s) <input checked="" type="checkbox"/> N Custody seals on cooler(s) <input checked="" type="checkbox"/> N Sample Hand Delivered by Sampler/Client Rep. ? <input checked="" type="checkbox"/> N by Courier? <input type="checkbox"/> UPS <input type="checkbox"/> DHL <input type="checkbox"/> FedEx <input type="checkbox"/> Lone Star Temperature Upon Receipt: <input type="checkbox"/> °C Thermometer: <input checked="" type="checkbox"/> NCF Adjusted: 4.7 <input type="checkbox"/> °C Factor: <input checked="" type="checkbox"/> 13
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	
Relinquished by:	Date:	Time:	Received by: 	Date: 6/13/24	Time: 8:49	

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Location: Lea County, NM
Lab Order Number: 4I06006



Current Certification

Report Date: 09/13/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4I06006-01	Water	09/05/24 16:45	09-06-2024 09:58
MW-2	4I06006-02	Water	09/05/24 14:00	09-06-2024 09:58
MW-3	4I06006-03	Water	09/05/24 12:45	09-06-2024 09:58
MW-4	4I06006-04	Water	09/05/24 11:15	09-06-2024 09:58
MW-5	4I06006-05	Water	09/05/24 15:20	09-06-2024 09:58
MW-6	4I06006-06	Water	09/05/24 09:35	09-06-2024 09:58
MW-7	4I06006-07	Water	09/04/24 14:40	09-06-2024 09:58
MW-8	4I06006-08	Water	09/04/24 15:55	09-06-2024 09:58
DUP-1	4I06006-09	Water	09/05/24 16:46	09-06-2024 09:58

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

MW-1
4I06006-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.00131	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:42	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:42	EPA 8021B	
Ethylbenzene	0.00249	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:42	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:42	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	130 %		80-120		P4I0910	09/09/24 13:57	09/10/24 06:42	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	98.3 %		80-120		P4I0910	09/09/24 13:57	09/10/24 06:42	EPA 8021B	
Total BTEX	0.00380	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 06:42	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 06:42	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

MW-2
4106006-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 07:03	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 07:03	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 07:03	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 07:03	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 07:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	125 %		80-120		P4I0910	09/09/24 13:57	09/10/24 07:03	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	99.7 %		80-120		P4I0910	09/09/24 13:57	09/10/24 07:03	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 07:03	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 07:03	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-3
4106006-03 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:07	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:07	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:07	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:07	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	128 %	80-120			P4I0910	09/09/24 13:57	09/10/24 08:07	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	99.9 %	80-120			P4I0910	09/09/24 13:57	09/10/24 08:07	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 08:07	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 08:07	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-4
4106006-04 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:29	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:29	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:29	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:29	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	127 %	80-120			P4I0910	09/09/24 13:57	09/10/24 08:29	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	99.6 %	80-120			P4I0910	09/09/24 13:57	09/10/24 08:29	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 08:29	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 08:29	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-5
4106006-05 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:50	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:50	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:50	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:50	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 08:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	123 %	80-120			P4I0910	09/09/24 13:57	09/10/24 08:50	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	99.6 %	80-120			P4I0910	09/09/24 13:57	09/10/24 08:50	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 08:50	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 08:50	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

MW-6
4106006-06 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:11	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:11	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:11	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:11	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	125 %		80-120		P4I0910	09/09/24 13:57	09/10/24 09:11	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P4I0910	09/09/24 13:57	09/10/24 09:11	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 09:11	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 09:11	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-7
4106006-07 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:32	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:32	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:32	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:32	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	119 %	80-120			P4I0910	09/09/24 13:57	09/10/24 09:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %	80-120			P4I0910	09/09/24 13:57	09/10/24 09:32	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 09:32	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 09:32	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
---	---

MW-8
4106006-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	116 %		80-120		P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 09:53	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 09:53	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

DUP-1

4106006-09 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	0.00127	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 10:15	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 10:15	EPA 8021B	
Ethylbenzene	0.00208	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 10:15	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 10:15	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 10:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	120 %	80-120			P4I0910	09/09/24 13:57	09/10/24 10:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.8 %	80-120			P4I0910	09/09/24 13:57	09/10/24 10:15	EPA 8021B	
Total BTEX	0.00335	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 10:15	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 10:15	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4I0910 - * DEFAULT PREP *****

Blank (P4I0910-BLK1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	0.00195	0.00100	"							B-13
Xylene (p/m)	0.00270	0.00200	"							B-13
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.157		"	0.120		131	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	80-120			

LCS (P4I0910-BS1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.103	0.00100	mg/L	0.100		103	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		112	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.145		"	0.120		120	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		100	80-120			

LCS Dup (P4I0910-BSD1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.108	0.00100	mg/L	0.100		108	80-120	3.99	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	3.27	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	3.72	20	
Xylene (p/m)	0.233	0.00200	"	0.200		116	80-120	4.14	20	
Xylene (o)	0.116	0.00100	"	0.100		116	80-120	7.57	20	
Surrogate: 4-Bromofluorobenzene	0.150		"	0.120		125	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			

Calibration Blank (P4I0910-CCB1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.390		ug/l							
Toluene	0.530		"							
Ethylbenzene	2.11		"							B-13
Xylene (p/m)	3.00		"							B-13
Xylene (o)	0.960		"							
Surrogate: 4-Bromofluorobenzene	0.158		"	0.120		132	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4I0910 - * DEFAULT PREP *****

Calibration Blank (P4I0910-CCB2)

Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	0.150		ug/l							
Toluene	0.280		"							
Ethylbenzene	1.32		"							B-13
Xylene (p/m)	1.76		"							
Xylene (o)	0.640		"							
Surrogate: 4-Bromofluorobenzene	0.153		"	0.120		127	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

Calibration Check (P4I0910-CCV1)

Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.229	0.00200	"	0.200		115	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.146		"	0.120		122	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			

Calibration Check (P4I0910-CCV2)

Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		107	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		104	80-120			

Calibration Check (P4I0910-CCV3)

Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4I0910 - * DEFAULT PREP *****

Matrix Spike (P4I0910-MS1)

Source: 4I06006-01

Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	0.0846	0.00100	mg/L	0.100	0.00131	83.3	80-120			
Toluene	0.0848	0.00100	"	0.100	0.000570	84.3	80-120			
Ethylbenzene	0.0881	0.00100	"	0.100	0.00249	85.6	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200	0.00168	85.6	80-120			
Xylene (o)	0.0837	0.00100	"	0.100	ND	83.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	80-120			

Matrix Spike Dup (P4I0910-MSD1)

Source: 4I06006-01

Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	0.125	0.00100	mg/L	0.100	0.00131	123	80-120	38.7	20	R3
Toluene	0.113	0.00100	"	0.100	0.000570	113	80-120	28.8	20	R3
Ethylbenzene	0.117	0.00100	"	0.100	0.00249	115	80-120	29.2	20	R3
Xylene (p/m)	0.239	0.00200	"	0.200	0.00168	119	80-120	32.5	20	R3
Xylene (o)	0.122	0.00100	"	0.100	ND	122	80-120	37.6	20	R3
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

B-13 A common laboratory contaminant was above the RL in the blank

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/13/2024

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

L: _____ CH: _____ W: _____

Phone: 432-686-7235

Project Manager: Kimble Thrash

Project Name: SRS 2009-039

Company Name: Etech Environmental & Safety Solutions, Inc.

Project #: SRS 2009-039

Company Address: P.O. Box 6228

Project Loc: Lea County, NM

City/State/Zip: Midland, TX 79711

PO #:

Telephone No: (432) 563-2200

Fax No: (432) 563-2213

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.com

(lab use only)																Analyze For:																						
ORDER #: 4I06006																TCLP:																						
																TOTAL:																						
LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DV=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	BTEX 8021 B																			RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1		MW-1	-	-	09/05/24	1645		3		3							GW	3																	X			
2		MW-2	-	-	09/05/24	1400		3		3							GW	3																	X			
3		MW-3	-	-	09/05/24	1245		3		3							GW	3																	X			
4		MW-4	-	-	09/05/24	1115		3		3							GW	3																	X			
5		MW-5	-	-	09/05/24	1520		3		3							GW	3																	X			
6		MW-6	-	-	09/05/24	0935		3		3							GW	3																	X			
7		MW-7	-	-	09/04/24	1440		3		3							GW	3																	X			
8		MW-8	-	-	09/04/24	1555		3		3							GW	3																	X			
9		DUP-1	-	-	09/05/24	1646		3		3							GW	3																	X			
Special Instructions: Please invoice directly to Plains A/P 333 Clay St., Houston, TX 77002 and reference the SRS number in the Project Name.																																						
Relinquished by: [Signature]		Date: 9/6/24	Time: 0958	Received by:		Date:	Time:	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DHL FedEx Lone Star Temperature Upon Receipt: Received: 6.0 °C Thermometer: L3 Adjusted: 6.0 °C Factor: NCF																														
Relinquished by:		Date:	Time:	Received by:		Date:	Time:																															
Relinquished by:		Date:	Time:	Received by PBEI: Ben Barron		Date: 9/6/24	Time: 0958																															

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Location: Lea County, NM
Lab Order Number: 4L16014



Current Certification

Report Date: 12/20/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4L16014-01	Water	12/14/24 16:40	12-16-2024 16:03
MW-2	4L16014-02	Water	12/14/24 12:40	12-16-2024 16:03
MW-3	4L16014-03	Water	12/14/24 13:35	12-16-2024 16:03
MW-4	4L16014-04	Water	12/14/24 14:30	12-16-2024 16:03
MW-5	4L16014-05	Water	12/14/24 15:30	12-16-2024 16:03
MW-6	4L16014-06	Water	12/14/24 11:50	12-16-2024 16:03
MW-7	4L16014-07	Water	12/14/24 10:50	12-16-2024 16:03
MW-8	4L16014-08	Water	12/14/24 09:50	12-16-2024 16:03
DUP-1	4L16014-09	Water	12/14/24 16:41	12-16-2024 16:03

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

MW-1
4L16014-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 11:40	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 11:40	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 11:40	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 11:40	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 11:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	75.1 %		80-120		P4L1713	12/17/24 13:54	12/18/24 11:40	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P4L1713	12/17/24 13:54	12/18/24 11:40	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:54	12/18/24 11:40	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:54	12/18/24 11:40	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
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MW-2
4L16014-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:01	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:01	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:01	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:01	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	76.3 %		80-120		P4L1713	12/17/24 13:54	12/18/24 12:01	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P4L1713	12/17/24 13:54	12/18/24 12:01	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:54	12/18/24 12:01	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:54	12/18/24 12:01	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-3

4L16014-03 (Water)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:23	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:23	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:23	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:23	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	76.0 %		80-120		P4L1713	12/17/24 13:54	12/18/24 12:23	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	102 %		80-120		P4L1713	12/17/24 13:54	12/18/24 12:23	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:54	12/18/24 12:23	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:54	12/18/24 12:23	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-4
4L16014-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:45	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:45	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:45	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:45	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1713	12/17/24 13:54	12/18/24 12:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	79.2 %		80-120		P4L1713	12/17/24 13:54	12/18/24 12:45	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P4L1713	12/17/24 13:54	12/18/24 12:45	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:54	12/18/24 12:45	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:54	12/18/24 12:45	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-5
4L16014-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:18	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:18	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:18	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:18	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	78.8 %		80-120		P4L1913	12/19/24 14:28	12/19/24 17:18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P4L1913	12/19/24 14:28	12/19/24 17:18	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 17:18	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 17:18	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

MW-6
4L16014-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:40	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:40	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:40	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:40	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 17:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	76.4 %		80-120		P4L1913	12/19/24 14:28	12/19/24 17:40	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P4L1913	12/19/24 14:28	12/19/24 17:40	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 17:40	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 17:40	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
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MW-7
4L16014-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:02	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	76.1 %		80-120		P4L1913	12/19/24 14:28	12/19/24 18:02	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P4L1913	12/19/24 14:28	12/19/24 18:02	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 18:02	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 18:02	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

MW-8
4L16014-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:23	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:23	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:23	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:23	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	75.1 %		80-120		P4L1913	12/19/24 14:28	12/19/24 18:23	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P4L1913	12/19/24 14:28	12/19/24 18:23	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 18:23	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 18:23	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

DUP-1
4L16014-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:44	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1913	12/19/24 14:28	12/19/24 18:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	76.2 %		80-120		P4L1913	12/19/24 14:28	12/19/24 18:44	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	99.1 %		80-120		P4L1913	12/19/24 14:28	12/19/24 18:44	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 18:44	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/19/24 14:28	12/19/24 18:44	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4L1713 - * DEFAULT PREP *****

Blank (P4L1713-BLK1)

Prepared: 12/17/24 Analyzed: 12/18/24

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0938		"	0.120		78.2	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			

LCS (P4L1713-BS1)

Prepared: 12/17/24 Analyzed: 12/18/24

Benzene	0.0947	0.00100	mg/L	0.100		94.7	80-120			
Toluene	0.0879	0.00100	"	0.100		87.9	80-120			
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.5	80-120			
Xylene (o)	0.0854	0.00100	"	0.100		85.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.0968		"	0.120		80.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			

LCS Dup (P4L1713-BS1)

Prepared: 12/17/24 Analyzed: 12/18/24

Benzene	0.0960	0.00100	mg/L	0.100		96.0	80-120	1.38	20	
Toluene	0.0921	0.00100	"	0.100		92.1	80-120	4.72	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120	5.18	20	
Xylene (p/m)	0.201	0.00200	"	0.200		100	80-120	4.91	20	
Xylene (o)	0.0898	0.00100	"	0.100		89.8	80-120	5.00	20	
Surrogate: 4-Bromofluorobenzene	0.0998		"	0.120		83.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		110	80-120			

Calibration Blank (P4L1713-CCB1)

Prepared: 12/17/24 Analyzed: 12/18/24

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.210		"							
Xylene (p/m)	0.240		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0941		"	0.120		78.4	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	80-120			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4L1713 - * DEFAULT PREP *****

Calibration Blank (P4L1713-CCB2)			Prepared: 12/17/24 Analyzed: 12/18/24							
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.210		"							
Xylene (p/m)	0.240		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0941		"	0.120		78.4	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	80-120			

Calibration Check (P4L1713-CCV1)			Prepared: 12/17/24 Analyzed: 12/18/24							
Benzene	0.0983	0.00100	mg/L	0.100		98.3	80-120			
Toluene	0.0925	0.00100	"	0.100		92.5	80-120			
Ethylbenzene	0.0891	0.00100	"	0.100		89.1	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.2	80-120			
Xylene (o)	0.0906	0.00100	"	0.100		90.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.0983		"	0.120		81.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			

Calibration Check (P4L1713-CCV2)			Prepared: 12/17/24 Analyzed: 12/18/24							
Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.0978	0.00100	"	0.100		97.8	80-120			
Ethylbenzene	0.0950	0.00100	"	0.100		95.0	80-120			
Xylene (p/m)	0.207	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.0959		"	0.120		79.9	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Calibration Check (P4L1713-CCV3)			Prepared: 12/17/24 Analyzed: 12/18/24							
Benzene	0.0906	0.00100	mg/L	0.100		90.6	80-120			
Toluene	0.0879	0.00100	"	0.100		87.9	80-120			
Ethylbenzene	0.0881	0.00100	"	0.100		88.1	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200		95.7	80-120			
Xylene (o)	0.0890	0.00100	"	0.100		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0968		"	0.120		80.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4L1713 - * DEFAULT PREP *****

Matrix Spike (P4L1713-MS1)		Source: 4L16006-18		Prepared: 12/17/24		Analyzed: 12/18/24				
Benzene	0.0864	0.00100	mg/L	0.100	ND	86.4	80-120			
Toluene	0.0751	0.00100	"	0.100	0.000560	74.5	80-120			QM-05
Ethylbenzene	0.0729	0.00100	"	0.100	0.00107	71.8	80-120			QM-05
Xylene (p/m)	0.143	0.00200	"	0.200	0.00144	70.7	80-120			QM-05
Xylene (o)	0.0621	0.00100	"	0.100	ND	62.1	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			

Matrix Spike Dup (P4L1713-MSD1)		Source: 4L16006-18		Prepared: 12/17/24		Analyzed: 12/18/24				
Benzene	0.0902	0.00100	mg/L	0.100	ND	90.2	80-120	4.25	20	
Toluene	0.0812	0.00100	"	0.100	0.000560	80.7	80-120	7.95	20	
Ethylbenzene	0.0854	0.00100	"	0.100	0.00107	84.3	80-120	16.0	20	
Xylene (p/m)	0.165	0.00200	"	0.200	0.00144	81.9	80-120	14.7	20	
Xylene (o)	0.0697	0.00100	"	0.100	ND	69.7	80-120	11.6	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	80-120			

Batch P4L1913 - * DEFAULT PREP *****

Blank (P4L1913-BLK1)				Prepared & Analyzed: 12/19/24						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0926		"	0.120		77.2	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.4	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4L1913 - * DEFAULT PREP *****

LCS (P4L1913-BS1)

Prepared & Analyzed: 12/19/24

Benzene	0.0961	0.00100	mg/L	0.100		96.1	80-120			
Toluene	0.0913	0.00100	"	0.100		91.3	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0900	0.00100	"	0.100		90.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0953		"	0.120		79.4	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		109	80-120			

LCS Dup (P4L1913-BSD1)

Prepared & Analyzed: 12/19/24

Benzene	0.0958	0.00100	mg/L	0.100		95.8	80-120	0.281	20	
Toluene	0.0906	0.00100	"	0.100		90.6	80-120	0.747	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120	1.03	20	
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120	0.124	20	
Xylene (o)	0.0898	0.00100	"	0.100		89.8	80-120	0.200	20	
Surrogate: 4-Bromofluorobenzene	0.0969		"	0.120		80.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		111	80-120			

Calibration Blank (P4L1913-CCB1)

Prepared & Analyzed: 12/19/24

Benzene	0.120		ug/l							
Toluene	0.170		"							
Ethylbenzene	0.380		"							
Xylene (p/m)	0.490		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0893		"	0.120		74.4	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			

Calibration Blank (P4L1913-CCB2)

Prepared & Analyzed: 12/19/24

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.410		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0916		"	0.120		76.3	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4L1913 - * DEFAULT PREP *****

Calibration Check (P4L1913-CCV1)

Prepared & Analyzed: 12/19/24

Benzene	0.0915	0.00100	mg/L	0.100		91.5	80-120			
Toluene	0.0802	0.00100	"	0.100		80.2	80-120			
Ethylbenzene	0.0801	0.00100	"	0.100		80.1	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.7	80-120			
Xylene (o)	0.0803	0.00100	"	0.100		80.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.0862		"	0.120		71.8	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.129		"	0.120		108	80-120			

Calibration Check (P4L1913-CCV2)

Prepared & Analyzed: 12/19/24

Benzene	0.0949	0.00100	mg/L	0.100		94.9	80-120			
Toluene	0.0882	0.00100	"	0.100		88.2	80-120			
Ethylbenzene	0.0852	0.00100	"	0.100		85.2	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.5	80-120			
Xylene (o)	0.0861	0.00100	"	0.100		86.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0946		"	0.120		78.8	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Calibration Check (P4L1913-CCV3)

Prepared: 12/19/24 Analyzed: 12/20/24

Benzene	0.0904	0.00100	mg/L	0.100		90.4	80-120			
Toluene	0.0831	0.00100	"	0.100		83.1	80-120			
Ethylbenzene	0.0812	0.00100	"	0.100		81.2	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.6	80-120			
Xylene (o)	0.0805	0.00100	"	0.100		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.0953		"	0.120		79.4	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		111	80-120			

Matrix Spike (P4L1913-MS1)

Source: 4L16014-05

Prepared: 12/19/24 Analyzed: 12/20/24

Benzene	0.103	0.00100	mg/L	0.100	ND	103	80-120			
Toluene	0.0956	0.00100	"	0.100	ND	95.6	80-120			
Ethylbenzene	0.104	0.00100	"	0.100	ND	104	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200	ND	103	80-120			
Xylene (o)	0.0914	0.00100	"	0.100	ND	91.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.0956		"	0.120		79.6	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4L1913 - *** DEFAULT PREP ***

Matrix Spike Dup (P4L1913-MSD1)	Source: 4L16014-05			Prepared: 12/19/24		Analyzed: 12/20/24				
Benzene	0.105	0.00100	mg/L	0.100	ND	105	80-120	2.11	20	
Toluene	0.0986	0.00100	"	0.100	ND	98.6	80-120	3.10	20	
Ethylbenzene	0.108	0.00100	"	0.100	ND	108	80-120	3.86	20	
Xylene (p/m)	0.213	0.00200	"	0.200	ND	107	80-120	3.47	20	
Xylene (o)	0.0950	0.00100	"	0.100	ND	95.0	80-120	3.84	20	
Surrogate: 4-Bromofluorobenzene	0.0968		"	0.120		80.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

12/20/2024

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

L: CH: W:

Phone: 432-686-7235

Project Manager: Kimble Thrash

Project Name: SRS 2009-039

Company Name: Etech Environmental & Safety Solutions, Inc.

Project #: SRS 2009-039

Company Address: P.O. Box 6228

Project Loc: Lea County, NM

City/State/Zip: Midland, TX 79711

PO #:

Telephone No: (432) 563-2200

Fax No: (432) 563-2213

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.com

(lab use only)																Analyze For:																	
ORDER #: 4216014																TCLP:																	
																TOTAL:																	
LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water GW = Groundwater NP=Non-Potable SL=Sludge S=Soil/Solid	BTEX 8021 B																RUSH TAT (Pre-Schedule) 24, 48, 72 hr
1	MW-1	-	-	12/14/24	1640		3			3						GW	3														X		
2	MW-2	-	-	12/14/24	1240		3			3						GW	3														X		
3	MW-3	-	-	12/14/24	1335		3			3						GW	3														X		
4	MW-4	-	-	12/14/24	1430		3			3						GW	3														X		
5	MW-5	-	-	12/14/24	1530		3			3						GW	3														X		
6	MW-6	-	-	12/14/24	1150		3			3						GW	3														X		
7	MW-7	-	-	12/14/24	1050		3			3						GW	3														X		
8	MW-8	-	-	12/14/24	0950		3			3						GW	3														X		
9	DUP-1	-	-	12/14/24	1641		3			3						GW	3														X		

Special Instructions: Please invoice directly to Plains A/P 333 Clay St., Houston, TX 77002 and reference the SRS number in the Project Name.

Relinquished by:	Date	Time	Received by:	Date	Time
	12/16/24	1603			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: PBE	Date	Time
				12/16/24	1603

Laboratory Comments:

- Sample Containers Intact?
- VOCs Free of Headspace?
- Labels on container(s)
- Custody seals on container(s)
- Custody seals on cooler(s)
- Sample Hand Delivered
- by Sampler/Client Rep. ?
- by Courier? UPS DHL FedEx Lone Star
- Temperature Upon Receipt:
- Received: 12/16/24 °C Thermometer: NCF
- Adjusted: 12/16/24 °C Factor: 13

Appendix B
Laboratory Analytical Reports
(Air Emissions)



ANALYTICAL REPORT

February 05, 2024

Revised Report

Plains All American Pipeline - ETECH

Sample Delivery Group: L1700540
Samples Received: 01/31/2024
Project Number: SRS #2009-039
Description: DCP Plant to Lea Station 6" #2
Site: SRS #2009-039
Report To: Kimble Thrash
PO Box 62228
Midland, TX 79711

Entire Report Reviewed By:

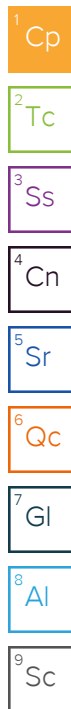
A handwritten signature in blue ink, reading "Lori Vahrenkamp".

Lori A Vahrenkamp
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
EFF-1 (013024) L1700540-01	5	⁴ Cn
Qc: Quality Control Summary	6	⁵ Sr
Volatile Organic Compounds (MS) by Method M18-Mod	6	
Gl: Glossary of Terms	8	⁶ Qc
Al: Accreditations & Locations	9	⁷ Gl
Sc: Sample Chain of Custody	10	⁸ Al
		⁹ Sc

EFF-1 (013024) L1700540-01 Air

Collected by
Kimble Thrash

Collected date/time
01/30/24 11:30

Received date/time
01/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG2216953	100	02/01/24 04:01	02/01/24 04:01	SDS	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method M18-Mod	WG2217971	200	02/01/24 17:35	02/01/24 17:35	GH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

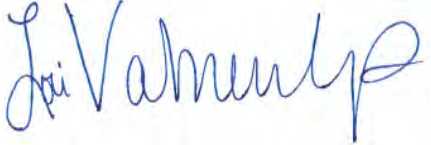
⁶Qc

⁷Gl

⁸Al

⁹Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Lori A Vahrenkamp
Project Manager

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Report Revision History

Level II Report - Version 1: 02/05/24 15:24

Project Narrative

Revised report issued 2/5/24 to correct the client sample ID to match the Chain-of-Custody.

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2216953
Toluene	108-88-3	92.10	100	377	12900	48600		200	WG2217971
Ethylbenzene	100-41-4	106	40.0	173	3310	14400		200	WG2217971
m&p-Xylene	179601-23-1	106	80.0	347	7560	32800		200	WG2217971
o-Xylene	95-47-6	106	40.0	173	2310	10000		200	WG2217971
Methyl tert-butyl ether	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2216953
TPH (GC/MS) Low Fraction	8006-61-9	101	40000	165000	264000	1090000		200	WG2217971
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		128				WG2216953
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2217971

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method M18-Mod

L1700540-01

Method Blank (MB)

(MB) R4028581-3 01/31/24 10:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Benzene	U		0.0715	0.200
Methyl tert-butyl ether	U		0.0647	0.200
(S) 1,4-Bromofluorobenzene	96.6			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4028581-1 01/31/24 09:17 • (LCSD) R4028581-2 01/31/24 10:06

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Benzene	3.75	3.75	3.73	100	99.5	70.0-130			0.535	25
Methyl tert-butyl ether	3.75	3.81	3.83	102	102	70.0-130			0.524	25
(S) 1,4-Bromofluorobenzene				102	101	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method M18-Mod

L1700540-01

Method Blank (MB)

(MB) R4028934-3 02/01/24 09:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Toluene	U		0.0870	0.500
Ethylbenzene	U		0.0835	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	40.8	⬇	39.7	200
(S) 1,4-Bromofluorobenzene	95.2			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4028934-1 02/01/24 08:52 • (LCSD) R4028934-2 02/01/24 09:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Toluene	3.75	3.89	3.89	104	104	70.0-130			0.000	25
Ethylbenzene	3.75	4.02	3.98	107	106	70.0-130			1.00	25
m&p-Xylene	7.50	8.30	8.12	111	108	70.0-130			2.19	25
o-Xylene	3.75	4.19	4.15	112	111	70.0-130			0.959	25
TPH (GC/MS) Low Fraction	188	187	188	99.5	100	70.0-130			0.533	25
(S) 1,4-Bromofluorobenzene				96.1	94.7	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

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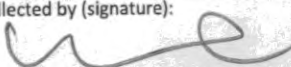
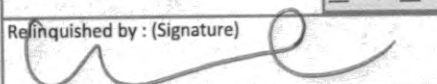

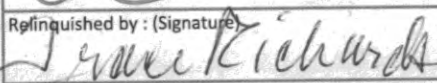
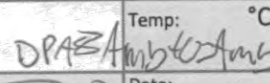
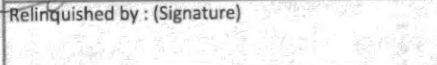
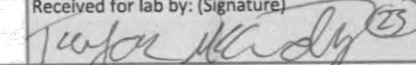
⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Company Name/Address: Plains All American Pipeline - ETECH PO Box 62228 Midland, TX 79711				Billing Information: Accounts Payable 333 Clay St Suite 1600 Houston, TX 77002				Analysis / Container / Preservative Pres Chk				Chain of Custody Page <u>1</u> of <u>1</u>	
												 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf SDG # <u>41700540</u> C029 Acctnum: PLAINSETECH Template: T246078 Prelogin: P1052420 PM: 3587 - Lori A Vahrenkamp PB: Shipped Via: FedEX Ground Remarks Sample # (lab only)	
Report to: Kimble Thrash				Email To: camille.bryant@plains.com;karolanne.hudgens				M18-MOD - BTEX Tedlar					
Project Description: DCP Plant to Lea Station 6" #2				City/State Collected: Lea County, New Mexico		Please Circle: PT MT CT ET							
Phone: (432) 894-9996		Client Project # SRS #2009-039		Lab Project # PLAINSETECH-NM GW									
Collected by (print): Kimble Thrash		Site/Facility ID # SRS #2009-039		P.O. #									
Collected by (signature): 		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #									
Immediately Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>		Date Results Needed		No. of Cntrs									
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time							
EFF-1 (013024)		Grab	Air	N/A	01-30-2024	1130							
1		X											
*** END OF COC ***													
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other													
Remarks:													
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier													
Tracking # <u>6426 8308 9247</u>													
Relinquished by: (Signature) 		Date: 1/30/24	Time: 1618	Received by: (Signature) 		Trip Blank Received: Yes / No HCL / MeOH TBR							
Relinquished by: (Signature) 		Date: 1/30/24	Time: 1730	Received by: (Signature) 		Temp: °C 1							
Relinquished by: (Signature) 		Date:	Time:	Received for lab by: (Signature) 		Date: 1-31-24 Time: 0900							
If preservation required by Login: Date/Time													
Hold:													
Condition: NCF <input checked="" type="checkbox"/> OK <input type="checkbox"/>													



ANALYTICAL REPORT

February 23, 2024

Plains All American Pipeline - ETECH

Sample Delivery Group: L1706443
Samples Received: 02/16/2024
Project Number: SRS #2009-039
Description: DCP Plant to Lea Station 6" #2
Site: SRS #2009-039
Report To: Kimble Thrash
PO Box 62228
Midland, TX 79711

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, reading "Lori Vahrenkamp".

Lori A Vahrenkamp
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
EFF-1 (021524) L1706443-01	5	⁴ Cn
Qc: Quality Control Summary	6	
Volatile Organic Compounds (MS) by Method M18-Mod	6	⁵ Sr
Gl: Glossary of Terms	8	
Al: Accreditations & Locations	9	⁶ Qc
Sc: Sample Chain of Custody	10	⁷ Gl
		⁸ Al
		⁹ Sc

SAMPLE SUMMARY

EFF-1 (021524) L1706443-01 Air

Collected by
Kimble Thrash

Collected date/time
02/15/24 09:15

Received date/time
02/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG2230114	20	02/21/24 00:08	02/21/24 00:08	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method M18-Mod	WG2231025	200	02/21/24 17:05	02/21/24 17:05	SDS	Mt. Juliet, TN

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Lori A Vahrenkamp
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG2230114
Toluene	108-88-3	92.10	100	377	15300	57600	Q	200	WG2231025
Ethylbenzene	100-41-4	106	40.0	173	2690	11700	Q	200	WG2231025
m&p-Xylene	179601-23-1	106	80.0	347	5650	24500	Q	200	WG2231025
o-Xylene	95-47-6	106	40.0	173	1600	6940	Q	200	WG2231025
Methyl tert-butyl ether	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG2230114
TPH (GC/MS) Low Fraction	8006-61-9	101	40000	165000	363000	1500000	Q	200	WG2231025
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		162		J1		WG2230114
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		108				WG2231025

Sample Narrative:
L1706443-01 WG2230114: Surrogate failure due to matrix interference

1Cp

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Volatile Organic Compounds (MS) by Method M18-Mod

L1706443-01

Method Blank (MB)

(MB) R4036238-3 02/20/24 10:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Benzene	U		0.0715	0.200
Methyl tert-butyl ether	U		0.0647	0.200
(S) 1,4-Bromofluorobenzene	99.3			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036238-1 02/20/24 09:34 • (LCSD) R4036238-2 02/20/24 10:13

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Benzene	3.75	4.19	4.26	112	114	70.0-130			1.66	25
Methyl tert-butyl ether	3.75	4.11	4.14	110	110	70.0-130			0.727	25
(S) 1,4-Bromofluorobenzene				95.3	97.1	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method M18-Mod

L1706443-01

Method Blank (MB)

(MB) R4036784-1 02/21/24 09:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Toluene	U		0.0870	0.500
Ethylbenzene	U		0.0835	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	43.5	⬇	39.7	200
(S) 1,4-Bromofluorobenzene	97.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036784-2 02/21/24 12:34 • (LCSD) R4036784-3 02/21/24 13:11

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Toluene	3.75	3.39	3.39	90.4	90.4	70.0-130			0.000	25
Ethylbenzene	3.75	3.39	3.41	90.4	90.9	70.0-130			0.588	25
m&p-Xylene	7.50	6.84	6.88	91.2	91.7	70.0-130			0.583	25
o-Xylene	3.75	3.40	3.43	90.7	91.5	70.0-130			0.878	25
TPH (GC/MS) Low Fraction	188	163	165	86.7	87.8	70.0-130			1.22	25
(S) 1,4-Bromofluorobenzene				101	100	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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Abbreviations and Definitions

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SDG	Sample Delivery Group.
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U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.

1Cp

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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
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¹Cp

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[illegible]



ANALYTICAL REPORT

March 12, 2024

Revised Report

Plains All American Pipeline - ETECH

Sample Delivery Group: L1709751
Samples Received: 02/28/2024
Project Number: SRS #2009-039
Description: DCP Plant to Lea Station 6" #2
Site: SRS #2009-039
Report To: Kimble Thrash
PO Box 62228
Midland, TX 79711

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, reading "Lori Vahrenkamp".

Lori A Vahrenkamp
Project Manager

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Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
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Sr: Sample Results	5	³ Ss
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Qc: Quality Control Summary	6	⁴ Cn
Volatile Organic Compounds (MS) by Method M18-Mod	6	⁵ Sr
Gl: Glossary of Terms	8	
Al: Accreditations & Locations	9	⁶ Qc
Sc: Sample Chain of Custody	10	⁷ Gl
		⁸ Al
		⁹ Sc

EFF-1 (022724) L1709751-01 Air

Collected by
Kimble Thrash

Collected date/time
02/27/24 09:30

Received date/time
02/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG2235749	100	02/28/24 19:53	02/28/24 19:53	SDS	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method M18-Mod	WG2238194	400	03/02/24 18:51	03/02/24 18:51	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

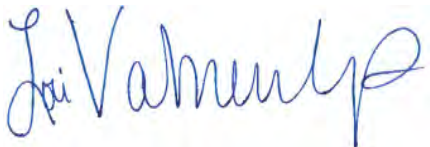
⁶Qc

⁷Gl

⁸Al

⁹Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Lori A Vahrenkamp
Project Manager

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Report Revision History

Level II Report - Version 1: 03/04/24 10:01

Project Narrative

Revised report issued 3/12/24 to correct client sample ID to reflect Chain-of-Custody.

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	20.0	63.9	91.1	291		100	WG2235749
Toluene	108-88-3	92.10	200	753	19300	72700		400	WG2238194
Ethylbenzene	100-41-4	106	20.0	86.7	4170	18100		100	WG2235749
m&p-Xylene	179601-23-1	106	40.0	173	9280	40200		100	WG2235749
o-Xylene	95-47-6	106	20.0	86.7	2520	10900		100	WG2235749
Methyl tert-butyl ether	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2235749
TPH (GC/MS) Low Fraction	8006-61-9	101	80000	330000	459000	1900000		400	WG2238194
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		125				WG2235749
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.8				WG2238194

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method M18-Mod

L1709751-01

Method Blank (MB)

(MB) R4039283-3 02/28/24 09:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Benzene	U		0.0715	0.200
Ethylbenzene	U		0.0835	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
Methyl tert-butyl ether	U		0.0647	0.200
(S) 1,4-Bromofluorobenzene	93.9			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4039283-1 02/28/24 09:00 • (LCSD) R4039283-2 02/28/24 09:29

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Benzene	3.75	3.85	3.85	103	103	70.0-130			0.000	25
Ethylbenzene	3.75	3.73	3.76	99.5	100	70.0-130			0.801	25
m&p-Xylene	7.50	7.58	7.65	101	102	70.0-130			0.919	25
o-Xylene	3.75	3.84	3.80	102	101	70.0-130			1.05	25
Methyl tert-butyl ether	3.75	3.84	3.75	102	100	70.0-130			2.37	25
(S) 1,4-Bromofluorobenzene				101	102	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method M18-Mod

L1709751-01

Method Blank (MB)

(MB) R4040789-3 03/02/24 08:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Toluene	U		0.0870	0.500
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	90.8			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4040789-1 03/02/24 07:03 • (LCSD) R4040789-2 03/02/24 07:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Toluene	3.75	4.04	4.01	108	107	70.0-130			0.745	25
TPH (GC/MS) Low Fraction	188	182	180	96.8	95.7	70.0-130			1.10	25
(S) 1,4-Bromofluorobenzene				97.3	95.6	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

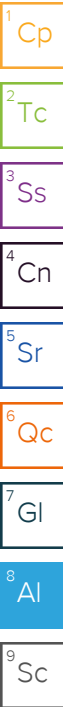
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



[illegible]



ANALYTICAL REPORT

April 02, 2024

Plains All American Pipeline - ETECH

Sample Delivery Group: L1718952
Samples Received: 03/27/2024
Project Number: SRS #2009-039
Description: DCP Plant to Lea Station 6" #2
Site: SRS #2009-039
Report To: Kimble Thrash
PO Box 62228
Midland, TX 79711

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, reading "Lori Vahrenkamp".

Lori A Vahrenkamp
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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EFF-1 (032524) L1718952-01	5	⁴ Cn
Qc: Quality Control Summary	6	
Volatile Organic Compounds (MS) by Method M18-Mod	6	⁵ Sr
Gl: Glossary of Terms	8	
Al: Accreditations & Locations	9	⁶ Qc
Sc: Sample Chain of Custody	10	⁷ Gl
		⁸ Al
		⁹ Sc

EFF-1 (032524) L1718952-01 Air

Collected by Robert Peters
Collected date/time 03/25/24 11:05
Received date/time 03/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG2255845	1	03/28/24 17:01	03/28/24 17:01	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method M18-Mod	WG2256561	20	03/29/24 16:27	03/29/24 16:27	SDS	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

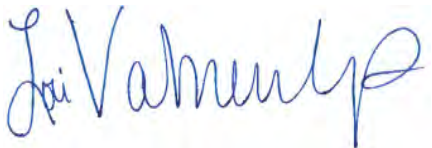
⁶Qc

⁷Gl

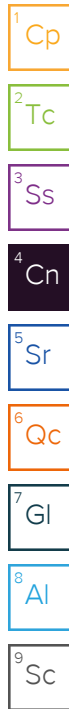
⁸Al

⁹Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Lori A Vahrenkamp
Project Manager



Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2255845
Toluene	108-88-3	92.10	10.0	37.7	1150	4330		20	WG2256561
Ethylbenzene	100-41-4	106	4.00	17.3	394	1710		20	WG2256561
m&p-Xylene	179601-23-1	106	8.00	34.7	1000	4340		20	WG2256561
o-Xylene	95-47-6	106	4.00	17.3	317	1370		20	WG2256561
Methyl tert-butyl ether	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2255845
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	21700	89600		20	WG2256561
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		280		J1		WG2255845
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		106				WG2256561

Sample Narrative:

L1718952-01 WG2255845: Surrogate failure due to sample matrix.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method M18-Mod

L1718952-01

Method Blank (MB)

(MB) R4051206-3 03/28/24 10:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Benzene	U		0.0715	0.200
Methyl tert-butyl ether	U		0.0647	0.200
(S) 1,4-Bromofluorobenzene	97.4			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4051206-1 03/28/24 08:58 • (LCSD) R4051206-2 03/28/24 09:38

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Benzene	3.75	4.43	4.47	118	119	70.0-130			0.899	25
Methyl tert-butyl ether	3.75	4.59	4.66	122	124	70.0-130			1.51	25
(S) 1,4-Bromofluorobenzene				101	103	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method M18-Mod

L1718952-01

Method Blank (MB)

(MB) R4051796-3 03/29/24 09:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Toluene	U		0.0870	0.500
Ethylbenzene	U		0.0835	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	43.9	⬇	39.7	200
(S) 1,4-Bromofluorobenzene	99.0			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4051796-1 03/29/24 08:43 • (LCSD) R4051796-2 03/29/24 09:14

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Toluene	3.75	3.73	3.75	99.5	100	70.0-130			0.535	25
Ethylbenzene	3.75	3.90	4.08	104	109	70.0-130			4.51	25
m&p-Xylene	7.50	7.88	8.31	105	111	70.0-130			5.31	25
o-Xylene	3.75	4.07	4.17	109	111	70.0-130			2.43	25
TPH (GC/MS) Low Fraction	188	178	175	94.7	93.1	70.0-130			1.70	25
(S) 1,4-Bromofluorobenzene				97.4	93.3	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
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Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
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Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn


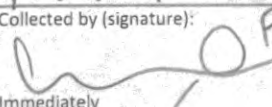
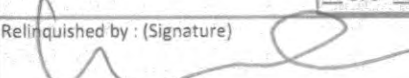
⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Company Name/Address: Plains All American Pipeline - ETECH PO Box 62228 Midland, TX 79711		Billing Information: Accounts Payable 333 Clay St Suite 1600 Houston, TX 77002		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 1				
Report to: Kimble Thrash		Email To: camille.bryant@plains.com;karolanne.hudgens@plains.com														 PEOPLE ADVANCING SCIENCE				
Project Description: DCP Plant to Lea Station 6" #2		City/State Collected: LEA COUNTY, NM		Please Circle: PT MT CT ET												MT JULIET, TN 12065 Lebanon Rd. Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf				
Phone: 432 894 9996		Client Project # SRS #2009-039		Lab Project # PLAINSETECH-NM GW												SDG # L1718952 C032				
Collected by (print): ROBERT PETERS		Site/Facility ID # SRS #2009-039		P.O. #												Acctnum: PLAINSETECH Template: T246078				
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #												Prelogin: P1052420 PM: 3587 - Lori A Vahrenkamp PB:				
Immediately Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>				Date Results Needed												Shipped Via: FedEX Ground				
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs											Remarks	Sample # (lab-only)	
EFF-1 (032524)		G	Air	N/A	3-25-24	1105	1	X												-01
END OF COC																				
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks:		pH _____ Temp _____ Flow _____ Other _____												Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				
Samples returned via: ____ UPS ____ FedEx ____ Courier _____		Tracking # 6426 8308 7199												Trip Blank Received: Yes <input checked="" type="checkbox"/> No HCL / MeOH TBR						
Relinquished by: (Signature) 		Date: 3/25/24	Time: 1632	Received by: (Signature) Trau Richards		Temp: DPA6 °C		Bottles Received:		If preservation required by Login: Date/Time										
Relinquished by: (Signature) Trau Richards		Date: 3/25/24	Time: 1703	Received by: (Signature) Trau Richards		Temp: Amb to 1 °F Amb 1		Bottles Received:		Hold: Condition: NCF <input checked="" type="checkbox"/> OK										
Relinquished by: (Signature) Trau Richards		Date: 3/25/24	Time: 0930	Received by: (Signature) Trau Richards		Temp: 3/27/24 0930		Bottles Received:												

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report Rev. 1

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: DCP #2
Project Number: 17472
Location: Lea County, NM
Lab Order Number: 4D16011



Current Certification

Report Date: 04/30/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: DCP #2 Project Number: 17472 Project Manager: Kimble Thrash
---	--

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (041624)	4D16011-01	Air	04/16/24 10:00	04-16-2024 14:22

This revised report corrects the incorrect sample ID.

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: DCP #2
Project Number: 17472
Project Manager: Kimble Thrash

EFF-1 (041624)
4D16011-01 (Air)

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	-----------------	--------------------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

EPA TO-15

Benzene	ND	0.0100	ppm	1	P4D2510	04/17/24 00:00	04/17/24 00:00	TO-15	SUB-8
Ethylbenzene	0.386	0.0100	ppm	1	P4D2510	04/17/24 00:00	04/17/24 00:00	TO-15	SUB-8
Xylene (p/m)	0.725	0.0100	ppm	1	P4D2510	04/17/24 00:00	04/17/24 00:00	TO-15	SUB-8
Xylene (o)	0.178	0.0100	ppm	1	P4D2510	04/17/24 00:00	04/17/24 00:00	TO-15	SUB-8
Toluene	2.36	0.0100	ppm	1	P4D2510	04/17/24 00:00	04/17/24 00:00	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: DCP #2
13000 West County Road 100	Project Number: 17472
Odessa TX, 79765	Project Manager: Kimble Thrash

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: DCP #2
Project Number: 17472
Project Manager: Kimble Thrash

Notes and Definitions

SUB-8 Subcontract of analyte/analysis to A&B Labs Houston.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 4/30/2024

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

L: _____ CH: _____ W: _____

Phone: 432-686-7235

Project Manager:

KIMBLE THRASH

Company Name:

ETECH

Company Address:

P.O. BOX 6228

City/State/Zip:

MIDLAND, TX 79711

Telephone No:

432 567 7200

Sampler Signature:

150 500 200

Fax No:

e-mail: kimble@etechenv.com

Project Name:

NP #2

Project #:

SPS 2009-030

Project Loc:

LEA COUNTY, NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

☒ Standard☐ TRRP☐ NPDES[illegible]

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-84
Project Number: SRS 2009-84
Location: Lea County, NM
Lab Order Number: 4E21015



Current Certification

Report Date: 06/04/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-84 Project Number: SRS 2009-84 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (052124)	4E21015-01	Air	05/21/24 09:15	05-21-2024 14:28

Btex by TO-15 analysis were subcontracted to A&B Houston. Their current certification can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/a&b_env.pdf

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-84
13000 West County Road 100	Project Number: SRS 2009-84
Odessa TX, 79765	Project Manager: Kimble Thrash

EFF-1 (052124)
4E21015-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

EPA TO-15									
Benzene	ND	2.50	ppm	1	P4F0315	05/25/24 00:00	05/25/24 00:00	TO-15	SUB-8
Ethylbenzene	ND	2.50	ppm	1	P4F0315	05/25/24 00:00	05/25/24 00:00	TO-15	SUB-8
Xylene (p/m)	ND	2.50	ppm	1	P4F0315	05/25/24 00:00	05/25/24 00:00	TO-15	SUB-8
Xylene (o)	ND	2.50	ppm	1	P4F0315	05/25/24 00:00	05/25/24 00:00	TO-15	SUB-8
Toluene	ND	2.50	ppm	1	P4F0315	05/25/24 00:00	05/25/24 00:00	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-84
13000 West County Road 100	Project Number: SRS 2009-84
Odessa TX, 79765	Project Manager: Kimble Thrash

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-84
Project Number: SRS 2009-84
Project Manager: Kimble Thrash

Notes and Definitions

SUB-8 Subcontract of analyte/analysis to A&B Labs Houston.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

6/4/2024

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

L: _____ CH: _____ W: _____

Phone: 432-686-7235

Project Manager: Kimble Thrash

Project Name: SRS 2009-039

Company Name: Etech Environmental & Safety Solutions, Inc.

Project #: SRS 2009-039

Company Address: P.O. Box 6228

Project Loc: Lea County, NMCity/State/Zip: Midland, TX 79711

PO #:

Telephone No: (432) 563-2200

Fax No: (432) 563-2213

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.com

[illegible]



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:										Analyze For:									
LAB # (lab use only)	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers								Matrix	TO-15	24 HOUR RUSH	STANDARD	
							ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	NaOH/Zn	NONE 500ML POLY 250 MIL POLY 500 ML MM AMBER GLASS	NONE					
	4E21015		5/21/2024	9:15		1								X	AIR		X		
Laboratory Comments:																			
Sample Containers Intact? Y N																			
VOCs Free of Headspace? Y N																			
Labels on container(s) Y N																			
Custody seals on container(s) Y N																			
Custody seals on cooler(s) Y N																			
Sample Hand Delivered Y N																			
by Sampler/Client Rep. ? Y N																			
by Courier? UPS DHL FedEx Lone Star																			
Temperature Upon Receipt:																			
Received: °C																			
Adjusted: °C Factor																			

Relinquished by:	5/21/2024	5:00 PM	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Analysis Report

Total Number of Pages: 14

Job ID : 24052487



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Subcontract

Report To :	Client Name:	Permian Basin Environmental Lab, LP	P.O.#:
	Attn:	Brent Barron	Sample Collected By:
	Client Address:	1400 Rankin Hwy	Date Collected: 05/21/24
	City, State, Zip:	Midland, Texas, 79701	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
4E21015	Air	24052487.01

A handwritten signature in black ink, appearing to read 'Senthilkumar Sevukan'.

Released By: Senthilkumar Sevukan
Title: Vice President Operations
Date: 05/30/2024

Analyst: Amit Bembde

A handwritten signature in black ink, appearing to read 'Amit Bembde'.




This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 05/22/2024 10:15



Job ID : 24052487

Date: 5/30/2024

Client Name :

Permian Basin Environmental Lab, LP

Attn : Brent Barron

Project Name:

Subcontract

Client Sample ID:

4E21015

Lab Sample ID:

24052487.01

Date Collected:

05/21/24

Sample Matrix:

Air


Time Collected:

09:15

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	0.2	13640.1	< 2.5000		05/25/24
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	0.2	17162.6	< 2.5000		05/25/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	0.2	19159.5	< 2.5000		05/25/24
	1,1,2-Trichloroethane	133.41	BRL	0.5	0.2	13641.1	< 2.5000		05/25/24
	1,1-Dichloroethane	98.96	BRL	0.5	0.2	10118.6	< 2.5000		05/25/24
	1,1-Dichloroethylene	96.94	BRL	0.5	0.2	< 9912.1	< 2.5000		05/25/24
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	0.2	18553.2	< 2.5000		05/25/24
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	0.2	12289.4	< 2.5000		05/25/24
	1,2-Dibromoethane	187.87	BRL	0.5	0.2	19209.6	< 2.5000		05/25/24
	1,2-Dichlorobenzene	147.00	BRL	0.5	0.2	15030.7	< 2.5000		05/25/24
	1,2-Dichloroethane	98.96	BRL	0.2	0.2	< 4047.4	< 1.0000		05/25/24
	1,2-Dichloropropane	112.99	BRL	0.5	0.2	11553.2	< 2.5000		05/25/24
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	0.2	17382.4	< 2.5000		05/25/24
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	0.2	12289.4	< 2.5000		05/25/24
	1,3-Butadiene	54.09	BRL	0.22	0.2	< 2433.5	< 1.1000		05/25/24
	1,3-Dichlorobenzene	147.00	BRL	0.5	0.2	15030.7	< 2.5000		05/25/24
	1,4-Dichlorobenzene	147.00	BRL	0.5	0.2	15030.7	< 2.5000		05/25/24
	2-Butanone	72.11	BRL	0.5	0.2	< 7373.2	< 2.5000		05/25/24
	4-Ethyltoluene	120	BRL	0.5	0.2	12269.9	< 2.5000		05/25/24
	Acetone ²	58.08	BRL	0.5	0.2	< 5938.7	< 2.5000		05/25/24
	Benzene	78.11	BRL	0.2	0.2	< 3194.7	< 1.0000		05/25/24
	Benzyl chloride	126.59	BRL	0.5	0.2	12943.8	< 2.5000		05/25/24
	Bromodichloromethane ¹	163.83	0.51	0.5	0.2	17086.6	2.5500		05/25/24
	Bromoform	252.75	BRL	0.5	0.2	25843.6	< 2.5000		05/25/24
	Bromomethane	94.94	BRL	0.5	0.2	< 9707.6	< 2.5000		05/25/24
	Carbon disulfide ²	76.14	BRL	0.5	0.2	< 7785.3	< 2.5000		05/25/24

ab-q212-0321



Job ID : 24052487

Date: 5/30/2024

Client Name :

Permian Basin Environmental Lab, LP

Attn : Brent Barron

Project Name:

Subcontract

Client Sample ID:

4E21015

Lab Sample ID:

24052487.01

Date Collected:

05/21/24

Sample Matrix:

Air


Time Collected:

09:15

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	Carbon tetrachloride	153.82	BRL	0.5	0.2	15728.0	< 2.5000		05/25/24
	Chlorobenzene	112.56	BRL	0.5	0.2	11509.2	< 2.5000		05/25/24
	Chloroethane	65.42	BRL	0.5	0.2	< 6689.2	< 2.5000		05/25/24
	Chloroform	119.38	BRL	0.5	0.2	12206.5	< 2.5000		05/25/24
	Chloromethane	50.49	BRL	0.5	0.2	< 5162.6	< 2.5000		05/25/24
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	0.2	< 9912.1	< 2.5000		05/25/24
	cis-1,3-Dichloropropene	110.97	BRL	0.5	0.2	11346.6	< 2.5000		05/25/24
	Cyclohexane	84.16	7.48	0.5	0.2	128735.5	37.4000		05/25/24
	Dibromochloromethane ²	208.29	BRL	0.5	0.2	21297.5	< 2.5000		05/25/24
	Dichlorodifluoromethane	120	BRL	0.5	0.2	12269.9	< 2.5000		05/25/24
	Ethanol ²	46.07	BRL	0.5	0.2	< 4710.6	< 2.5000		05/25/24
	Ethyl acetate ²	88.11	BRL	0.5	0.2	< 9009.2	< 2.5000		05/25/24
	Ethylbenzene	106.17	BRL	0.5	0.2	10855.8	< 2.5000		05/25/24
	Hexachlorobutadiene	258	BRL	0.5	0.2	26380.4	< 2.5000		05/25/24
	Isopropyl Alcohol ²	60.1	BRL	0.5	0.2	< 6145.2	< 2.5000		05/25/24
	m- & p-Xylenes	106.17	BRL	1	0.2	21711.7	< 5.0000		05/25/24
	Methyl Butyl Ketone ²	100	BRL	0.5	0.2	10224.9	< 2.5000		05/25/24
	Methylene chloride	84.93	BRL	0.5	0.2	< 8684.0	< 2.5000		05/25/24
	MIBK	100.16	BRL	0.5	0.2	10241.3	< 2.5000		05/25/24
	MTBE	88.15	BRL	0.5	0.2	< 9013.3	< 2.5000		05/25/24
	n-Heptane	100.21	7.78	0.5	0.2	159434.3	38.9000		05/25/24
	n-Hexane	86.18	5.41	0.5	0.2	95344.3	27.0500		05/25/24
	o-Xylene	106.17	BRL	0.5	0.2	10855.8	< 2.5000		05/25/24
	Propylene	42.08	BRL	0.5	0.2	< 4302.7	< 2.5000		05/25/24
	Styrene	104	BRL	0.5	0.2	10633.9	< 2.5000		05/25/24
	Tetrachloroethylene	165.83	BRL	0.5	0.2	16956.0	< 2.5000		05/25/24
	Tetrahydrofuran ²	72.11	BRL	0.5	0.2	< 7373.2	< 2.5000		05/25/24
	Toluene	92.14	BRL	0.5	0.2	< 9421.3	< 2.5000		05/25/24

ab-q212-0321



Job ID : 24052487

Date: 5/30/2024

Client Name :

Permian Basin Environmental Lab, LP

Attn : Brent Barron

Project Name:

Subcontract

Client Sample ID:

4E21015

Lab Sample ID:

24052487.01

Date Collected:

05/21/24

Sample Matrix:

Air

Time Collected:

09:15

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	trans-1,2-Dichloroethylene	96.94	BRL	0.5	0.2	< 9912.1	< 2.5000		05/25/24
	trans-1,3-Dichloropropene	110.97	BRL	0.5	0.2	< 11346.6	< 2.5000		05/25/24
	Trichloroethylene	131.39	BRL	0.5	0.2	< 13434.6	< 2.5000		05/25/24
	Trichlorofluoromethane	137.37	BRL	0.5	0.2	< 14046.0	< 2.5000		05/25/24
	Vinyl Acetate	86.09	BRL	0.5	0.2	< 8802.7	< 2.5000		05/25/24
	Vinyl Chloride	62.5	BRL	0.21	0.2	< 2684.0	< 1.0500		05/25/24
Total [VOC] calculated			21.18			400600.757	105.900		

EPA TO-- 15 Sample Analysis -- GC/MS



Lab ID	24052487.01	
Date Acquired	25 May 2024	2:38 pm
Analyst	AVB	
Sample Run ID	X052508.D	
Tedlar bag (cc)	6000	
Injection Volume (cc)	0.2	

Compound Name	CAS #	R.T.	M.W	Nanoliters	Vol.(L)	ug/l	ppm
Hexane, 2-methyl-	591-76-4	10.49	100	3.3	0.0002	67.485	16.500
Hexane, 3-methyl-	589-34-4	10.84	100	4.8	0.0002	98.160	24.000
cyclohexane, methyl-	108-87-2	12.7	98	16.8	0.0002	336.687	84.000
Heptane, 2-methyl-	592-27-8	14.369	114	3.5	0.0002	81.595	17.500
Cyclohexane, 1,3-dimethyl-, cis	638-04-0	14.885	112	4.61	0.0002	105.587	23.050



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: Method Blank

Analysis Date: 5/25/2024

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	g/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.

QUALITY CONTROL CERTIFICATE



Job ID : 24052487

Date : 5/30/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24052954

Created Date : 05/29/24

Created By : AVBembde

Samples in This QC Batch : 24052487.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
trans-1,2-Dichloroethylene	156-60-5	BRL	nL	1	0.5		
Dichlorodifluoromethane	75-71-8	BRL	nL	1	0.5		
Chloromethane	74-87-3	BRL	nL	1	0.5		
1,2-Dichlorotetrafluoroetha	76-14-2	BRL	nL	1	0.5		
Vinyl Chloride	75-01-4	BRL	nL	1	0.21		
Bromomethane	74-83-9	BRL	nL	1	0.5		
Chloroethane	75-00-3	BRL	nL	1	0.5		
Trichlorofluoromethane	75-69-4	BRL	nL	1	0.5		
1,1-Dichloroethylene	75-35-4	BRL	nL	1	0.5		
Methylene chloride	75-09-2	BRL	nL	1	0.5		
1,1,2-Trichloro-1,2,2-trifluo	76-13-1	BRL	nL	1	0.5		
1,1-Dichloroethane	75-34-3	BRL	nL	1	0.5		
cis-1,2-Dichloroethylene	156-59-2	BRL	nL	1	0.5		
Chloroform	67-66-3	BRL	nL	1	0.5		
1,2-Dichloroethane	107-06-2	BRL	nL	1	0.2		
1,1,1-Trichloroethane	71-55-6	BRL	nL	1	0.5		
Benzene	71-43-2	BRL	nL	1	0.2		
Carbon tetrachloride	56-23-5	BRL	nL	1	0.5		
1,2-Dichloropropane	78-87-5	BRL	nL	1	0.5		
Trichloroethylene	79-01-6	BRL	nL	1	0.5		
cis-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5		
trans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5		
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5		
Toluene	108-88-3	BRL	nL	1	0.5		
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5		
Tetrachloroethylene	127-18-4	BRL	nL	1	0.5		
Chlorobenzene	108-90-7	BRL	nL	1	0.5		
Ethylbenzene	100-41-4	BRL	nL	1	0.5		
m- & p-Xylenes	179601-23-1	BRL	nL	1	1		
Styrene	100-42-5	BRL	nL	1	0.5		
o-Xylene	95-47-6	BRL	nL	1	0.5		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	nL	1	0.5		
1,3,5-Trimethylbenzene	108-67-8	BRL	nL	1	0.5		
1,2,4-Trimethylbenzene	95-63-6	BRL	nL	1	0.5		
1,3-Dichlorobenzene	541-73-1	BRL	nL	1	0.5		
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5		
1,2-Dichlorobenzene	95-50-1	BRL	nL	1	0.5		
1,2,4-Trichlorobenzene	120-82-1	BRL	nL	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	nL	1	0.5		
1,3-Butadiene	106-99-0	BRL	nL	1	0.22		
2-Butanone	78-93-3	BRL	nL	1	0.5		
4-Ethyltoluene	622-96-8	BRL	nL	1	0.5		

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24052487

Date : 5/30/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24052954

Created Date : 05/29/24

Created By : AVBembde

Samples in This QC Batch : 24052487.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Acetone	67-64-1	BRL	nL	1	0.5	
Benzyl chloride	100-44-7	BRL	nL	1	0.5	
Bromodichloromethane	75-27-4	BRL	nL	1	0.5	
Bromoform	75-25-2	BRL	nL	1	0.5	
Carbon disulfide	75-15-0	BRL	nL	1	0.5	
Cyclohexane	110-82-7	BRL	nL	1	0.5	
Dibromochloromethane	124-48-1	BRL	nL	1	0.5	
Ethanol	64-17-5	BRL	nL	1	0.5	
Ethyl acetate	141-78-6	BRL	nL	1	0.5	
n-Heptane	142-82-5	BRL	nL	1	0.5	
n-Hexane	110-54-3	BRL	nL	1	0.5	
Isopropyl Alcohol	67-63-0	BRL	nL	1	0.5	
Methyl Butyl Ketone	591-78-6	BRL	nL	1	0.5	
MIBK	108-10-1	BRL	nL	1	0.5	
MTBE	1634-04-4	BRL	nL	1	0.5	
Propylene	115-07-1	BRL	nL	1	0.5	
Tetrahydrofuran	109-99-9	BRL	nL	1	0.5	
Vinyl Acetate	108-05-4	BRL	nL	1	0.5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	5	5.04	101	5	4.97	99.4	1.4	30	70-130	
Dichlorodifluoromethane	5	5.46	109	5	5.38	108	1.5	30	59-134	
Chloromethane	5	5.36	107	5	5.30	106	1.1	30	55-132	
1,2-Dichlorotetrafluoroetha	5	5.43	109	5	5.36	107	1.3	30	63-142	
Vinyl Chloride	5	5.00	100	5	4.95	99	1	30	61-139	
Bromomethane	5	6.64	133	5	6.48	130	2.4	30	63-134	
Chloroethane	5	5.38	108	5	5.30	106	1.5	30	63-127	
Trichlorofluoromethane	5	5.45	109	5	5.37	107	1.5	30	62-130	
1,1-Dichloroethylene	5	5.30	106	5	5.23	105	1.3	30	61-133	
Methylene chloride	5	5.48	110	5	5.40	108	1.5	30	62-117	
1,1,2-Trichloro-1,2,2-trifluo	5	5.32	106	5	5.22	104	1.9	30	60-131	
1,1-Dichloroethane	5	5.33	107	5	5.27	105	1.1	30	68-126	
cis-1,2-Dichloroethylene	5	5.28	106	5	5.23	105	1	30	70-131	
Chloroform	5	5.45	109	5	5.38	108	1.3	30	68-134	
1,2-Dichloroethane	5	4.93	98.6	5	4.89	97.8	0.8	30	65-132	
1,1,1-Trichloroethane	5	5.01	100	5	4.92	98.4	1.8	30	68-132	
Benzene	5	5.23	105	5	5.17	103	1.2	30	69-119	
Carbon tetrachloride	5	5.08	102	5	5.01	100	1.4	30	68-132	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24052487

Date : 5/30/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24052954

Created Date : 05/29/24

Created By : AVBembde

Samples in This QC Batch : 24052487.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dichloropropane	5	5.24	105	5	5.13	103	2.1	30	69-123	
Trichloroethylene	5	5.36	107	5	5.31	106	0.9	30	71-123	
cis-1,3-Dichloropropene	5	5.14	103	5	5.04	101	2	30	70-128	
trans-1,3-Dichloropropene	5	5.04	101	5	4.98	99.6	1.2	30	75-133	
1,1,2-Trichloroethane	5	5.33	107	5	5.30	106	0.6	30	73-119	
Toluene	5	5.16	103	5	5.12	102	0.8	30	62-127	
1,2-Dibromoethane	5	5.31	106	5	5.24	105	1.3	30	74-122	
Tetrachloroethylene	5	5.07	101	5	5.00	100	1.4	30	66-124	
Chlorobenzene	5	5.75	115	5	5.64	113	1.9	30	70-119	
Ethylbenzene	5	5.78	116	5	5.70	114	1.4	30	70-124	
m- & p-Xylenes	10	11.4	114	10	11.2	112	1.9	30	61-134	
Styrene	5	5.68	114	5	5.58	112	1.8	30	73-127	
o-Xylene	5	5.72	114	5	5.66	113	1.1	30	67-125	
1,1,2,2-Tetrachloroethane	5	6.15	123	5	6.08	122	1.1	30	65-127	
1,3,5-Trimethylbenzene	5	5.92	118	5	5.86	117	1	30	67-130	
1,2,4-Trimethylbenzene	5	5.88	118	5	5.79	116	1.5	30	66-132	
1,3-Dichlorobenzene	5	5.99	120	5	5.92	118	1.2	30	65-130	
1,4-Dichlorobenzene	5	5.86	117	5	5.82	116	0.7	30	60-131	
1,2-Dichlorobenzene	5	5.80	116	5	5.78	116	0.3	30	63-129	
1,2,4-Trichlorobenzene	5	5.73	115	5	5.86	117	2.2	30	41-142	
Hexachlorobutadiene	5	5.89	118	5	6.00	120	1.8	30	56-138	
Propylene	5	5.23	105	5	5.14	103	1.7	30	57-136	
1,3-Butadiene	5	4.92	98.4	5	5.74	115	15.4	30	60-140	
Ethanol	5	4.26	85.2	5	4.51	90.2	5.7	30	59-133	
Acetone	5	5.09	102	5	5.08	102	0.2	30	58-128	
Isopropyl Alcohol	5	5.08	102	5	5.03	101	1	30	52-134	
Carbon disulfide	5	5.56	111	5	5.48	110	1.4	30	57-134	
MTBE	5	4.94	98.8	5	4.84	96.8	2	30	66-129	
2-Butanone	5	5.31	106	5	5.25	105	1.1	30	67-130	
Ethyl acetate	5	5.53	111	5	5.48	110	0.9	30	65-128	
n-Hexane	5	5.33	107	5	5.29	106	0.8	30	63-131	
Tetrahydrofuran	5	5.27	105	5	5.18	104	1.7	30	60-123	
Cyclohexane	5	5.09	102	5	5.06	101	0.6	30	70-117	
n-Heptane	5	5.10	102	5	5.04	101	1.2	30	69-131	
MIBK	5	5.28	106	5	5.20	104	1.5	30	67-130	
Methyl Butyl Ketone	5	5.17	103	5	4.91	98.2	5.2	30	60-140	
Bromoform	5	5.86	117	5	5.77	115	1.5	30	66-139	
4-Ethyltoluene	5	5.93	119	5	5.85	117	1.4	30	67-129	
Benzyl chloride	5	5.67	113	5	5.65	113	0.4	30	50-147	
Bromodichloromethane	5	5.17	103	5	5.11	102	1.2	30	72-128	
Dibromochloromethane	5	5.15	103	5	5.07	101	1.6	30	70-130	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24052487

Date : 5/30/2024

Analysis : Volatile Organic Compounds in Air by GCMS	Method : EPA TO-15	Reporting Units : nL
QC Batch ID : Qb24052954	Created Date : 05/29/24	Created By : AVBembde
Samples in This QC Batch : 24052487.01		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Vinyl Acetate	5	4.97	99.4	5	4.94	98.8	0.6	30	56-139	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 24052487

Date: 5/30/2024

General Term Definition

Back-Wt	Back Weight	MQL	Unadjusted Minimum Quantitation Limit
BRL	Below Reporting Limit	Post-Wt	Post Weight
cfu	colony-forming units	ppm	parts per million
Conc.	Concentration	Pre-Wt	Previous Weight
D.F.	Dilution Factor	Q	Qualifier
Front-Wt	Front Weight	RegLimit	Regulatory Limit
J	Estimation. Below calibration range but above MDL	RLU	Relative Light Unit
LCS	Laboratory Check Standard	RPD	Relative Percent Difference
LCSD	Laboratory Check Standard Duplicate	RptLimit	Reporting Limit
LOD	Limit of detection adjusted for %M + DF	SDL	Sample Detection Limit
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit

Qualifier Definition



Sample Condition Checklist

A&B JobID : 24052487		Date Received : 05/22/2024		Time Received : 10:15AM	
Client Name : Permian Basin Environmental Lab, LP					
Temperature : 24.1°C		Sample pH : NA			
Thermometer ID : 230292880		pH Paper ID : NA			
Perservative :		Lot# :			
	Check Points	Yes	No	N/A	
1.	Cooler Seal present and signed.			X	
2.	Sample(s) in a cooler.		X		
3.	If yes, ice in cooler.			X	
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If No comment)	X			
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <div style="display: flex; justify-content: space-around; font-size: small;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> </div>				
9.	Samples were received in appropriate container(s)	X			
10.	Sample(s) were received with Proper preservative			X	
11.	All samples were tagged or labeled.	X			
12.	Sample ID labels match C-O-C ID's.	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received with in the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	

Comments : Include actions taken to resolve discrepancies/problem:

Other: Air (Clear Tedlar Bag). ~EV 5/22/2024

Brought by : FedEx

Received by : EValdez

Check in by/date : EValdez / 05/22/2024

ab-s005-1123

Phone : 713-453-6060

www.ablabs.com

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard

☐ TRRP

☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

ORIGIN ID:MAFA (432) 686-7235
BRENT BARRON
PBE LAB
1400 RANKIN HWY

SHIP DATE: 21MAY24
ACTWGT: 2.00 LB
CAD: 107136846/INET4535
DIMS: 13x9x9 IN

MIDLAND, TX 79701
UNITED STATES US

BILL SENDER

TO: **SAMPLE RECEIVING**

A & B ENVIRONMENTAL SERVICES
10100 EAST FREEWAY SUITE 100

HOUSTON TX 77029

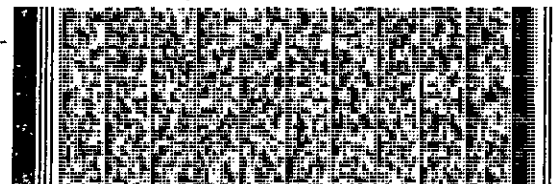
(713) 453-6060

REF:

INV:

PO:

DEPT:



FedEx
Express



WED - 22 MAY 5:00P
STANDARD OVERNIGHT

TRK#

0201

7764 8980 2769

AB HBYA

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TX-US IAH



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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Location: Lea County, NM
Lab Order Number: 4F26022



Current Certification

Report Date: 07/12/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (052124)	4F26022-01	Air	06/26/24 08:30	06-26-2024 14:36

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

EFF-1 (052124)
4F26022-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

EPA TO-15									
Benzene	ND	2.50	ppm	1	P4G1201	06/28/24 00:00	06/28/24 00:00	TO-15	
Ethylbenzene	ND	2.50	ppm	1	P4G1201	06/28/24 00:00	06/28/24 00:00	TO-15	
Xylene (p/m)	ND	5.00	ppm	1	P4G1201	06/28/24 00:00	06/28/24 00:00	TO-15	
Xylene (o)	ND	2.50	ppm	1	P4G1201	06/28/24 00:00	06/28/24 00:00	TO-15	
Toluene	8.85	2.50	ppm	1	P4G1201	06/28/24 00:00	06/28/24 00:00	TO-15	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Notes and Definitions

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

7/12/2024

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

Laboratory Analysis Report

Total Number of Pages: 15

Job ID : 24063189



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Subcontract

Report To :	Client Name:	Permian Basin Environmental Lab, LP	P.O.#:
	Attn:	Brent Barron	Sample Collected By:
	Client Address:	1400 Rankin Hwy	Date Collected: 06/26/24
	City, State, Zip:	Midland, Texas, 79701	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
4F26022	Air	24063189.01

A handwritten signature in black ink, appearing to read 'Senthilkumar Sevukan'.

Released By: Senthilkumar Sevukan
Title: Vice President Operations
Date: 07/10/2024

Analyst: Amit Bembde

A handwritten signature in black ink, appearing to read 'Amit Bembde'.




This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 06/28/2024 10:00



Job ID : 24063189

Date: 7/10/2024

Client Name :

Permian Basin Environmental Lab, LP

Attn : Brent Barron

Project Name:

Subcontract

Client Sample ID:

4F26022

Lab Sample ID:

24063189.01

Date Collected:

06/26/24

Sample Matrix:

Air


Time Collected:

08:30

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	0.2	13640.1	< 2.5000		06/28/24
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	0.2	17162.6	< 2.5000		06/28/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	0.2	19159.5	< 2.5000		06/28/24
	1,1,2-Trichloroethane	133.41	BRL	0.5	0.2	13641.1	< 2.5000		06/28/24
	1,1-Dichloroethane	98.96	BRL	0.5	0.2	10118.6	< 2.5000		06/28/24
	1,1-Dichloroethylene	96.94	BRL	0.5	0.2	< 9912.1	< 2.5000		06/28/24
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	0.2	18553.2	< 2.5000		06/28/24
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	0.2	12289.4	< 2.5000		06/28/24
	1,2-Dibromoethane	187.87	BRL	0.5	0.2	19209.6	< 2.5000		06/28/24
	1,2-Dichlorobenzene	147.00	BRL	0.5	0.2	15030.7	< 2.5000		06/28/24
	1,2-Dichloroethane	98.96	BRL	0.2	0.2	< 4047.4	< 1.0000		06/28/24
	1,2-Dichloropropane	112.99	BRL	0.5	0.2	11553.2	< 2.5000		06/28/24
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	0.2	17382.4	< 2.5000		06/28/24
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	0.2	12289.4	< 2.5000		06/28/24
	1,3-Butadiene	54.09	BRL	0.22	0.2	< 2433.5	< 1.1000 V7		06/28/24
	1,3-Dichlorobenzene	147.00	BRL	0.5	0.2	15030.7	< 2.5000		06/28/24
	1,4-Dichlorobenzene	147.00	BRL	0.5	0.2	15030.7	< 2.5000		06/28/24
	2-Butanone	72.11	BRL	0.5	0.2	< 7373.2	< 2.5000		06/28/24
	4-Ethyltoluene	120	BRL	0.5	0.2	12269.9	< 2.5000		06/28/24
	Acetone ²	58.08	BRL	0.5	0.2	< 5938.7	< 2.5000		06/28/24
	Benzene	78.11	BRL	0.2	0.2	< 3194.7	< 1.0000		06/28/24
	Benzyl chloride	126.59	BRL	0.5	0.2	12943.8	< 2.5000		06/28/24
	Bromodichloromethane ¹	163.83	BRL	0.5	0.2	16751.5	< 2.5000		06/28/24
	Bromoform	252.75	BRL	0.5	0.2	25843.6	< 2.5000		06/28/24
	Bromomethane	94.94	BRL	0.5	0.2	< 9707.6	< 2.5000		06/28/24
	Carbon disulfide ²	76.14	BRL	0.5	0.2	< 7785.3	< 2.5000		06/28/24

ab-q212-0321




Job ID : 24063189

Date: 7/10/2024

Client Name :		Permian Basin Environmental Lab, LP						Attn : Brent Barron	
Project Name:		Subcontract							
Client Sample ID:		4F26022				Lab Sample ID:		24063189.01	
Date Collected:		06/26/24				Sample Matrix:		Air	
Time Collected:		08:30							
Other Information:									
Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	Carbon tetrachloride	153.82	BRL	0.5	0.2	15728.0	< 2.5000		06/28/24
	Chlorobenzene	112.56	BRL	0.5	0.2	11509.2	< 2.5000		06/28/24
	Chloroethane	65.42	BRL	0.5	0.2	< 6689.2	< 2.5000		06/28/24
	Chloroform	119.38	BRL	0.5	0.2	12206.5	< 2.5000		06/28/24
	Chloromethane	50.49	BRL	0.5	0.2	< 5162.6	< 2.5000		06/28/24
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	0.2	< 9912.1	< 2.5000		06/28/24
	cis-1,3-Dichloropropene	110.97	BRL	0.5	0.2	11346.6	< 2.5000		06/28/24
	Cyclohexane	84.16	0.78	0.5	0.2	13424.3	3.9000		06/28/24
	Dibromochloromethane ²	208.29	BRL	0.5	0.2	21297.5	< 2.5000		06/28/24
	Dichlorodifluoromethane	120	BRL	0.5	0.2	12269.9	< 2.5000		06/28/24
	Ethanol ²	46.07	BRL	0.5	0.2	< 4710.6	< 2.5000		06/28/24
	Ethyl acetate ²	88.11	BRL	0.5	0.2	< 9009.2	< 2.5000		06/28/24
	Ethylbenzene	106.17	BRL	0.5	0.2	10855.8	< 2.5000		06/28/24
	Hexachlorobutadiene	258	BRL	0.5	0.2	26380.4	< 2.5000		06/28/24
	Isopropyl Alcohol ²	60.1	BRL	0.5	0.2	< 6145.2	< 2.5000		06/28/24
	m- & p-Xylenes	106.17	BRL	1	0.2	21711.7	< 5.0000		06/28/24
	Methyl Butyl Ketone ²	100	BRL	0.5	0.2	10224.9	< 2.5000		06/28/24
	Methylene chloride	84.93	BRL	0.5	0.2	< 8684.0	< 2.5000		06/28/24
	MIBK	100.16	BRL	0.5	0.2	10241.3	< 2.5000		06/28/24
	MTBE	88.15	BRL	0.5	0.2	< 9013.3	< 2.5000		06/28/24
	n-Heptane	100.21	6.50	0.5	0.2	133203.5	32.5000		06/28/24
	n-Hexane	86.18	BRL	0.5	0.2	< 8811.9	< 2.5000		06/28/24
	o-Xylene	106.17	BRL	0.5	0.2	10855.8	< 2.5000		06/28/24
	Propylene	42.08	BRL	0.5	0.2	< 4302.7	< 2.5000		06/28/24
	Styrene	104	BRL	0.5	0.2	10633.9	< 2.5000		06/28/24
	Tetrachloroethylene	165.83	BRL	0.5	0.2	16956.0	< 2.5000		06/28/24
	Tetrahydrofuran ²	72.11	BRL	0.5	0.2	< 7373.2	< 2.5000		06/28/24
	Toluene	92.14	1.77	0.5	0.2	33351.3	8.8500		06/28/24

ab-q212-0321



Job ID : 24063189

Date: 7/10/2024

Client Name :		Permian Basin Environmental Lab, LP						Attn : Brent Barron	
Project Name:		Subcontract							
Client Sample ID:		4F26022				Lab Sample ID:		24063189.01	
Date Collected:		06/26/24				Sample Matrix:		Air	
Time Collected:		08:30							
Other Information:									
Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	trans-1,2-Dichloroethylene	96.94	BRL	0.5	0.2	< 9912.1	< 2.5000		06/28/24
	trans-1,3-Dichloropropene	110.97	BRL	0.5	0.2	< 11346.6	< 2.5000		06/28/24
	Trichloroethylene	131.39	BRL	0.5	0.2	< 13434.6	< 2.5000		06/28/24
	Trichlorofluoromethane	137.37	BRL	0.5	0.2	< 14046.0	< 2.5000		06/28/24
	Vinyl Acetate	86.09	BRL	0.5	0.2	< 8802.7	< 2.5000		06/28/24
	Vinyl Chloride	62.5	BRL	0.21	0.2	< 2684.0	< 1.0500		06/28/24
Total [VOC] calculated			9.05			179979.059	45.250		

EPA TO-- 15 Sample Analysis -- GC/MS



Lab ID	24063189.01	
Date Acquired	28 Jun 2024 10:11 pm	
Analyst	AVB	
Sample Run ID	X062808.D	
Tedlar bag (cc)	1000	
Injection Volume (cc)	0.2	

Compound Name	CAS #	R.T.	M.W	Nanoliters	Vol.(L)	ug/l	ppm
Hexane, 2-methyl-	591-76-4	10.49	100	1	0.0002	20.450	5.000
Hexane, 3-methyl-	589-34-4	10.84	100	1.6	0.0002	32.720	8.000
cyclohexane, methyl-	108-87-2	12.7	98	8	0.0002	160.327	40.000
Heptane, 2-methyl-	592-27-8	14.369	114	2	0.0002	46.626	10.000
Heptane, 3-methyl-	589-81-1	14.67	100	1.1	0.0002	22.495	5.500
Cyclohexane, 1,3-dimethyl-, cis	638-4-0	14.885	112	2.02	0.0002	46.266	10.100
Octane	111-65-9	15.61	114	2.4	0.0002	55.951	12.000



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: METHOD BLANK

Analysis Date: 6/28/2024

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	µg/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.

QUALITY CONTROL CERTIFICATE



Job ID : 24063189

Date : 7/10/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24070957

Created Date : 07/09/24

Created By : AVBembde

Samples in This QC Batch : 24063189.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
trans-1,2-Dichloroethylene	156-60-5	BRL	nL	1	0.5		
Dichlorodifluoromethane	75-71-8	BRL	nL	1	0.5		
Chloromethane	74-87-3	BRL	nL	1	0.5		
1,2-Dichlorotetrafluoroetha	76-14-2	BRL	nL	1	0.5		
Vinyl Chloride	75-01-4	BRL	nL	1	0.21		
Bromomethane	74-83-9	BRL	nL	1	0.5		
Chloroethane	75-00-3	BRL	nL	1	0.5		
Trichlorofluoromethane	75-69-4	BRL	nL	1	0.5		
1,1-Dichloroethylene	75-35-4	BRL	nL	1	0.5		
Methylene chloride	75-09-2	BRL	nL	1	0.5		
1,1,2-Trichloro-1,2,2-trifluo	76-13-1	BRL	nL	1	0.5		
1,1-Dichloroethane	75-34-3	BRL	nL	1	0.5		
cis-1,2-Dichloroethylene	156-59-2	BRL	nL	1	0.5		
Chloroform	67-66-3	BRL	nL	1	0.5		
1,2-Dichloroethane	107-06-2	BRL	nL	1	0.2		
1,1,1-Trichloroethane	71-55-6	BRL	nL	1	0.5		
Benzene	71-43-2	BRL	nL	1	0.2		
Carbon tetrachloride	56-23-5	BRL	nL	1	0.5		
1,2-Dichloropropane	78-87-5	BRL	nL	1	0.5		
Trichloroethylene	79-01-6	BRL	nL	1	0.5		
cis-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5		
trans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5		
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5		
Toluene	108-88-3	BRL	nL	1	0.5		
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5		
Tetrachloroethylene	127-18-4	BRL	nL	1	0.5		
Chlorobenzene	108-90-7	BRL	nL	1	0.5		
Ethylbenzene	100-41-4	BRL	nL	1	0.5		
m- & p-Xylenes	179601-23-1	BRL	nL	1	1		
Styrene	100-42-5	BRL	nL	1	0.5		
o-Xylene	95-47-6	BRL	nL	1	0.5		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	nL	1	0.5		
1,3,5-Trimethylbenzene	108-67-8	BRL	nL	1	0.5		
1,2,4-Trimethylbenzene	95-63-6	BRL	nL	1	0.5		
1,3-Dichlorobenzene	541-73-1	BRL	nL	1	0.5		
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5		
1,2-Dichlorobenzene	95-50-1	BRL	nL	1	0.5		
1,2,4-Trichlorobenzene	120-82-1	BRL	nL	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	nL	1	0.5		
1,3-Butadiene	106-99-0	BRL	nL	1	0.22		
2-Butanone	78-93-3	BRL	nL	1	0.5		
4-Ethyltoluene	622-96-8	BRL	nL	1	0.5		

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24063189

Date : 7/10/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24070957

Created Date : 07/09/24

Created By : AVBembde

Samples in This QC Batch : 24063189.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Acetone	67-64-1	BRL	nL	1	0.5	
Benzyl chloride	100-44-7	BRL	nL	1	0.5	
Bromodichloromethane	75-27-4	BRL	nL	1	0.5	
Bromoform	75-25-2	BRL	nL	1	0.5	
Carbon disulfide	75-15-0	BRL	nL	1	0.5	
Cyclohexane	110-82-7	BRL	nL	1	0.5	
Dibromochloromethane	124-48-1	BRL	nL	1	0.5	
Ethanol	64-17-5	BRL	nL	1	0.5	
Ethyl acetate	141-78-6	BRL	nL	1	0.5	
n-Heptane	142-82-5	BRL	nL	1	0.5	
n-Hexane	110-54-3	BRL	nL	1	0.5	
Isopropyl Alcohol	67-63-0	BRL	nL	1	0.5	
Methyl Butyl Ketone	591-78-6	BRL	nL	1	0.5	
MIBK	108-10-1	BRL	nL	1	0.5	
MTBE	1634-04-4	BRL	nL	1	0.5	
Propylene	115-07-1	BRL	nL	1	0.5	
Tetrahydrofuran	109-99-9	BRL	nL	1	0.5	
Vinyl Acetate	108-05-4	BRL	nL	1	0.5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	5	5.30	106	5	5.29	106	0.2	30	70-130	
Dichlorodifluoromethane	5	5.20	104	5	5.14	103	1.2	30	59-134	
Chloromethane	5	5.37	107	5	5.31	106	1.1	30	55-132	
1,2-Dichlorotetrafluoroetha	5	4.86	97.2	5	4.80	96	1.2	30	63-142	
Vinyl Chloride	5	4.16	83.2	5	4.12	82.4	1	30	61-139	
Bromomethane	5	5.02	100	5	5.15	103	2.6	30	63-134	
Chloroethane	5	5.37	107	5	5.39	108	0.4	30	63-127	
Trichlorofluoromethane	5	5.04	101	5	5.00	100	0.8	30	62-130	
1,1-Dichloroethylene	5	5.21	104	5	5.19	104	0.4	30	61-133	
Methylene chloride	5	5.29	106	5	5.29	106	0	30	62-117	
1,1,2-Trichloro-1,2,2-trifluo	5	5.24	105	5	5.20	104	0.8	30	60-131	
1,1-Dichloroethane	5	5.37	107	5	5.36	107	0.2	30	68-126	
cis-1,2-Dichloroethylene	5	5.12	102	5	5.10	102	0.4	30	70-131	
Chloroform	5	5.14	103	5	5.10	102	0.8	30	68-134	
1,2-Dichloroethane	5	4.89	97.8	5	4.87	97.4	0.4	30	65-132	
1,1,1-Trichloroethane	5	4.88	97.6	5	4.83	96.6	1	30	68-132	
Benzene	5	5.20	104	5	5.16	103	0.8	30	69-119	
Carbon tetrachloride	5	4.80	96	5	4.75	95	1	30	68-132	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24063189

Date : 7/10/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24070957

Created Date : 07/09/24

Created By : AVBembde

Samples in This QC Batch : 24063189.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dichloropropane	5	5.32	106	5	5.28	106	0.8	30	69-123	
Trichloroethylene	5	5.05	101	5	5.01	100	0.8	30	71-123	
cis-1,3-Dichloropropene	5	4.92	98.4	5	4.90	98	0.4	30	70-128	
trans-1,3-Dichloropropene	5	4.65	93	5	4.68	93.6	0.6	30	75-133	
1,1,2-Trichloroethane	5	5.09	102	5	5.08	102	0.2	30	73-119	
Toluene	5	5.03	101	5	4.99	99.8	0.8	30	62-127	
1,2-Dibromoethane	5	4.69	93.8	5	4.69	93.8	0	30	74-122	
Tetrachloroethylene	5	4.80	96	5	4.76	95.2	0.8	30	66-124	
Chlorobenzene	5	4.97	99.4	5	4.94	98.8	0.6	30	70-119	
Ethylbenzene	5	5.13	103	5	5.10	102	0.6	30	70-124	
m- & p-Xylenes	10	9.96	99.6	10	9.92	99.2	0.4	30	61-134	
Styrene	5	4.60	92	5	4.56	91.2	0.9	30	73-127	
o-Xylene	5	5.10	102	5	5.07	101	0.6	30	67-125	
1,1,2,2-Tetrachloroethane	5	5.26	105	5	5.24	105	0.4	30	65-127	
1,3,5-Trimethylbenzene	5	4.99	99.8	5	4.97	99.4	0.4	30	67-130	
1,2,4-Trimethylbenzene	5	4.80	96	5	4.79	95.8	0.2	30	66-132	
1,3-Dichlorobenzene	5	4.81	96.2	5	4.84	96.8	0.6	30	65-130	
1,4-Dichlorobenzene	5	4.73	94.6	5	4.74	94.8	0.2	30	60-131	
1,2-Dichlorobenzene	5	4.71	94.2	5	4.76	95.2	1.1	30	63-129	
1,2,4-Trichlorobenzene	5	4.31	86.2	5	4.56	91.2	5.6	30	41-142	
Hexachlorobutadiene	5	4.35	87	5	4.49	89.8	3.2	30	56-138	
Propylene	5	5.55	111	5	5.46	109	1.6	30	57-136	
1,3-Butadiene	5	3.13	62.6	5	3.11	62.2	0.6	30	60-140	
Ethanol	5	4.69	93.8	5	4.84	96.8	3.2	30	59-133	
Acetone	5	5.07	101	5	5.08	102	0.2	30	58-128	
Isopropyl Alcohol	5	4.65	93	5	4.74	94.8	1.9	30	52-134	
Carbon disulfide	5	5.36	107	5	5.34	107	0.4	30	57-134	
MTBE	5	4.95	99	5	4.92	98.4	0.6	30	66-129	
2-Butanone	5	4.80	96	5	4.89	97.8	1.9	30	67-130	
Ethyl acetate	5	5.08	102	5	5.11	102	0.6	30	65-128	
n-Hexane	5	5.58	112	5	5.54	111	0.7	30	63-131	
Tetrahydrofuran	5	5.17	103	5	5.19	104	0.4	30	60-123	
Cyclohexane	5	5.37	107	5	5.33	107	0.7	30	70-117	
n-Heptane	5	5.47	109	5	5.42	108	0.9	30	69-131	
MIBK	5	5.29	106	5	5.27	105	0.4	30	67-130	
Methyl Butyl Ketone	5	5.49	110	5	5.17	103	6	30	60-140	
Bromoform	5	4.64	92.8	5	4.62	92.4	0.4	30	66-139	
4-Ethyltoluene	5	4.92	98.4	5	4.90	98	0.4	30	67-129	
Benzyl chloride	5	4.47	89.4	5	4.57	91.4	2.2	30	50-147	
Bromodichloromethane	5	4.98	99.6	5	4.96	99.2	0.4	30	72-128	
Dibromochloromethane	5	4.74	94.8	5	4.72	94.4	0.4	30	70-130	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24063189

Date : 7/10/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24070957

Created Date : 07/09/24

Created By : AVBembde

Samples in This QC Batch : 24063189.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Vinyl Acetate	5	4.86	97.2	5	4.88	97.6	0.4	30	56-139	

ab-q213-0321

Refer to the Definition page for terms.

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 24063189

Date: 7/10/2024

General Term Definition

Back-Wt	Back Weight	MQL	Unadjusted Minimum Quantitation Limit
BRL	Below Reporting Limit	Post-Wt	Post Weight
cfu	colony-forming units	ppm	parts per million
Conc.	Concentration	Pre-Wt	Previous Weight
D.F.	Dilution Factor	Q	Qualifier
Front-Wt	Front Weight	RegLimit	Regulatory Limit
J	Estimation. Below calibration range but above MDL	RLU	Relative Light Unit
LCS	Laboratory Check Standard	RPD	Relative Percent Difference
LCSD	Laboratory Check Standard Duplicate	RptLimit	Reporting Limit
LOD	Limit of detection adjusted for %M + DF	SDL	Sample Detection Limit
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit

Qualifier Definition

V7	CCV recovery is below the control limit for this analyte, however the average %difference for all the analytes meets method criteria.
----	---



Sample Condition Checklist

A&B JobID : 24063189		Date Received : 06/28/2024		Time Received : 10:00AM			
Client Name : Permian Basin Environmental Lab, LP							
Temperature : 23.0°C		Sample pH : NA					
Thermometer ID : IR7		pH Paper ID : NA					
Perservative :		Lot# :					
	Check Points				Yes	No	N/A
1.	Cooler Seal present and signed.						X
2.	Sample(s) in a cooler.					X	
3.	If yes, ice in cooler.						X
4.	Sample(s) received with chain-of-custody.				X		
5.	C-O-C signed and dated.				X		
6.	Sample(s) received with signed sample custody seal.					X	
7.	Sample containers arrived intact. (If No comment)				X		
8.	Matrix: Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input checked="" type="checkbox"/>						
9.	Samples were received in appropriate container(s)				X		
10.	Sample(s) were received with Proper preservative						X
11.	All samples were tagged or labeled.				X		
12.	Sample ID labels match C-O-C ID's.				X		
13.	Bottle count on C-O-C matches bottles found.				X		
14.	Sample volume is sufficient for analyses requested.				X		
15.	Samples were received with in the hold time.				X		
16.	VOA vials completely filled.						X
17.	Sample accepted.				X		
18.	Has client been contacted about sub-out						X

Comments : Include actions taken to resolve discrepancies/problem:

Other= Air (clear tedlar bags). ~ANS 06/28/24

Brought by : FedEx

Received by : ASmith

Check in by/date : ASmith / 06/28/2024

ab-s005-1123

Phone : 713-453-6060

www.ablabs.com



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB SUB COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard

☐ TRRP☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company-Name : PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard

☐ TRRP☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

						1 Laboratory Comments:	
BRENT BARRON		6/26/2024	5:00 PM	Received by:	Date	Time	Sample Containers Intact? Y N
Relinquished by:		Date	Time	Received by:	Date	Time	VOCs Free of Headspace? Y N
				FedEx			Labels on container(s) Y N
							Custody seals on container(s) Y N
							Custody seals on cooler(s) Y N
Relinquished by:		Date	Time	Received by:	Date	Time	Sample Hand Delivered Y N
							by Sampler/Client Rep? Y N
							by Courier? UPS DHL FedEx Lone Star
Relinquished by:		Date	Time	Received by:	Date	Time	Temperature Upon Receipt: 23.0 °C
FedEx		6/28/24	10:00	Kasir	6/28/24	10:00	Received: 23.0 °C IR7
							Adjusted: °C Factor KS

ORIGIN ID:MAFA (432) 686-7235
BRENT BARRON
PBE LAB
1400 RANKIN HWY

MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 26JUN24
ACTWGT: 2.00 LB
CAD: 107136846/INET4535
DIMS: 13x9x9 IN

BILL SENDER

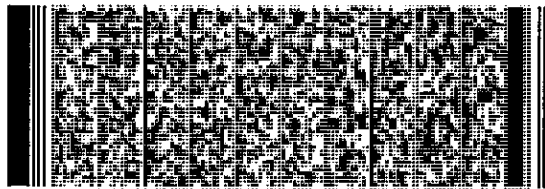
TO: **SAMPLE RECEIVING**
A & B ENVIRONMENTAL SERVICES
10100 EAST FREEWAY SUITE 100

HOUSTON TX 77029

(713) 453-6060
INV:
PO:

REF:

DEPT:



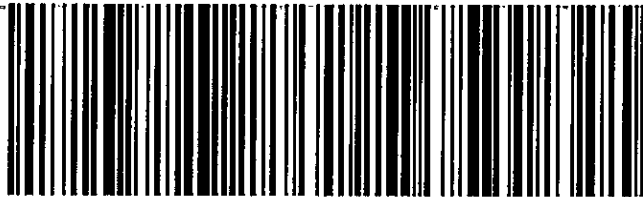
583J5B21D9A3

TRK# 7770 8258 2861
0201

THU - 27 JUN 5:00P
STANDARD OVERNIGHT

AB HBYA

77029
TX-US IAH



After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-84
Project Number: SRS 2009-84
Location: Lea County, NM
Lab Order Number: 4G25009



Current Certification

Report Date: 08/07/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-84 Project Number: SRS 2009-84 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (072424)	4G25009-01	Air	07/24/24 16:15	07-25-2024 11:48

TO15 analysis were subcontracted to A&B Houston. Their current certification can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/a&b_env.pdf

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-84
13000 West County Road 100	Project Number: SRS 2009-84
Odessa TX, 79765	Project Manager: Kimble Thrash

EFF-1 (072424)
4G25009-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

EPA TO-15									
Benzene	0.110	0.00400	ppm	1	P4H0708	08/07/24 11:04	07/24/24 00:00	TO-15	SUB-8
Ethylbenzene	0.0700	0.0100	ppm	1	P4H0708	08/07/24 11:04	07/24/24 00:00	TO-15	SUB-8
Xylene (p/m)	0.0700	0.0200	ppm	1	P4H0708	08/07/24 11:04	07/24/24 00:00	TO-15	SUB-8
Xylene (o)	0.0700	0.0100	ppm	1	P4H0708	08/07/24 11:04	07/24/24 00:00	TO-15	SUB-8
Toluene	304	0.0100	ppm	1	P4H0708	08/07/24 11:04	07/24/24 00:00	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-84
13000 West County Road 100	Project Number: SRS 2009-84
Odessa TX, 79765	Project Manager: Kimble Thrash

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-84
Project Number: SRS 2009-84
Project Manager: Kimble Thrash

Notes and Definitions

SUB-8 Subcontract of analyte/analysis to A&B Labs Houston.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

8/7/2024

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____
 Permian Basin Environmental Lab, LP
 1400 Rankin HWY
 Midland, Texas 79701

Phone: 432-686-7235

Page 6 of 19

Project Manager: Kimble ThrashCompany Name: Etech Environmental & Safety Solutions, Inc.Company Address: P.O. Box 6228City/State/Zip: Midland, TX 79711Telephone No: (432) 563-2200

Sampler Signature: _____

Fax No: (432) 563-2213e-mail: kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.comProject Name: SRS 2009-084Project #: SRS 2009-084Project Loc: Lea County, NM

PO #: _____

Report Format: ☒ Standard☐ TRRP☐ NPDES

(lab use only)

ORDER #: 4G25009

Analyze For:

TCLP:
TOTAL:

Preservation & # of Containers

Matrix

LAB # (lab use only)

FIELD CODE

EFF-1 (072424)

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

BTEX 8260 B

Air

X

RUSH TAT (Pre-Schedule) 24, 48, 72 hr

Standard TAT

Special Instructions: **Please invoice directly to Plains A/P 333 Clay St., Houston, TX 77002 and reference the SRS number in the Project Name.**

Relinquished by: _____

Relinquished by: _____

Relinquished by: _____

Date

Time

Received by:

Date

Time

Date

Time

Received by:

Date

Time

Date

Time

Received by PBE:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep. ?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:

Received: 5.4 °C Thermometer: NCE

Adjusted: °C Factor: 63

Y	N
Y	N
Y	N
Y	N
Y	N
Y	N
Y	N

Released to Imaging: 7/29/2025 12:03:59 PM

Laboratory Analysis Report

Total Number of Pages: 13

Job ID : 24072687




10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Subcontract

Report To :	Client Name:	Permian Basin Environmental Lab, LP	P.O.#:
	Attn:	Brent Barron	Sample Collected By:
	Client Address:	1400 Rankin Hwy	Date Collected: 07/24/24
	City, State, Zip:	Midland, Texas, 79701	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
4G25009	Air	24072687.01


Released By: Gobinath Rangasamy
Title: Project Manager
Date: 08/02/2024

Analyst: Amit Bembde




This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 07/26/2024 10:18



Job ID : 24072687

Date: 8/2/2024

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Attn : Brent Barron

Client Sample ID: 4G25009

Date Collected: 07/24/24

Time Collected: 16:15


Other Information:

Lab Sample ID: 24072687.01

Sample Matrix: Air

Test Method	Parameter/Test Description	M.W.	Results(nl)	MDL	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	< 0.12	0.12	1	< 654.7	< 0.1200		07/26/24
	1,1,2,2-Tetrachloroethane	167.85	< 0.05	0.05	1	< 343.3	< 0.0500		07/26/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	< 0.13	0.13	1	< 996.3	< 0.1300		07/26/24
	1,1,2-Trichloroethane	133.41	< 0.11	0.11	1	< 600.2	< 0.1100		07/26/24
	1,1-Dichloroethane	98.96	< 0.13	0.13	1	< 526.2	< 0.1300		07/26/24
	1,1-Dichloroethylene	96.94	< 0.2	0.2	1	< 793.0	< 0.2000		07/26/24
	1,2,4-Trichlorobenzene	181.45	< 0.09	0.09	1	< 667.9	< 0.0900		07/26/24
	1,2,4-Trimethylbenzene	120.19	< 0.05	0.05	1	< 245.8	< 0.0500		07/26/24
	1,2-Dibromoethane	187.87	< 0.1	0.1	1	< 768.4	< 0.1000		07/26/24
	1,2-Dichlorobenzene	147.00	< 0.09	0.09	1	< 541.1	< 0.0900		07/26/24
	1,2-Dichloroethane	98.96	< 0.11	0.11	1	< 445.2	< 0.1100		07/26/24
	1,2-Dichloropropane	112.99	< 0.12	0.12	1	< 554.6	< 0.1200		07/26/24
	1,2-Dichlorotetrafluoroethane	170	< 0.14	0.14	1	< 973.4	< 0.1400		07/26/24
	1,3,5-Trimethylbenzene	120.19	< 0.05	0.05	1	< 245.8	< 0.0500		07/26/24
	1,3-Butadiene	54.09	< 0.22	0.22	1	< 486.7	< 0.2200		07/26/24
	1,3-Dichlorobenzene	147.00	< 0.1	0.1	1	< 601.2	< 0.1000		07/26/24
	1,4-Dichlorobenzene	147.00	< 0.1	0.1	1	< 601.2	< 0.1000		07/26/24
	2-Butanone	72.11	< 0.08	0.08	1	< 235.9	< 0.0800		07/26/24
	4-Ethyltoluene	120	< 0.05	0.05	1	< 245.4	< 0.0500		07/26/24
	Acetone ²	58.08	< 0.13	0.13	1	< 308.8	< 0.1300		07/26/24
	Benzene	78.11	< 0.11	0.11	1	< 351.4	< 0.1100		07/26/24
	Benzyl chloride	126.59	< 0.05	0.05	1	< 258.9	< 0.0500		07/26/24
	Bromodichloromethane ¹	163.83	< 0.1	0.1	1	< 670.1	< 0.1000		07/26/24
	Bromoform	252.75	< 0.09	0.09	1	< 930.4	< 0.0900		07/26/24
	Bromomethane	94.94	< 0.14	0.14	1	< 543.6	< 0.1400		07/26/24
	Carbon disulfide ²	76.14	< 0.17	0.17	1	< 529.4	< 0.1700		07/26/24
	Carbon tetrachloride	153.82	< 0.1	0.1	1	< 629.1	< 0.1000		07/26/24
	Chlorobenzene	112.56	< 0.11	0.11	1	< 506.4	< 0.1100		07/26/24
	Chloroethane	65.42	< 0.18	0.18	1	< 481.6	< 0.1800		07/26/24
	Chloroform	119.38	< 0.12	0.12	1	< 585.9	< 0.1200		07/26/24
	Chloromethane	50.49	< 0.16	0.16	1	< 330.4	< 0.1600		07/26/24
	cis-1,2-Dichloroethylene	96.94	< 0.14	0.14	1	< 555.1	< 0.1400		07/26/24
	cis-1,3-Dichloropropene	110.97	< 0.08	0.08	1	< 363.1	< 0.0800		07/26/24
	Cyclohexane	84.16	14.92	0.1	1	51356.5	14.9200 E		07/26/24
	Dibromochloromethane ²	208.29	< 0.1	0.1	1	< 851.9	< 0.1000		07/26/24
	Dichlorodifluoromethane	120	< 0.12	0.12	1	< 589.0	< 0.1200		07/26/24
	Ethanol ²	46.07	< 0.26	0.26	1	< 489.9	< 0.2600		07/26/24
	Ethyl acetate ²	88.11	< 0.12	0.12	1	< 432.4	< 0.1200		07/26/24
	Ethylbenzene	106.17	< 0.07	0.07	1	< 304.0	< 0.0700		07/26/24
	Hexachlorobutadiene	258	< 0.06	0.06	1	< 633.1	< 0.0600		07/26/24

ab-q212-0321

LABORATORY TEST RESULTS									
		Job ID : 24072687					Date: 8/2/2024		
Client Name :		Permian Basin Environmental Lab, LP					Attn : Brent Barron		
Project Name:		Subcontract							
Client Sample ID:		4G25009			Lab Sample ID:		24072687.01		
Date Collected:		07/24/24			Sample Matrix:		Air		
Time Collected:		16:15							
Other Information:									
Test Method	Parameter/Test Description	M.W.	Results(nl)	MDL	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	Isopropyl Alcohol ²	60.1	< 0.07	0.07	1	< 172.1	< 0.0700		07/26/24
	m- & p-Xylenes	106.17	< 0.14	0.14	1	< 607.9	< 0.1400		07/26/24
	Methyl Butyl Ketone ²	100	< 0.08	0.08	1	< 327.2	< 0.0800		07/26/24
	Methylene chloride	84.93	< 0.14	0.14	1	< 486.3	< 0.1400		07/26/24
	MIBK	100.16	< 0.07	0.07	1	< 286.8	< 0.0700		07/26/24
	MTBE	88.15	< 0.08	0.08	1	< 288.4	< 0.0800		07/26/24
	n-Heptane	100.21	9.98	0.12	1	40903.7	9.9800		07/26/24
	n-Hexane	86.18	11.88	0.16	1	41874.0	11.8800	E	07/26/24
	o-Xylene	106.17	< 0.07	0.07	1	< 304.0	< 0.0700		07/26/24
	Propylene	42.08	< 0.19	0.19	1	< 327.0	< 0.1900		07/26/24
	Styrene	104	< 0.07	0.07	1	< 297.8	< 0.0700		07/26/24
	Tetrachloroethylene	165.83	< 0.11	0.11	1	< 746.1	< 0.1100		07/26/24
	Tetrahydrofuran ²	72.11	< 0.06	0.06	1	< 177.0	< 0.0600		07/26/24
	Toluene	92.14	< 0.12	0.12	1	< 452.2	< 0.1200		07/26/24
	trans-1,2-Dichloroethylene	96.94	< 0.11	0.11	1	< 436.1	< 0.1100		07/26/24
	trans-1,3-Dichloropropene	110.97	< 0.08	0.08	1	< 363.1	< 0.0800		07/26/24
	Trichloroethylene	131.39	< 0.18	0.18	1	< 967.3	< 0.1800		07/26/24
	Trichlorofluoromethane	137.37	< 0.14	0.14	1	< 786.6	< 0.1400		07/26/24
	Vinyl Acetate	86.09	< 0.06	0.06	1	< 211.3	< 0.0600		07/26/24
	Vinyl Chloride	62.5	< 0.21	0.21	1	< 536.8	< 0.2100		07/26/24
Total [VOC] calculated			36.78			134134.209	36.780		

EPA TO-- 15 Sample Analysis -- GC/MS



Lab ID	24072687.01
Date Acquired	26 Jul 2024 5:23 pm
Analyst	AVBEMBDE
Sample Run ID	X072607.D
tedlar bag (cc)	1000
Injection Volume (cc)	1

Compound Name	CAS #	R.T.	M.W	Nanoliters	Vol.(L)	ug/l	ppm
Pentane, 2-methyl-	107-83-5	6.92	86	9.2	0.001	32.360	9.200
Pentane, 3-methyl-	96-14-0	7.37	86	7.4	0.001	26.029	7.400
Cyclopentane, methyl-	96-37-7	8.92	84	14.5	0.001	49.816	14.500
Hexane, 2-methyl-	591-76-4	10.4	100	6.9	0.001	28.221	6.900
Hexane, 3-methyl-	589-34-4	10.75	100	9.1	0.001	37.219	9.100
Cyclopentane, 1,3-dimethyl-	2453-00-1	11.057	98	5	0.001	20.041	5.000
Isopropylcyclobutane	872-56-0	11.28	98	8.2	0.001	32.867	8.200
Cyclohexane, methyl-	96-37-7	12.6	84	20.5	0.001	70.429	20.500
Cyclopentane, ethyl-	1640-89-7	13.026	98	2.84	0.001	11.383	2.840
Heptane, 2-methyl-	592-27-8	14.26	114	3.1	0.001	14.454	3.100
Cyclohexane, 1,3-dimethyl-, cis	638-04-0	14.763	112	3.4	0.001	15.575	3.400



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: Method Blank

Analysis Date: 7/26/2024

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	µg/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.

QUALITY CONTROL CERTIFICATE



Job ID : 24072687

Date : 8/2/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24080239

Created Date : 08/02/24

Created By : AVBembde

Samples in This QC Batch : 24072687.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
trans-1,2-Dichloroethylene	156-60-5	BRL	nL	1	0.5		
Dichlorodifluoromethane	75-71-8	BRL	nL	1	0.5		
Chloromethane	74-87-3	BRL	nL	1	0.5		
1,2-Dichlorotetrafluoroetha	76-14-2	BRL	nL	1	0.5		
Vinyl Chloride	75-01-4	BRL	nL	1	0.21		
Bromomethane	74-83-9	BRL	nL	1	0.5		
Chloroethane	75-00-3	BRL	nL	1	0.5		
Trichlorofluoromethane	75-69-4	BRL	nL	1	0.5		
1,1-Dichloroethylene	75-35-4	BRL	nL	1	0.5		
Methylene chloride	75-09-2	BRL	nL	1	0.5		
1,1,2-Trichloro-1,2,2-trifluo	76-13-1	BRL	nL	1	0.5		
1,1-Dichloroethane	75-34-3	BRL	nL	1	0.5		
cis-1,2-Dichloroethylene	156-59-2	BRL	nL	1	0.5		
Chloroform	67-66-3	BRL	nL	1	0.5		
1,2-Dichloroethane	107-06-2	BRL	nL	1	0.2		
1,1,1-Trichloroethane	71-55-6	BRL	nL	1	0.5		
Benzene	71-43-2	BRL	nL	1	0.2		
Carbon tetrachloride	56-23-5	BRL	nL	1	0.5		
1,2-Dichloropropane	78-87-5	BRL	nL	1	0.5		
Trichloroethylene	79-01-6	BRL	nL	1	0.5		
cis-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5		
trans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5		
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5		
Toluene	108-88-3	BRL	nL	1	0.5		
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5		
Tetrachloroethylene	127-18-4	BRL	nL	1	0.5		
Chlorobenzene	108-90-7	BRL	nL	1	0.5		
Ethylbenzene	100-41-4	BRL	nL	1	0.5		
m- & p-Xylenes	179601-23-1	BRL	nL	1	1		
Styrene	100-42-5	BRL	nL	1	0.5		
o-Xylene	95-47-6	BRL	nL	1	0.5		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	nL	1	0.5		
1,3,5-Trimethylbenzene	108-67-8	BRL	nL	1	0.5		
1,2,4-Trimethylbenzene	95-63-6	BRL	nL	1	0.5		
1,3-Dichlorobenzene	541-73-1	BRL	nL	1	0.5		
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5		
1,2-Dichlorobenzene	95-50-1	BRL	nL	1	0.5		
1,2,4-Trichlorobenzene	120-82-1	BRL	nL	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	nL	1	0.5		
1,3-Butadiene	106-99-0	BRL	nL	1	0.22		
2-Butanone	78-93-3	BRL	nL	1	0.5		
4-Ethyltoluene	622-96-8	BRL	nL	1	0.5		

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24072687

Date : 8/2/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24080239

Created Date : 08/02/24

Created By : AVBembde

Samples in This QC Batch : 24072687.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Acetone	67-64-1	BRL	nL	1	0.5	
Benzyl chloride	100-44-7	BRL	nL	1	0.5	
Bromodichloromethane	75-27-4	BRL	nL	1	0.5	
Bromoform	75-25-2	BRL	nL	1	0.5	
Carbon disulfide	75-15-0	BRL	nL	1	0.5	
Cyclohexane	110-82-7	BRL	nL	1	0.5	
Dibromochloromethane	124-48-1	BRL	nL	1	0.5	
Ethanol	64-17-5	BRL	nL	1	0.5	
Ethyl acetate	141-78-6	BRL	nL	1	0.5	
n-Heptane	142-82-5	BRL	nL	1	0.5	
n-Hexane	110-54-3	BRL	nL	1	0.5	
Isopropyl Alcohol	67-63-0	BRL	nL	1	0.5	
Methyl Butyl Ketone	591-78-6	BRL	nL	1	0.5	
MIBK	108-10-1	BRL	nL	1	0.5	
MTBE	1634-04-4	BRL	nL	1	0.5	
Propylene	115-07-1	BRL	nL	1	0.5	
Tetrahydrofuran	109-99-9	BRL	nL	1	0.5	
Vinyl Acetate	108-05-4	BRL	nL	1	0.5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	5	4.84	96.8	5	4.95	99	2.2	30	70-130	
Dichlorodifluoromethane	5	5.22	104	5	5.31	106	1.7	30	59-134	
Chloromethane	5	4.99	99.8	5	5.05	101	1.2	30	55-132	
1,2-Dichlorotetrafluoroetha	5	5.12	102	5	5.24	105	2.3	30	63-142	
Vinyl Chloride	5	4.99	99.8	5	5.10	102	2.2	30	61-139	
Bromomethane	5	4.99	99.8	5	5.07	101	1.6	30	63-134	
Chloroethane	5	5.04	101	5	5.04	101	0	30	63-127	
Trichlorofluoromethane	5	4.96	99.2	5	5.02	100	1.2	30	62-130	
1,1-Dichloroethylene	5	4.93	98.6	5	5.05	101	2.4	30	61-133	
Methylene chloride	5	5.02	100	5	5.03	101	0.2	30	62-117	
1,1,2-Trichloro-1,2,2-trifluo	5	4.98	99.6	5	5.08	102	2	30	60-131	
1,1-Dichloroethane	5	4.91	98.2	5	4.95	99	0.8	30	68-126	
cis-1,2-Dichloroethylene	5	4.91	98.2	5	4.99	99.8	1.6	30	70-131	
Chloroform	5	4.94	98.8	5	5.03	101	1.8	30	68-134	
1,2-Dichloroethane	5	5.05	101	5	5.14	103	1.8	30	65-132	
1,1,1-Trichloroethane	5	4.97	99.4	5	5.02	100	1	30	68-132	
Benzene	5	5.00	100	5	5.02	100	0.4	30	69-119	
Carbon tetrachloride	5	4.97	99.4	5	5.02	100	1	30	68-132	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24072687

Date : 8/2/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24080239

Created Date : 08/02/24

Created By : AVBembde

Samples in This QC Batch : 24072687.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dichloropropane	5	4.96	99.2	5	5.06	101	2	30	69-123	
Trichloroethylene	5	5.12	102	5	5.15	103	0.6	30	71-123	
cis-1,3-Dichloropropene	5	4.89	97.8	5	4.99	99.8	2	30	70-128	
trans-1,3-Dichloropropene	5	4.89	97.8	5	4.99	99.8	2	30	75-133	
1,1,2-Trichloroethane	5	5.03	101	5	5.11	102	1.6	30	73-119	
Toluene	5	4.97	99.4	5	5.10	102	2.6	30	62-127	
1,2-Dibromoethane	5	4.93	98.6	5	5.05	101	2.4	30	74-122	
Tetrachloroethylene	5	5.01	100	5	5.10	102	1.8	30	66-124	
Chlorobenzene	5	5.04	101	5	5.15	103	2.2	30	70-119	
Ethylbenzene	5	4.85	97	5	4.95	99	2	30	70-124	
m- & p-Xylenes	10	9.89	98.9	10	10.1	101	2.1	30	61-134	
Styrene	5	4.73	94.6	5	4.87	97.4	2.9	30	73-127	
o-Xylene	5	4.87	97.4	5	4.98	99.6	2.2	30	67-125	
1,1,2,2-Tetrachloroethane	5	4.98	99.6	5	5.10	102	2.4	30	65-127	
1,3,5-Trimethylbenzene	5	4.45	89	5	4.71	94.2	5.7	30	67-130	
1,2,4-Trimethylbenzene	5	4.34	86.8	5	4.57	91.4	5.2	30	66-132	
1,3-Dichlorobenzene	5	4.62	92.4	5	4.82	96.4	4.2	30	65-130	
1,4-Dichlorobenzene	5	4.32	86.4	5	4.45	89	3	30	60-131	
1,2-Dichlorobenzene	5	4.33	86.6	5	4.57	91.4	5.4	30	63-129	
1,2,4-Trichlorobenzene	5	4.90	98	5	5.09	102	3.8	30	41-142	
Hexachlorobutadiene	5	5.57	111	5	5.72	114	2.7	30	56-138	
Propylene	5	5.03	101	5	5.15	103	2.4	30	57-136	
1,3-Butadiene	5	5.00	100	5	5.07	101	1.4	30	60-140	
Ethanol	5	6.03	121	5	6.14	123	1.8	30	59-133	
Acetone	5	4.96	99.2	5	5.15	103	3.8	30	58-128	
Isopropyl Alcohol	5	5.51	110	5	5.82	116	5.5	30	52-134	
Carbon disulfide	5	4.95	99	5	5.03	101	1.6	30	57-134	
MTBE	5	5.01	100	5	5.07	101	1.2	30	66-129	
2-Butanone	5	5.03	101	5	5.17	103	2.8	30	67-130	
Ethyl acetate	5	4.97	99.4	5	4.98	99.6	0.2	30	65-128	
n-Hexane	5	4.95	99	5	4.96	99.2	0.2	30	63-131	
Tetrahydrofuran	5	5.04	101	5	5.14	103	2	30	60-123	
Cyclohexane	5	5.00	100	5	5.00	100	0	30	70-117	
n-Heptane	5	4.99	99.8	5	5.11	102	2.4	30	69-131	
MIBK	5	4.86	97.2	5	4.95	99	1.8	30	67-130	
Methyl Butyl Ketone	5	4.41	88.2	5	4.55	91	3.1	30	60-140	
Bromoform	5	4.81	96.2	5	4.95	99	2.9	30	66-139	
4-Ethyltoluene	5	4.32	86.4	5	4.61	92.2	6.5	30	67-129	
Benzyl chloride	5	4.86	97.2	5	5.17	103	6.2	30	50-147	
Bromodichloromethane	5	5.00	100	5	5.05	101	1	30	72-128	
Dibromochloromethane	5	5.00	100	5	5.11	102	2.2	30	70-130	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24072687

Date : 8/2/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24080239

Created Date : 08/02/24

Created By : AVBembde

Samples in This QC Batch : 24072687.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Vinyl Acetate	5	4.64	92.8	5	4.77	95.4	2.8	30	56-139	

ab-q213-0321

Refer to the Definition page for terms.

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 24072687

Date: 8/2/2024

General Term Definition

Back-Wt	Back Weight	MQL	Unadjusted Minimum Quantitation Limit
BRL	Below Reporting Limit	Post-Wt	Post Weight
cfu	colony-forming units	ppm	parts per million
Conc.	Concentration	Pre-Wt	Previous Weight
D.F.	Dilution Factor	Q	Qualifier
Front-Wt	Front Weight	RegLimit	Regulatory Limit
J	Estimation. Below calibration range but above MDL	RLU	Relative Light Unit
LCS	Laboratory Check Standard	RPD	Relative Percent Difference
LCSD	Laboratory Check Standard Duplicate	RptLimit	Reporting Limit
LOD	Limit of detection adjusted for %M + DF	SDL	Sample Detection Limit
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit

Qualifier Definition

E	Estimation. Above calibration range.
---	--------------------------------------



Sample Condition Checklist

A&B JobID : 24072687		Date Received : 07/26/2024		Time Received : 10:18AM	
Client Name : Permian Basin Environmental Lab, LP					
Temperature : 22.5°C		Sample pH : NA			
Thermometer ID : IR7		pH Paper ID : NA			
Perservative :		Lot# :			
	Check Points	Yes	No	N/A	
1.	Cooler Seal present and signed.		X		
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.		X		
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If No comment)	X			
8.	Matrix: Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input checked="" type="checkbox"/>				
9.	Samples were received in appropriate container(s)	X			
10.	Sample(s) were received with Proper preservative			X	
11.	All samples were tagged or labeled.	X			
12.	Sample ID labels match C-O-C ID's.	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received with in the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	

Comments : Include actions taken to resolve discrepancies/problem:

Other: Air (clear tedlar). ~DG 7/26/24

Brought by : FedEx

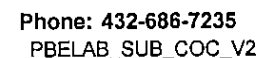
Received by : DGonzalez

Check in by/date : DGonzalez / 07/26/2024

ab-s005-1123

Phone : 713-453-6060

www.ablabs.com



e-mail: brentbarron@pbelab.com

Job ID:24072687

Page 18 of 19

ORIGIN ID:MAFA (432) 686-7235
BRENT BARRON
PBE LAB
1400 RANKIN HWY

SHIP DATE: 25JUL24
ACTWGT: 2.00 LB
CAD: 107136846/INET4535
DIMS: 13x9x9 IN

MIDLAND, TX 79701
UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIVING**
A & B ENVIRONMENTAL SERVICES
10100 EAST FREEWAY SUITE 100

HOUSTON TX 77029

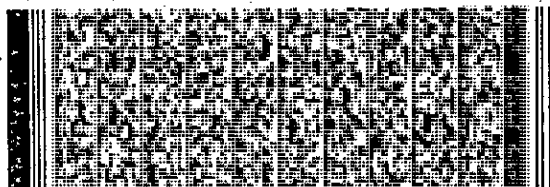
(713) 453-6060

REF:

INV:

PO:

DEPT:



FedEx
Express



1243054071901W

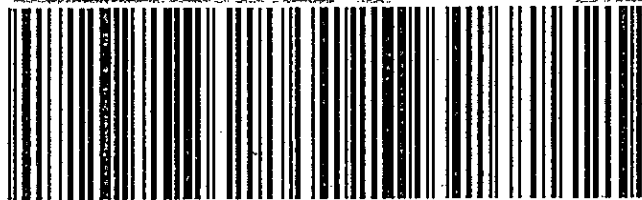
FRI - 26 JUL 5:00P
STANDARD OVERNIGHT

TRK#
0201 7776 1576 0471

AB HBYA

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TX-US IAH



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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Location: Lea County, NM
Lab Order Number: 4H21021



Current Certification

Report Date: 09/08/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (082024)	4H21021-01	Air	08/20/24 14:30	08-21-2024 15:00

TO-15 analysis was subcontracted to A&B Houston. Their current certification can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/a&b_env.pdf

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

EFF-1 (082024)
4H21021-01 (Air)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

EPA TO-15									
Benzene	ND	0.110	ppm	1	P4I0409	08/23/24 10:04	08/23/24 14:30	TO-15	SUB-8
Ethylbenzene	1.33	0.0700	ppm	1	P4I0409	08/23/24 10:04	08/23/24 14:30	TO-15	SUB-8
Xylene (p/m)	3.08	0.140	ppm	1	P4I0409	08/23/24 10:04	08/23/24 14:30	TO-15	SUB-8
Xylene (o)	0.770	0.0700	ppm	1	P4I0409	08/23/24 10:04	08/23/24 14:30	TO-15	SUB-8
Toluene	8.07	0.120	ppm	1	P4I0409	08/23/24 10:04	08/23/24 14:30	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Notes and Definitions

SUB-8 Subcontract of analyte/analysis to A&B Labs Houston.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 9/8/2024

Brent Barron, Laboratory Director/Technical Director

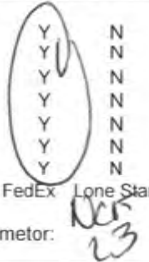
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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

						1	Laboratory Comments:						
						Sample Containers Intact?		Y		N			
						VOCs Free of Headspace?		Y		N			
BRENT BARRON		8/21/2024	5:00 PM	Received by:		Date	Time	Labels on container(s)		Y		N	
								Custody seals on container(s)		Y		N	
								Custody seals on cooler(s)		Y		N	
Relinquished by:		Date	Time	Received by:		Date	Time	Sample Hand Delivered		Y		N	
								by Sampler/Client Rep. ?		Y		N	
								by Courier? UPS DHL FedEx Lone Star					
Relinquished by:		Date	Time	Received by:		Date	Time	Temperature Upon Receipt:					
								Received: °C					
								Adjusted: °C Factor					

Laboratory Analysis Report

Total Number of Pages: 13

Job ID : 24082420




10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Subcontract

Report To :	Client Name:	Permian Basin Environmental Lab, LP	P.O.#.:
	Attn:	Brent Barron	Sample Collected By:
	Client Address:	1400 Rankin Hwy	Date Collected: 08/20/24
	City, State, Zip:	Midland, Texas, 79701	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
4H21021	Air	24082420.01


Released By: Gobinath Rangasamy
Title: Project Manager
Date: 08/29/2024

Analyst: Amit Bembde




This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 08/22/2024 10:13



Job ID : 24082420

Date: 8/29/2024

Client Name : Permian Basin Environmental Lab, LP

Attn : Brent Barron

Project Name: Subcontract

Client Sample ID: 4H21021

Lab Sample ID: 24082420.01

Date Collected: 08/20/24


Sample Matrix: Air

Time Collected: 14:30

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	MDL	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	< 0.12	0.12	20CC	< 32.7	< 0.0060		08/23/24
	1,1,2,2-Tetrachloroethane	167.85	< 0.05	0.05	20CC	< 17.2	< 0.0025		08/23/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	< 0.13	0.13	20CC	< 49.8	< 0.0065		08/23/24
	1,1,2-Trichloroethane	133.41	< 0.11	0.11	20CC	< 30.0	< 0.0055		08/23/24
	1,1-Dichloroethane	98.96	< 0.13	0.13	20CC	< 26.3	< 0.0065		08/23/24
	1,1-Dichloroethylene	96.94	< 0.2	0.2	20CC	< 39.6	< 0.0100		08/23/24
	1,2,4-Trichlorobenzene	181.45	< 0.09	0.09	20CC	< 33.4	< 0.0045		08/23/24
	1,2,4-Trimethylbenzene	120.19	< 0.05	0.05	20CC	< 12.3	< 0.0025		08/23/24
	1,2-Dibromoethane	187.87	< 0.1	0.1	20CC	< 38.4	< 0.0050		08/23/24
	1,2-Dichlorobenzene	147.00	< 0.09	0.09	20CC	< 27.1	< 0.0045		08/23/24
	1,2-Dichloroethane	98.96	< 0.11	0.11	20CC	< 22.3	< 0.0055		08/23/24
	1,2-Dichloropropane	112.99	< 0.12	0.12	20CC	< 27.7	< 0.0060		08/23/24
	1,2-Dichlorotetrafluoroethane	170	< 0.14	0.14	20CC	< 48.7	< 0.0070		08/23/24
	1,3,5-Trimethylbenzene	120.19	< 0.05	0.05	20CC	< 12.3	< 0.0025		08/23/24
	1,3-Butadiene	54.09	< 0.22	0.22	20CC	< 24.3	< 0.0110		08/23/24
	1,3-Dichlorobenzene	147.00	< 0.1	0.1	20CC	< 30.1	< 0.0050		08/23/24
	1,4-Dichlorobenzene	147.00	< 0.1	0.1	20CC	< 30.1	< 0.0050		08/23/24
	2-Butanone	72.11	< 0.08	0.08	20CC	< 11.8	< 0.0040		08/23/24
	4-Ethyltoluene	120	< 0.05	0.05	20CC	< 12.3	< 0.0025		08/23/24
	Acetone ²	58.08	< 0.13	0.13	20CC	< 15.4	< 0.0065		08/23/24
	Benzene	78.11	< 0.11	0.11	20CC	< 17.6	< 0.0055		08/23/24
	Benzyl chloride	126.59	< 0.05	0.05	20CC	< 12.9	< 0.0025		08/23/24
	Bromodichloromethane ¹	163.83	< 0.1	0.1	20CC	< 33.5	< 0.0050		08/23/24
	Bromoform	252.75	< 0.09	0.09	20CC	< 46.5	< 0.0045		08/23/24
	Bromomethane	94.94	< 0.14	0.14	20CC	< 27.2	< 0.0070		08/23/24
	Carbon disulfide ²	76.14	< 0.17	0.17	20CC	< 26.5	< 0.0085		08/23/24
	Carbon tetrachloride	153.82	< 0.1	0.1	20CC	< 31.5	< 0.0050		08/23/24
	Chlorobenzene	112.56	2.79	0.11	20CC	642.2	0.1395		08/23/24
	Chloroethane	65.42	< 0.18	0.18	20CC	< 24.1	< 0.0090		08/23/24
	Chloroform	119.38	< 0.12	0.12	20CC	< 29.3	< 0.0060		08/23/24
	Chloromethane	50.49	< 0.16	0.16	20CC	< 16.5	< 0.0080		08/23/24
	cis-1,2-Dichloroethylene	96.94	< 0.14	0.14	20CC	< 27.8	< 0.0070		08/23/24
	cis-1,3-Dichloropropene	110.97	< 0.08	0.08	20CC	< 18.2	< 0.0040		08/23/24
	Cyclohexane	84.16	8.92	0.1	20CC	1535.2	0.4460		08/23/24
	Dibromochloromethane ²	208.29	< 0.1	0.1	20CC	< 42.6	< 0.0050		08/23/24
	Dichlorodifluoromethane	120	< 0.12	0.12	20CC	< 29.4	< 0.0060		08/23/24
	Ethanol ²	46.07	< 0.26	0.26	20CC	< 24.5	< 0.0130		08/23/24
	Ethyl acetate ²	88.11	< 0.12	0.12	20CC	< 21.6	< 0.0060		08/23/24
	Ethylbenzene	106.17	1.33	0.07	20CC	288.8	0.0665		08/23/24
	Hexachlorobutadiene	258	< 0.06	0.06	20CC	< 31.7	< 0.0030		08/23/24

ab-q212-0321

LABORATORY TEST RESULTS									
		Job ID : 24082420				Date: 8/29/2024			
Client Name :		Permian Basin Environmental Lab, LP					Attn : Brent Barron		
Project Name:		Subcontract							
Client Sample ID:		4H21021			Lab Sample ID:		24082420.01		
Date Collected:		08/20/24			Sample Matrix:		Air		
Time Collected:		14:30							
Other Information:									
Test Method	Parameter/Test Description	M.W.	Results(nl)	MDL	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	Isopropyl Alcohol ²	60.1	< 0.07	0.07	20CC	< 8.6	< 0.0035		08/23/24
	m- & p-Xylenes	106.17	3.08	0.14	20CC	668.7	0.1540		08/23/24
	Methyl Butyl Ketone ²	100	< 0.08	0.08	20CC	< 16.4	< 0.0040		08/23/24
	Methylene chloride	84.93	< 0.14	0.14	20CC	< 24.3	< 0.0070		08/23/24
	MIBK	100.16	< 0.07	0.07	20CC	< 14.3	< 0.0035		08/23/24
	MTBE	88.15	< 0.08	0.08	20CC	< 14.4	< 0.0040		08/23/24
	n-Heptane	100.21	0.58	0.12	0.5CC	4754.3	1.1600		08/22/24
	n-Hexane	86.18	6.7	0.16	20CC	1180.8	0.3350		08/23/24
	o-Xylene	106.17	0.77	0.07	20CC	167.2	0.0385		08/23/24
	Propylene	42.08	< 0.19	0.19	20CC	< 16.4	< 0.0095		08/23/24
	Styrene	104	< 0.07	0.07	20CC	< 14.9	< 0.0035		08/23/24
	Tetrachloroethylene	165.83	< 0.11	0.11	20CC	< 37.3	< 0.0055		08/23/24
	Tetrahydrofuran ²	72.11	< 0.06	0.06	20CC	< 8.8	< 0.0030		08/23/24
	Toluene	92.14	8.07	0.12	20CC	1520.6	0.4035		08/23/24
	trans-1,2-Dichloroethylene	96.94	< 0.11	0.11	20CC	< 21.8	< 0.0055		08/23/24
	trans-1,3-Dichloropropene	110.97	< 0.08	0.08	20CC	< 18.2	< 0.0040		08/23/24
	Trichloroethylene	131.39	< 0.18	0.18	20CC	< 48.4	< 0.0090		08/23/24
	Trichlorofluoromethane	137.37	< 0.14	0.14	20CC	< 39.3	< 0.0070		08/23/24
	Vinyl Acetate	86.09	< 0.06	0.06	20CC	< 10.6	< 0.0030		08/23/24
	Vinyl Chloride	62.5	< 0.21	0.21	20CC	< 26.8	< 0.0105		08/23/24
Total [VOC] calculated			32.24			10757.7	87	2.743	

EPA TO-- 15 Sample Analysis -- GC/MS



Lab ID	24082420.01
Date Acquired	23 Aug 2024 10:04 am
Analyst	AVBEMBDE
Sample Run ID	X082213.D
tedlar bag (cc)	1000
Injection Volume (cc)	20

Compound Name	CAS #	R.T.	M.W	Nanoliters	Vol.(L)	ug/l	ppm
Cyclopentane, methyl-	96-37-7	8.92	84	5.96	0.02	1.024	0.298
Hexane, 2-methyl-	591-76-4	10.4	100	8.59	0.02	1.757	0.430
Hexane, 3-methyl-	589-34-4	10.75	100	11.96	0.02	2.446	0.598
Cyclopentane, 1,3-dimethyl-	2453-00-1	11.17	98	7.05	0.02	1.413	0.353
Isopropylcyclobutane	872-56-0	11.28	98	9.58	0.02	1.920	0.479
Cyclohexane, methyl-	96-37-7	12.6	84	39.82	0.02	6.840	1.991
Cyclopentane, ethyl-	1640-89-7	13.026	98	8.1	0.02	1.623	0.405
Heptane, 2-methyl-	592-27-8	14.26	114	11.41	0.02	2.660	0.571
Heptane, 3-methyl-	589-81-1	14.56	114	7.67	0.02	1.788	0.384
Cyclohexane, 1,3-dimethyl-, cis	638-04-0	14.763	112	12.42	0.02	2.845	0.621
Octane	111-65-9	15.51	114	17.13	0.02	3.993	0.857



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: METHOD BLANK

Analysis Date: 8/22/2024

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	µg/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.

QUALITY CONTROL CERTIFICATE



Job ID : 24082420

Date : 8/29/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24082330

Created Date : 08/23/24

Created By : AVBembde

Samples in This QC Batch : 24082420.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
trans-1,2-Dichloroethylene	156-60-5	BRL	nL	1	0.5		
Dichlorodifluoromethane	75-71-8	BRL	nL	1	0.5		
Chloromethane	74-87-3	BRL	nL	1	0.5		
1,2-Dichlorotetrafluoroetha	76-14-2	BRL	nL	1	0.5		
Vinyl Chloride	75-01-4	BRL	nL	1	0.21		
Bromomethane	74-83-9	BRL	nL	1	0.5		
Chloroethane	75-00-3	BRL	nL	1	0.5		
Trichlorofluoromethane	75-69-4	BRL	nL	1	0.5		
1,1-Dichloroethylene	75-35-4	BRL	nL	1	0.5		
Methylene chloride	75-09-2	BRL	nL	1	0.5		
1,1,2-Trichloro-1,2,2-trifluo	76-13-1	BRL	nL	1	0.5		
1,1-Dichloroethane	75-34-3	BRL	nL	1	0.5		
cis-1,2-Dichloroethylene	156-59-2	BRL	nL	1	0.5		
Chloroform	67-66-3	BRL	nL	1	0.5		
1,2-Dichloroethane	107-06-2	BRL	nL	1	0.2		
1,1,1-Trichloroethane	71-55-6	BRL	nL	1	0.5		
Benzene	71-43-2	BRL	nL	1	0.2		
Carbon tetrachloride	56-23-5	BRL	nL	1	0.5		
1,2-Dichloropropane	78-87-5	BRL	nL	1	0.5		
Trichloroethylene	79-01-6	BRL	nL	1	0.5		
cis-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5		
trans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5		
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5		
Toluene	108-88-3	BRL	nL	1	0.5		
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5		
Tetrachloroethylene	127-18-4	BRL	nL	1	0.5		
Chlorobenzene	108-90-7	BRL	nL	1	0.5		
Ethylbenzene	100-41-4	BRL	nL	1	0.5		
m- & p-Xylenes	179601-23-1	BRL	nL	1	1		
Styrene	100-42-5	BRL	nL	1	0.5		
o-Xylene	95-47-6	BRL	nL	1	0.5		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	nL	1	0.5		
1,3,5-Trimethylbenzene	108-67-8	BRL	nL	1	0.5		
1,2,4-Trimethylbenzene	95-63-6	BRL	nL	1	0.5		
1,3-Dichlorobenzene	541-73-1	BRL	nL	1	0.5		
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5		
1,2-Dichlorobenzene	95-50-1	BRL	nL	1	0.5		
1,2,4-Trichlorobenzene	120-82-1	BRL	nL	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	nL	1	0.5		
1,3-Butadiene	106-99-0	BRL	nL	1	0.22		
2-Butanone	78-93-3	BRL	nL	1	0.5		
4-Ethyltoluene	622-96-8	BRL	nL	1	0.5		

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24082420

Date : 8/29/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24082330

Created Date : 08/23/24

Created By : AVBembde

Samples in This QC Batch : 24082420.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Acetone	67-64-1	BRL	nL	1	0.5	
Benzyl chloride	100-44-7	BRL	nL	1	0.5	
Bromodichloromethane	75-27-4	BRL	nL	1	0.5	
Bromoform	75-25-2	BRL	nL	1	0.5	
Carbon disulfide	75-15-0	BRL	nL	1	0.5	
Cyclohexane	110-82-7	BRL	nL	1	0.5	
Dibromochloromethane	124-48-1	BRL	nL	1	0.5	
Ethanol	64-17-5	BRL	nL	1	0.5	
Ethyl acetate	141-78-6	BRL	nL	1	0.5	
n-Heptane	142-82-5	BRL	nL	1	0.5	
n-Hexane	110-54-3	BRL	nL	1	0.5	
Isopropyl Alcohol	67-63-0	BRL	nL	1	0.5	
Methyl Butyl Ketone	591-78-6	BRL	nL	1	0.5	
MIBK	108-10-1	BRL	nL	1	0.5	
MTBE	1634-04-4	BRL	nL	1	0.5	
Propylene	115-07-1	BRL	nL	1	0.5	
Tetrahydrofuran	109-99-9	BRL	nL	1	0.5	
Vinyl Acetate	108-05-4	BRL	nL	1	0.5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	5	5.22	104	5	5.30	106	1.5	30	70-130	
Dichlorodifluoromethane	5	5.09	102	5	5.16	103	1.4	30	59-134	
Chloromethane	5	5.00	100	5	5.03	101	0.6	30	55-132	
1,2-Dichlorotetrafluoroetha	5	4.94	98.8	5	4.95	99	0.2	30	63-142	
Vinyl Chloride	5	4.94	98.8	5	5.04	101	2	30	61-139	
Bromomethane	5	4.96	99.2	5	4.92	98.4	0.8	30	63-134	
Chloroethane	5	4.85	97	5	4.98	99.6	2.6	30	63-127	
Trichlorofluoromethane	5	5.00	100	5	5.09	102	1.8	30	62-130	
1,1-Dichloroethylene	5	5.09	102	5	5.07	101	0.4	30	61-133	
Methylene chloride	5	4.94	98.8	5	4.97	99.4	0.6	30	62-117	
1,1,2-Trichloro-1,2,2-trifluo	5	4.97	99.4	5	5.00	100	0.6	30	60-131	
1,1-Dichloroethane	5	5.05	101	5	5.13	103	1.6	30	68-126	
cis-1,2-Dichloroethylene	5	5.20	104	5	5.22	104	0.4	30	70-131	
Chloroform	5	5.10	102	5	5.15	103	1	30	68-134	
1,2-Dichloroethane	5	5.17	103	5	5.28	106	2.1	30	65-132	
1,1,1-Trichloroethane	5	5.02	100	5	5.10	102	1.6	30	68-132	
Benzene	5	5.09	102	5	5.14	103	1	30	69-119	
Carbon tetrachloride	5	4.99	99.8	5	5.07	101	1.6	30	68-132	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24082420

Date : 8/29/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24082330

Created Date : 08/23/24

Created By : AVBembde

Samples in This QC Batch : 24082420.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dichloropropane	5	5.09	102	5	5.16	103	1.4	30	69-123	
Trichloroethylene	5	5.15	103	5	5.23	105	1.5	30	71-123	
cis-1,3-Dichloropropene	5	5.25	105	5	5.42	108	3.2	30	70-128	
trans-1,3-Dichloropropene	5	5.25	105	5	5.42	108	3.2	30	75-133	
1,1,2-Trichloroethane	5	5.14	103	5	5.22	104	1.5	30	73-119	
Toluene	5	5.24	105	5	5.36	107	2.3	30	62-127	
1,2-Dibromoethane	5	5.24	105	5	5.39	108	2.8	30	74-122	
Tetrachloroethylene	5	5.08	102	5	5.22	104	2.7	30	66-124	
Chlorobenzene	5	5.41	108	5	5.34	107	1.3	30	70-119	
Ethylbenzene	5	5.74	115	5	5.57	111	3	30	70-124	
m- & p-Xylenes	10	11.4	114	10	11.0	110	3.7	30	61-134	
Styrene	5	5.98	120	5	5.76	115	3.7	30	73-127	
o-Xylene	5	5.85	117	5	5.41	108	7.8	30	67-125	
1,1,2,2-Tetrachloroethane	5	5.91	118	5	5.53	111	6.6	30	65-127	
1,3,5-Trimethylbenzene	5	6.45	129	5	5.76	115	11.3	30	67-130	
1,2,4-Trimethylbenzene	5	6.37	127	5	5.55	111	13.8	30	66-132	
1,3-Dichlorobenzene	5	6.01	120	5	5.54	111	8.1	30	65-130	
1,4-Dichlorobenzene	5	5.77	115	5	5.35	107	7.6	30	60-131	
1,2-Dichlorobenzene	5	6.23	125	5	5.62	112	10.3	30	63-129	
1,2,4-Trichlorobenzene	5	4.81	96.2	5	4.86	97.2	1	30	41-142	
Hexachlorobutadiene	5	5.60	112	5	5.64	113	0.7	30	56-138	
Propylene	5	5.21	104	5	5.25	105	0.8	30	57-136	
1,3-Butadiene	5	5.07	101	5	5.19	104	2.3	30	60-140	
Ethanol	5	6.48	130	5	6.41	128	1.1	30	59-133	
Acetone	5	5.23	105	5	5.28	106	1	30	58-128	
Isopropyl Alcohol	5	5.67	113	5	6.03	121	6.2	30	52-134	
Carbon disulfide	5	4.99	99.8	5	5.01	100	0.4	30	57-134	
MTBE	5	6.09	122	5	6.16	123	1.1	30	66-129	
2-Butanone	5	6.11	122	5	6.20	124	1.5	30	67-130	
Ethyl acetate	5	6.11	122	5	6.20	124	1.5	30	65-128	
n-Hexane	5	5.16	103	5	5.13	103	0.6	30	63-131	
Tetrahydrofuran	5	6.37	127	5	6.37	127	0	30	60-123	L4
Cyclohexane	5	5.07	101	5	5.13	103	1.2	30	70-117	
n-Heptane	5	5.24	105	5	5.33	107	1.7	30	69-131	
MIBK	5	5.19	104	5	5.34	107	2.8	30	67-130	
Methyl Butyl Ketone	5	5.21	104	5	5.41	108	3.8	30	60-140	
Bromoform	5	5.68	114	5	5.48	110	3.6	30	66-139	
4-Ethyltoluene	5	6.44	129	5	5.78	116	10.8	30	67-129	
Benzyl chloride	5	5.79	116	5	5.53	111	4.6	30	50-147	
Bromodichloromethane	5	5.07	101	5	5.18	104	2.2	30	72-128	
Dibromochloromethane	5	5.21	104	5	5.33	107	2.3	30	70-130	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24082420

Date : 8/29/2024

Analysis : Volatile Organic Compounds in Air by GCMS	Method : EPA TO-15	Reporting Units : nL
QC Batch ID : Qb24082330	Created Date : 08/23/24	Created By : AVBembde
Samples in This QC Batch : 24082420.01		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Vinyl Acetate	5	5.04	101	5	5.18	104	2.7	30	56-139	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 24082420

Date: 8/29/2024

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RLU	Relative Light Unit
J	Estimation. Below calibration range but above MDL	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
LOD	Limit of detection adjusted for %M + DF	SQL	Below calibration range but above MDL
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit
MQL	Unadjusted Minimum Quantitation Limit		

Qualifier Definition

L4	Associated LCS and/or LCSD recovery is out of laboratory statistical acceptance limits but within method control limits for flagged parameter.
----	--



Sample Condition Checklist

A&B JobID : 24082420		Date Received : 08/22/2024		Time Received : 10:13AM								
Client Name : Permian Basin Environmental Lab, LP												
Temperature : 21.8°C		Sample pH : N/A										
Thermometer ID : 230292880		pH Paper ID : N/A										
Perservative :		Lot# :										
	Check Points				Yes	No	N/A					
1.	Cooler Seal present and signed.						X					
2.	Sample(s) in a cooler.					X						
3.	If yes, ice in cooler.						X					
4.	Sample(s) received with chain-of-custody.				X							
5.	C-O-C signed and dated.				X							
6.	Sample(s) received with signed sample custody seal.					X						
7.	Sample containers arrived intact. (If No comment)				X							
8.	Matrix:	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.	Samples were received in appropriate container(s)				X							
10.	Sample(s) were received with Proper preservative						X					
11.	All samples were tagged or labeled.				X							
12.	Sample ID labels match C-O-C ID's.				X							
13.	Bottle count on C-O-C matches bottles found.				X							
14.	Sample volume is sufficient for analyses requested.				X							
15.	Samples were received with in the hold time.				X							
16.	VOA vials completely filled.						X					
17.	Sample accepted.				X							
18.	Has client been contacted about sub-out						X					

Comments : Include actions taken to resolve discrepancies/problem:

Other: Air. Received 2 clear tedlar bags. ~MC 08/22/2024

Brought by : FedEx

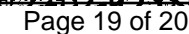
Received by : MClotfelter

Check in by/date : MClotfelter / 08/22/2024

ab-s005-1123

Phone : 713-453-6060

www.ablabs.com



ORIGIN ID:MAFA (432) 686-7235
 BRENT BARRON
 PBE LAB
 1400 RANKIN HWY
 MIDLAND, TX 79701
 UNITED STATES US

SHIP DATE: 21AUG24
 ACTWGT: 2.00 LB
 CAD: 107136846/MNET4535
 DIMS: 13x9x9 IN
 BILL SENDER

TO **SAMPLE RECEIVING**
A & B ENVIRONMENTAL SERVICES
10100 EAST FREEWAY SUITE 100

583J61A12D/9AE3

HOUSTON TX 77029

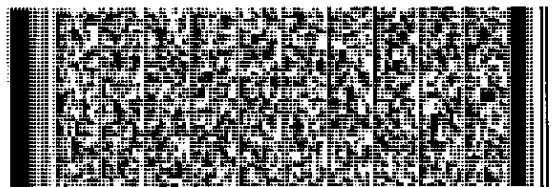
(713) 453-6060

REF:

INV:

PO:

DEPT:



FedEx
Express



TRK#

0201

7781 1002 6695

THU - 22 AUG 5:00P
STANDARD OVERNIGHT

AB HBYA

77029
TX-US IAH



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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Location: Lea County, NM
Lab Order Number: 4130007



Current Certification

Report Date: 10/11/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (092924)	4I30007-01	Air	09/29/24 15:30	09-30-2024 12:21

TO-15 analysis was subcontracted to A&B Houston. Their current certification can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/a&b_env.pdf

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

EFF-1 (092924)
4I30007-01 (Air)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

EPA TO-15									
Benzene	ND	0.200	ppm	1	P4J1103	10/01/24 00:00	10/01/24 00:00	TO-15	SUB-8
Ethylbenzene	1.39	0.500	ppm	1	P4J1103	10/01/24 00:00	10/01/24 00:00	TO-15	SUB-8
Xylene (p/m)	3.31	1.00	ppm	1	P4J1103	10/01/24 00:00	10/01/24 00:00	TO-15	SUB-8
Xylene (o)	0.770	0.500	ppm	1	P4J1103	10/01/24 00:00	10/01/24 00:00	TO-15	SUB-8
Toluene	8.51	0.500	ppm	1	P4J1103	10/01/24 00:00	10/01/24 00:00	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Notes and Definitions

SUB-8 Subcontract of analyte/analysis to A&B Labs Houston.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 10/11/2024

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Kimble Thrash

Project Name: SRS 2009-039

Company Name: Etech Environmental & Safety Solutions, Inc.

Project #: SRS 2009-039

Company Address: P.O. Box 6228

Project Loc: Lea County, NM

City/State/Zip: Midland, TX 79711

PO #:

Telephone No: (432) 563-2200

Fax No: (432) 563-2213

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.com

[illegible]

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

Please add tressa@pbelab.com to the WOA. Thank you.

Please add tressa@pbelab.com to the WOA. Thank you.						Laboratory Comments:						
						Sample Containers Intact?		Y	N			
						VOCs Free of Headspace?		Y	N			
BRENT BARRON	9/30/2024	5:00 PM	Received by:	Date	Time	Labels on container(s)		Y	N			
						Custody seals on container(s)		Y	N			
						Custody seals on cooler(s)		Y	N			
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Hand Delivered		Y	N			
						by Sampler/Client Rep. ?		Y	N			
						by Courier?	UPS	DHL	FedEx	Lone Star		
Relinquished by:	Date	Time	Received by:	Date	Time	Temperature Upon Receipt:						
						Received: °C						
						Adjusted: °C Factor						

Laboratory Analysis Report

Total Number of Pages: 13

Job ID : 24100028




10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Subcontract

Report To :	Client Name:	Permian Basin Environmental Lab, LP	P.O.#:
	Attn:	Brent Barron	Sample Collected By:
	Client Address:	1400 Rankin Hwy	Date Collected: 09/29/24
	City, State, Zip:	Midland, Texas, 79701	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
4I30007-01	Air	24100028.01


Released By: Gobinath Rangasamy
Title: Project Manager
Date: 10/08/2024

Analyst: Juan Gonzalez 


This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 10/01/2024 09:59



Job ID : 24100028

Date: 10/8/2024

Client Name : Permian Basin Environmental Lab, LP

Attn : Brent Barron

Project Name: Subcontract

Client Sample ID: 4I30007-01

Lab Sample ID: 24100028.01

Date Collected: 09/29/24


Sample Matrix: Air

Time Collected: 15:30

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	20CC	< 136.4	< 0.0250		10/01/24
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	20CC	< 171.6	< 0.0250		10/01/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	20CC	< 191.6	< 0.0250		10/01/24
	1,1,2-Trichloroethane	133.41	BRL	0.5	20CC	< 136.4	< 0.0250		10/01/24
	1,1-Dichloroethane	98.96	BRL	0.5	20CC	< 101.2	< 0.0250		10/01/24
	1,1-Dichloroethylene	96.94	BRL	0.5	20CC	< 99.1	< 0.0250		10/01/24
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	20CC	< 185.5	< 0.0250		10/01/24
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	20CC	< 122.9	< 0.0250		10/01/24
	1,2-Dibromoethane	187.87	BRL	0.5	20CC	< 192.1	< 0.0250		10/01/24
	1,2-Dichlorobenzene	147.00	BRL	0.5	20CC	< 150.3	< 0.0250		10/01/24
	1,2-Dichloroethane	98.96	BRL	0.2	20CC	< 40.5	< 0.0100		10/01/24
	1,2-Dichloropropane	112.99	BRL	0.5	20CC	< 115.5	< 0.0250		10/01/24
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	20CC	< 173.8	< 0.0250		10/01/24
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	20CC	< 122.9	< 0.0250		10/01/24
	1,3-Butadiene	54.09	BRL	0.22	20CC	< 24.3	< 0.0110		10/01/24
	1,3-Dichlorobenzene	147.00	BRL	0.5	20CC	< 150.3	< 0.0250		10/01/24
	1,4-Dichlorobenzene	147.00	BRL	0.5	20CC	< 150.3	< 0.0250		10/01/24
	2-Butanone	72.11	BRL	0.5	20CC	< 73.7	< 0.0250		10/01/24
	4-Ethyltoluene	120	BRL	0.5	20CC	< 122.7	< 0.0250		10/01/24
	Acetone ²	58.08	BRL	0.5	20CC	< 59.4	< 0.0250		10/01/24
	Benzene	78.11	BRL	0.2	20CC	< 31.9	< 0.0100		10/01/24
	Benzyl chloride	126.59	BRL	0.5	20CC	< 129.4	< 0.0250		10/01/24
	Bromodichloromethane ¹	163.83	BRL	0.5	20CC	< 167.5	< 0.0250		10/01/24
	Bromoform	252.75	BRL	0.5	20CC	< 258.4	< 0.0250		10/01/24
	Bromomethane	94.94	BRL	0.5	20CC	< 97.1	< 0.0250		10/01/24
	Carbon disulfide ²	76.14	BRL	0.5	20CC	< 77.9	< 0.0250		10/01/24
	Carbon tetrachloride	153.82	BRL	0.5	20CC	< 157.3	< 0.0250		10/01/24
	Chlorobenzene	112.56	BRL	0.5	20CC	< 115.1	< 0.0250		10/01/24
	Chloroethane	65.42	BRL	0.5	20CC	< 66.9	< 0.0250		10/01/24
	Chloroform	119.38	BRL	0.5	20CC	< 122.1	< 0.0250		10/01/24
	Chloromethane	50.49	BRL	0.5	20CC	< 51.6	< 0.0250		10/01/24
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	20CC	< 99.1	< 0.0250		10/01/24
	cis-1,3-Dichloropropene	110.97	BRL	0.5	20CC	< 113.5	< 0.0250		10/01/24
	Cyclohexane	84.16	10.16	0.5	20CC	1748.6	0.5080 E		10/01/24
	Dibromochloromethane ²	208.29	BRL	0.5	20CC	< 213.0	< 0.0250		10/01/24
	Dichlorodifluoromethane	120	BRL	0.5	20CC	< 122.7	< 0.0250		10/01/24
	Ethanol ²	46.07	BRL	0.5	20CC	< 47.1	< 0.0250		10/01/24
	Ethyl acetate ²	88.11	BRL	0.5	20CC	< 90.1	< 0.0250		10/01/24
	Ethylbenzene	106.17	1.39	0.5	20CC	301.8	0.0695		10/01/24
	Hexachlorobutadiene	258	BRL	0.5	20CC	< 263.8	< 0.0250		10/01/24

ab-q212-0321

LABORATORY TEST RESULTS									
		Job ID : 24100028				Date: 10/8/2024			
Client Name :		Permian Basin Environmental Lab, LP					Attn : Brent Barron		
Project Name:		Subcontract							
Client Sample ID:		4I30007-01			Lab Sample ID:		24100028.01		
Date Collected:		09/29/24			Sample Matrix:		Air		
Time Collected:		15:30							
Other Information:									
Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	Isopropyl Alcohol ²	60.1	BRL	0.5	20CC	< 61.5	< 0.0250		10/01/24
	m- & p-Xylenes	106.17	3.31	1	20CC	718.7	0.1655		10/01/24
	Methyl Butyl Ketone ²	100	BRL	0.5	20CC	< 102.2	< 0.0250		10/01/24
	Methylene chloride	84.93	BRL	0.5	20CC	< 86.8	< 0.0250		10/01/24
	MIBK	100.16	BRL	0.5	20CC	< 102.4	< 0.0250		10/01/24
	MTBE	88.15	BRL	0.5	20CC	< 90.1	< 0.0250		10/01/24
	n-Heptane	100.21	29.10	0.5	20CC	5963.4	1.4550 E		10/01/24
	n-Hexane	86.18	7.73	0.5	20CC	1362.3	0.3865		10/01/24
	o-Xylene	106.17	0.77	0.5	20CC	167.2	0.0385		10/01/24
	Propylene	42.08	BRL	0.5	20CC	< 43.0	< 0.0250		10/01/24
	Styrene	104	BRL	0.5	20CC	< 106.3	< 0.0250		10/01/24
	Tetrachloroethylene	165.83	BRL	0.5	20CC	< 169.6	< 0.0250		10/01/24
	Tetrahydrofuran ²	72.11	BRL	0.5	20CC	< 73.7	< 0.0250		10/01/24
	Toluene	92.14	8.51	0.5	20CC	1603.5	0.4255		10/01/24
	trans-1,2-Dichloroethylene	96.94	BRL	0.5	20CC	< 99.1	< 0.0250		10/01/24
	trans-1,3-Dichloropropene	110.97	BRL	0.5	20CC	< 113.5	< 0.0250		10/01/24
	Trichloroethylene	131.39	BRL	0.5	20CC	< 134.3	< 0.0250		10/01/24
	Trichlorofluoromethane	137.37	BRL	0.5	20CC	< 140.5	< 0.0250		10/01/24
	Vinyl Acetate	86.09	BRL	0.5	20CC	< 88.0	< 0.0250		10/01/24
	Vinyl Chloride	62.5	BRL	0.21	20CC	< 26.8	< 0.0105		10/01/24
Total [VOC] calculated			60.97			11865.4	59	3.049	

EPA TO-- 15 Sample Analysis -- GC/MS



Lab ID	24100028.01
Date Acquired	1 Oct 2024 7:48 pm
Analyst	JGONZALEZ
Sample Run ID	X100106.D
tedlar bag (cc)	1000
Injection Volume (cc)	20

Compound Name	CAS #	R.T.	M.W	Nanoliters	Vol.(L)	ug/l	ppm
Cyclopentane, methyl-	96-37-7	8.92	84	9.1	0.02	1.563	0.455
Hexane, 2-methyl-	591-76-4	10.4	100	10.7	0.02	2.188	0.535
Hexane, 3-methyl-	589-34-4	10.75	100	14.2	0.02	2.904	0.710
Cyclopentane, 1,3-dimethyl-	2453-00-1	11.183	98	8.61	0.02	1.726	0.431
Isopropylcyclobutane	872-56-0	11.28	98	11.7	0.02	2.345	0.585
Cyclohexane, methyl-	108-87-2	12.6	98	45.3	0.02	9.079	2.265
Cyclopentane, ethyl-	1640-89-7	13.026	98	2.84	0.02	0.569	0.142
Heptane, 2-methyl-	592-27-8	14.26	114	13.7	0.02	3.194	0.685
Heptane, 3-methyl-	589-81-1	14.57	114	9.6	0.02	2.238	0.480
Cyclohexane, 1,3-dimethyl-, cis	638-04-0	14.763	112	15.3	0.02	3.504	0.765
Octane	111-65-9	15.529	114	20.78	0.02	4.844	1.039
Cyclohexane, ethyl-	1678-91-7	16.712	112	11.34	0.02	2.597	0.567



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: METHOD BLANK

Analysis Date: 10/1/2024

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	µg/m ³	Analyst
TO-15	None							JG

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.

QUALITY CONTROL CERTIFICATE



Job ID : 24100028

Date : 10/8/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24100285

Created Date : 10/02/24

Created By : JGonzalez

Samples in This QC Batch : 24100028.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
trans-1,2-Dichloroethylene	156-60-5	BRL	nL	1	0.5		
Dichlorodifluoromethane	75-71-8	BRL	nL	1	0.5		
Chloromethane	74-87-3	BRL	nL	1	0.5		
1,2-Dichlorotetrafluoroetha	76-14-2	BRL	nL	1	0.5		
Vinyl Chloride	75-01-4	BRL	nL	1	0.21		
Bromomethane	74-83-9	BRL	nL	1	0.5		
Chloroethane	75-00-3	BRL	nL	1	0.5		
Trichlorofluoromethane	75-69-4	BRL	nL	1	0.5		
1,1-Dichloroethylene	75-35-4	BRL	nL	1	0.5		
Methylene chloride	75-09-2	BRL	nL	1	0.5		
1,1,2-Trichloro-1,2,2-trifluo	76-13-1	BRL	nL	1	0.5		
1,1-Dichloroethane	75-34-3	BRL	nL	1	0.5		
cis-1,2-Dichloroethylene	156-59-2	BRL	nL	1	0.5		
Chloroform	67-66-3	BRL	nL	1	0.5		
1,2-Dichloroethane	107-06-2	BRL	nL	1	0.2		
1,1,1-Trichloroethane	71-55-6	BRL	nL	1	0.5		
Benzene	71-43-2	BRL	nL	1	0.2		
Carbon tetrachloride	56-23-5	BRL	nL	1	0.5		
1,2-Dichloropropane	78-87-5	BRL	nL	1	0.5		
Trichloroethylene	79-01-6	BRL	nL	1	0.5		
cis-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5		
trans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5		
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5		
Toluene	108-88-3	BRL	nL	1	0.5		
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5		
Tetrachloroethylene	127-18-4	BRL	nL	1	0.5		
Chlorobenzene	108-90-7	BRL	nL	1	0.5		
Ethylbenzene	100-41-4	BRL	nL	1	0.5		
m- & p-Xylenes	179601-23-1	BRL	nL	1	1		
Styrene	100-42-5	BRL	nL	1	0.5		
o-Xylene	95-47-6	BRL	nL	1	0.5		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	nL	1	0.5		
1,3,5-Trimethylbenzene	108-67-8	BRL	nL	1	0.5		
1,2,4-Trimethylbenzene	95-63-6	BRL	nL	1	0.5		
1,3-Dichlorobenzene	541-73-1	BRL	nL	1	0.5		
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5		
1,2-Dichlorobenzene	95-50-1	BRL	nL	1	0.5		
1,2,4-Trichlorobenzene	120-82-1	BRL	nL	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	nL	1	0.5		
1,3-Butadiene	106-99-0	BRL	nL	1	0.22		
2-Butanone	78-93-3	BRL	nL	1	0.5		
4-Ethyltoluene	622-96-8	BRL	nL	1	0.5		

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24100028

Date : 10/8/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24100285

Created Date : 10/02/24

Created By : JGonzalez

Samples in This QC Batch : 24100028.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Acetone	67-64-1	BRL	nL	1	0.5	
Benzyl chloride	100-44-7	BRL	nL	1	0.5	
Bromodichloromethane	75-27-4	BRL	nL	1	0.5	
Bromoform	75-25-2	BRL	nL	1	0.5	
Carbon disulfide	75-15-0	BRL	nL	1	0.5	
Cyclohexane	110-82-7	BRL	nL	1	0.5	
Dibromochloromethane	124-48-1	BRL	nL	1	0.5	
Ethanol	64-17-5	BRL	nL	1	0.5	
Ethyl acetate	141-78-6	BRL	nL	1	0.5	
n-Heptane	142-82-5	BRL	nL	1	0.5	
n-Hexane	110-54-3	BRL	nL	1	0.5	
Isopropyl Alcohol	67-63-0	BRL	nL	1	0.5	
Methyl Butyl Ketone	591-78-6	BRL	nL	1	0.5	
MIBK	108-10-1	BRL	nL	1	0.5	
MTBE	1634-04-4	BRL	nL	1	0.5	
Propylene	115-07-1	BRL	nL	1	0.5	
Tetrahydrofuran	109-99-9	BRL	nL	1	0.5	
Vinyl Acetate	108-05-4	BRL	nL	1	0.5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	5	5.10	102	5	5.12	102	0.4	30	70-130	
Dichlorodifluoromethane	5	5.63	113	5	5.69	114	1.1	30	59-134	
Chloromethane	5	5.25	105	5	5.32	106	1.3	30	55-132	
1,2-Dichlorotetrafluoroetha	5	5.23	105	5	5.35	107	2.3	30	63-142	
Vinyl Chloride	5	5.18	104	5	5.22	104	0.8	30	61-139	
Bromomethane	5	5.00	100	5	5.10	102	2	30	63-134	
Chloroethane	5	5.09	102	5	5.13	103	0.8	30	63-127	
Trichlorofluoromethane	5	5.21	104	5	5.33	107	2.3	30	62-130	
1,1-Dichloroethylene	5	5.03	101	5	5.04	101	0.2	30	61-133	
Methylene chloride	5	4.95	99	5	4.99	99.8	0.8	30	62-117	
1,1,2-Trichloro-1,2,2-trifluo	5	5.15	103	5	5.23	105	1.5	30	60-131	
1,1-Dichloroethane	5	5.12	102	5	5.13	103	0.2	30	68-126	
cis-1,2-Dichloroethylene	5	4.95	99	5	4.95	99	0	30	70-131	
Chloroform	5	5.06	101	5	5.12	102	1.2	30	68-134	
1,2-Dichloroethane	5	5.29	106	5	5.31	106	0.4	30	65-132	
1,1,1-Trichloroethane	5	5.16	103	5	5.21	104	1	30	68-132	
Benzene	5	4.95	99	5	4.91	98.2	0.8	30	69-119	
Carbon tetrachloride	5	5.19	104	5	5.22	104	0.6	30	68-132	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24100028

Date : 10/8/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24100285

Created Date : 10/02/24

Created By : JGonzalez

Samples in This QC Batch : 24100028.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dichloropropane	5	5.04	101	5	5.03	101	0.2	30	69-123	
Trichloroethylene	5	5.07	101	5	5.07	101	0	30	71-123	
cis-1,3-Dichloropropene	5	4.90	98	5	4.89	97.8	0.2	30	70-128	
trans-1,3-Dichloropropene	5	4.90	98	5	4.89	97.8	0.2	30	75-133	
1,1,2-Trichloroethane	5	4.88	97.6	5	4.89	97.8	0.2	30	73-119	
Toluene	5	4.93	98.6	5	4.88	97.6	1	30	62-127	
1,2-Dibromoethane	5	4.80	96	5	4.81	96.2	0.2	30	74-122	
Tetrachloroethylene	5	5.10	102	5	5.08	102	0.4	30	66-124	
Chlorobenzene	5	4.60	92	5	4.52	90.4	1.8	30	70-119	
Ethylbenzene	5	4.67	93.4	5	4.65	93	0.4	30	70-124	
m- & p-Xylenes	10	9.38	93.8	10	9.32	93.2	0.6	30	61-134	
Styrene	5	4.51	90.2	5	4.48	89.6	0.7	30	73-127	
o-Xylene	5	4.76	95.2	5	4.70	94	1.3	30	67-125	
1,1,2,2-Tetrachloroethane	5	4.70	94	5	4.68	93.6	0.4	30	65-127	
1,3,5-Trimethylbenzene	5	4.75	95	5	4.71	94.2	0.8	30	67-130	
1,2,4-Trimethylbenzene	5	4.72	94.4	5	4.70	94	0.4	30	66-132	
1,3-Dichlorobenzene	5	4.71	94.2	5	4.74	94.8	0.6	30	65-130	
1,4-Dichlorobenzene	5	4.64	92.8	5	4.65	93	0.2	30	60-131	
1,2-Dichlorobenzene	5	4.56	91.2	5	4.51	90.2	1.1	30	63-129	
1,2,4-Trichlorobenzene	5	4.77	95.4	5	4.89	97.8	2.5	30	41-142	
Hexachlorobutadiene	5	4.97	99.4	5	5.13	103	3.2	30	56-138	
Propylene	5	5.47	109	5	5.48	110	0.2	30	57-136	
1,3-Butadiene	5	5.29	106	5	5.34	107	0.9	30	60-140	
Ethanol	5	5.09	102	5	5.28	106	3.7	30	59-133	
Acetone	5	5.07	101	5	5.16	103	1.8	30	58-128	
Isopropyl Alcohol	5	4.76	95.2	5	4.92	98.4	3.3	30	52-134	
Carbon disulfide	5	4.92	98.4	5	4.96	99.2	0.8	30	57-134	
MTBE	5	5.26	105	5	5.22	104	0.8	30	66-129	
2-Butanone	5	5.32	106	5	5.42	108	1.9	30	67-130	
Ethyl acetate	5	5.01	100	5	5.02	100	0.2	30	65-128	
n-Hexane	5	5.14	103	5	5.13	103	0.2	30	63-131	
Tetrahydrofuran	5	5.38	108	5	5.44	109	1.1	30	60-123	
Cyclohexane	5	5.17	103	5	5.12	102	1	30	70-117	
n-Heptane	5	5.36	107	5	5.39	108	0.6	30	69-131	
MIBK	5	4.96	99.2	5	5.04	101	1.6	30	67-130	
Methyl Butyl Ketone	5	4.89	97.8	5	4.91	98.2	0.4	30	60-140	
Bromoform	5	4.66	93.2	5	4.67	93.4	0.2	30	66-139	
4-Ethyltoluene	5	4.70	94	5	4.63	92.6	1.5	30	67-129	
Benzyl chloride	5	4.43	88.6	5	4.48	89.6	1.1	30	50-147	
Bromodichloromethane	5	5.06	101	5	5.10	102	0.8	30	72-128	
Dibromochloromethane	5	5.01	100	5	5.01	100	0	30	70-130	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24100028

Date : 10/8/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24100285

Created Date : 10/02/24

Created By : JGonzalez

Samples in This QC Batch : 24100028.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Vinyl Acetate	5	4.85	97	5	4.90	98	1	30	56-139	

ab-q213-0321

Refer to the Definition page for terms.

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 24100028

Date: 10/8/2024

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RLU	Relative Light Unit
J	Estimation. Below calibration range but above MDL	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
LOD	Limit of detection adjusted for %M + DF	SQL	Below calibration range but above MDL
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit
MQL	Unadjusted Minimum Quantitation Limit		

Qualifier Definition

E	Estimation. Above calibration range.
---	--------------------------------------



Sample Condition Checklist

A&B JobID : 24100028		Date Received : 10/01/2024		Time Received : 9:59AM			
Client Name : Permian Basin Environmental Lab, LP							
Temperature : 23.8°C		Sample pH : NA					
Thermometer ID : IR7		pH Paper ID : NA					
Perservative :		Lot# :					
	Check Points				Yes	No	N/A
1.	Cooler Seal present and signed.					X	
2.	Sample(s) in a cooler.				X		
3.	If yes, ice in cooler.					X	
4.	Sample(s) received with chain-of-custody.				X		
5.	C-O-C signed and dated.				X		
6.	Sample(s) received with signed sample custody seal.					X	
7.	Sample containers arrived intact. (If No comment)				X		
8.	Matrix: Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input checked="" type="checkbox"/>						
9.	Samples were received in appropriate container(s)				X		
10.	Sample(s) were received with Proper preservative						X
11.	All samples were tagged or labeled.				X		
12.	Sample ID labels match C-O-C ID's.				X		
13.	Bottle count on C-O-C matches bottles found.				X		
14.	Sample volume is sufficient for analyses requested.				X		
15.	Samples were received with in the hold time.				X		
16.	VOA vials completely filled.						X
17.	Sample accepted.				X		
18.	Has client been contacted about sub-out						X

Comments : Include actions taken to resolve discrepancies/problem:

Other: Air (clear tedlar). ~DG 10/1/24

Brought by : FedEx

Received by : DGonzalez

Check in by/date : DGonzalez / 10/01/2024

ab-s005-1123

Phone : 713-453-6060

www.ablabs.com

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard

☐ TRRP☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

Please add tressa@pbelab.com to the WOA. Thank you.

Laboratory Comments:

BRENT BARRON		9/30/2024	5:00 PM	Received by: <i>FedEx</i>	Date	Time	Sample Containers Intact? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N VOCs Free of Headspace? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Labels on container(s) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Custody seals on container(s) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Custody seals on cooler(s) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sample Hand Delivered by Sampler/Client Rep. ? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N by Courier? <input type="checkbox"/> UPS <input type="checkbox"/> DHL <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Lone Star
Relinquished by:	Date	Time	Received by:	Date	Time	Temperature Upon Receipt: Received: <i>23.8</i> °C Adjusted: <i>23.8</i> °C Factor <i>1.07 BW</i>	
Relinquished by: <i>FedEx</i>	Date <i>10/01/24</i>	Time <i>0959</i>	Received by: <i>Shinn</i>	Date <i>10/01/24</i>	Time <i>0959</i>		

ORIGIN ID:MAFA (432) 686-7235
BRENT BARRON
PBE LAB
1400 RANKIN HWY
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 30SEP24
ACTWGT: 3.00 LB
CAD: 107136846/NET4535
DIMS: 13x9x9 IN
BILL SENDER

TO **SAMPLE RECEIVING**
A & B ENVIRONMENTAL SERVICES
10100 EAST FREEWAY SUITE 100

58C12B264/C6C4

HOUSTON TX 77029

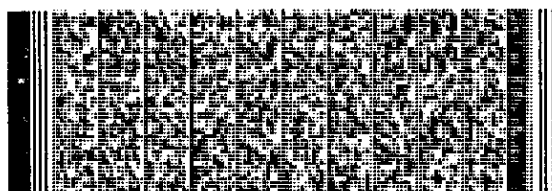
(713) 453-5060

REF-

INV:

PO:

DEPT:



FedEx
Express



TRK#
0201 7789 2480 7277

TUE - 01 OCT 5:00P
STANDARD OVERNIGHT

AB HBYA

77029

TX-US IAH



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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Location: Lea County, NM
Lab Order Number: 4J17019



Current Certification

Report Date: 11/05/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (101624)	4J17019-01	Air	10/16/24 15:15	10-17-2024 11:08

TO-15 analysis were subcontracted to A&B Houston. Their current certification can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/a&b_env.pdf

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

EFF-1 (101624)
4J17019-01 (Air)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

EPA TO-15									
Benzene	ND	0.200	ppm	1	P4K0510	10/17/24 00:00	10/18/24 00:00	TO-15	SUB-8
Ethylbenzene	0.670	0.500	ppm	1	P4K0510	10/17/24 00:00	10/18/24 00:00	TO-15	SUB-8
Xylene (p/m)	1.38	1.00	ppm	1	P4K0510	10/17/24 00:00	10/18/24 00:00	TO-15	SUB-8
Xylene (o)	ND	0.500	ppm	1	P4K0510	10/17/24 00:00	10/18/24 00:00	TO-15	SUB-8
Toluene	6.30	0.500	ppm	1	P4K0510	10/17/24 00:00	10/18/24 00:00	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Notes and Definitions

SUB-8 Subcontract of analyte/analysis to A&B Labs Houston.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 11/5/2024

Brent Barron, Laboratory Director/Technical Director

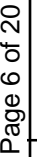
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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



Relinquished by:	Date	Time	Received by:	Date	Time	Sample Containers Intact?	Y	N
	10/17/24	11:08				VOCs Free of Headspace?	Y	N
Relinquished by:	Date	Time	Received by:	Date	Time	Labels on container(s)	Y	N
						Custody seals on container(s)	Y	N
Relinquished by:	Date	Time	Received by:	Date	Time	Custody seals on cooler(s)	Y	N
						Sample Hand Delivered	Y	N
						by Sampler/Client Rep. ?	Y	N
						by Courier? UPS DHL FedEx	Y	N
Relinquished by:	Date	Time	Received by PBEL:	Date	Time	Temperature Upon Receipt:	Y	N
				10/17/24	11:08	Received: 6.0 °C	Thermometer:	10/17/24
						Adjusted: °C	Factor:	10/17/24

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

Laboratory Analysis Report

Total Number of Pages: 13

Job ID : 24102006




10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Subcontract

Report To :	Client Name:	Permian Basin Environmental Lab, LP	P.O.#:
	Attn:	Brent Barron	Sample Collected By:
	Client Address:	1400 Rankin Hwy	Date Collected: 10/16/24
	City, State, Zip:	Midland, Texas, 79701	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
4J17019	Air	24102006.01


Released By: Gobinath Rangasamy
Title: Project Manager
Date: 10/25/2024

Analyst: Amit Bembde



This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste


I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 10/18/2024 10:08

24.1.26405



Job ID : 24102006

Date: 10/25/2024

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Attn : Brent Barron

Client Sample ID: 4J17019

Date Collected: 10/16/24

Time Collected: 15:15


Other Information:

Lab Sample ID: 24102006.01

Sample Matrix: Air

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	1CC	< 2728.0	< 0.5000		10/18/24
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	1CC	< 3432.5	< 0.5000		10/18/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	1CC	< 3831.9	< 0.5000		10/18/24
	1,1,2-Trichloroethane	133.41	BRL	0.5	1CC	< 2728.2	< 0.5000		10/18/24
	1,1-Dichloroethane	98.96	BRL	0.5	1CC	< 2023.7	< 0.5000		10/18/24
	1,1-Dichloroethylene	96.94	BRL	0.5	1CC	< 1982.4	< 0.5000		10/18/24
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	1CC	< 3710.6	< 0.5000		10/18/24
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	1CC	< 2457.9	< 0.5000		10/18/24
	1,2-Dibromoethane	187.87	BRL	0.5	1CC	< 3841.9	< 0.5000		10/18/24
	1,2-Dichlorobenzene	147.00	BRL	0.5	1CC	< 3006.1	< 0.5000		10/18/24
	1,2-Dichloroethane	98.96	BRL	0.2	1CC	< 809.5	< 0.2000		10/18/24
	1,2-Dichloropropane	112.99	BRL	0.5	1CC	< 2310.6	< 0.5000		10/18/24
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	1CC	< 3476.5	< 0.5000		10/18/24
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	1CC	< 2457.9	< 0.5000		10/18/24
	1,3-Butadiene	54.09	BRL	0.22	1CC	< 486.7	< 0.2200		10/18/24
	1,3-Dichlorobenzene	147.00	BRL	0.5	1CC	< 3006.1	< 0.5000		10/18/24
	1,4-Dichlorobenzene	147.00	BRL	0.5	1CC	< 3006.1	< 0.5000		10/18/24
	2-Butanone	72.11	BRL	0.5	1CC	< 1474.6	< 0.5000		10/18/24
	4-Ethyltoluene	120	BRL	0.5	1CC	< 2454.0	< 0.5000		10/18/24
	Acetone ²	58.08	BRL	0.5	1CC	< 1187.7	< 0.5000		10/18/24
	Benzene	78.11	BRL	0.2	1CC	< 638.9	< 0.2000		10/18/24
	Benzyl chloride	126.59	BRL	0.5	1CC	< 2588.8	< 0.5000		10/18/24
	Bromodichloromethane ¹	163.83	BRL	0.5	1CC	< 3350.3	< 0.5000		10/18/24
	Bromoform	252.75	BRL	0.5	1CC	< 5168.7	< 0.5000		10/18/24
	Bromomethane	94.94	BRL	0.5	1CC	< 1941.5	< 0.5000		10/18/24
	Carbon disulfide ²	76.14	BRL	0.5	1CC	< 1557.1	< 0.5000		10/18/24
	Carbon tetrachloride	153.82	BRL	0.5	1CC	< 3145.6	< 0.5000		10/18/24
	Chlorobenzene	112.56	BRL	0.5	1CC	< 2301.8	< 0.5000		10/18/24
	Chloroethane	65.42	BRL	0.5	1CC	< 1337.8	< 0.5000		10/18/24
	Chloroform	119.38	BRL	0.5	1CC	< 2441.3	< 0.5000		10/18/24
	Chloromethane	50.49	BRL	0.5	1CC	< 1032.5	< 0.5000		10/18/24
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	1CC	< 1982.4	< 0.5000		10/18/24
	cis-1,3-Dichloropropene	110.97	BRL	0.5	1CC	< 2269.3	< 0.5000		10/18/24
	Cyclohexane	84.16	2.31	0.5	1CC	7951.3	2.3100		10/18/24
	Dibromochloromethane ²	208.29	BRL	0.5	1CC	< 4259.5	< 0.5000		10/18/24
	Dichlorodifluoromethane	120	BRL	0.5	1CC	< 2454.0	< 0.5000		10/18/24
	Ethanol ²	46.07	BRL	0.5	1CC	< 942.1	< 0.5000		10/18/24
	Ethyl acetate ²	88.11	BRL	0.5	1CC	< 1801.8	< 0.5000		10/18/24
	Ethylbenzene	106.17	0.67	0.5	1CC	2909.4	0.6700		10/18/24
	Hexachlorobutadiene	258	BRL	0.5	1CC	< 5276.1	< 0.5000		10/18/24

ab-q212-0321

LABORATORY TEST RESULTS									
		Job ID : 24102006					Date: 10/25/2024		
Client Name :		Permian Basin Environmental Lab, LP					Attn : Brent Barron		
Project Name:		Subcontract							
Client Sample ID:		4J17019				Lab Sample ID:		24102006.01	
Date Collected:		10/16/24				Sample Matrix:		Air	
Time Collected:		15:15							
Other Information:									
Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	Isopropyl Alcohol ²	60.1	BRL	0.5	1CC	< 1229.0	< 0.5000		10/18/24
	m- & p-Xylenes	106.17	1.38	1	1CC	5992.4	1.3800		10/18/24
	Methyl Butyl Ketone ²	100	BRL	0.5	1CC	< 2045.0	< 0.5000		10/18/24
	Methylene chloride	84.93	BRL	0.5	1CC	< 1736.8	< 0.5000		10/18/24
	MIBK	100.16	BRL	0.5	1CC	< 2048.3	< 0.5000		10/18/24
	MTBE	88.15	BRL	0.5	1CC	< 1802.7	< 0.5000		10/18/24
	n-Heptane	100.21	18.27	0.5	1CC	74880.8	18.2700 E		10/18/24
	n-Hexane	86.18	1.27	0.5	1CC	4476.4	1.2700		10/18/24
	o-Xylene	106.17	BRL	0.5	1CC	< 2171.2	< 0.5000		10/18/24
	Propylene	42.08	BRL	0.5	1CC	< 860.5	< 0.5000		10/18/24
	Styrene	104	BRL	0.5	1CC	< 2126.8	< 0.5000		10/18/24
	Tetrachloroethylene	165.83	BRL	0.5	1CC	< 3391.2	< 0.5000		10/18/24
	Tetrahydrofuran ²	72.11	BRL	0.5	1CC	< 1474.6	< 0.5000		10/18/24
	Toluene	92.14	6.30	0.5	1CC	23741.6	6.3000		10/18/24
	trans-1,2-Dichloroethylene	96.94	BRL	0.5	1CC	< 1982.4	< 0.5000		10/18/24
	trans-1,3-Dichloropropene	110.97	BRL	0.5	1CC	< 2269.3	< 0.5000		10/18/24
	Trichloroethylene	131.39	BRL	0.5	1CC	< 2686.9	< 0.5000		10/18/24
	Trichlorofluoromethane	137.37	BRL	0.5	1CC	< 2809.2	< 0.5000		10/18/24
	Vinyl Acetate	86.09	BRL	0.5	1CC	< 1760.5	< 0.5000		10/18/24
	Vinyl Chloride	62.5	BRL	0.21	1CC	< 536.8	< 0.2100		10/18/24
Total [VOC] calculated			30.20			119951.959		30.200	

EPA TO-- 15 Sample Analysis -- GC/MS



Lab ID	24102006.01
Date Acquired	18 Oct 2024 1:02 pm
Analyst	Avbembde
Sample Run ID	X101712.D
tedlar bag (cc)	1000
Injection Volume (cc)	1

Compound Name	CAS #	R.T.	M.W	Nanoliters	Vol.(L)	ug/l	ppm
Hexane, 2-methyl-	591-76-4	10.4	100	4.7	0.001	19.223	4.700
Hexane, 3-methyl-	598-34-4	10.76	100	7	0.001	28.630	7.000
Cyclopentane, 1,3-dimethyl-	2453-00-1	11.183	98	3.83	0.001	15.351	3.830
Isopropylcyclobutane	872-56-0	11.28	98	5.46	0.001	21.885	5.460
Cyclohexane, methyl-	108-87-2	12.6	98	29.72	0.001	119.123	29.720
Cyclopentane, ethyl-	1640-89-7	13.026	98	5.16	0.001	20.682	5.160
Cyclopentane, 1,2,4-trimethyl-	2815-58-9	13.337	112	5.93	0.001	27.164	5.930
Cyclopentane, 1,2,3-trimethyl-	2815-57-8	13.618	112	4.4	0.001	20.155	4.400
Heptane, 2-methyl-	592-27-8	14.268	114	8.68	0.001	40.471	8.680
Heptane, 3-methyl-	589-81-1	14.559	114	4.68	0.001	21.821	4.680
Cyclohexane, 1,3-dimethyl-, cis	638-04-0	14.763	112	7.34	0.001	33.623	7.340



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: METHOD BLANK

Analysis Date: 10/17/2024

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	µg/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.

QUALITY CONTROL CERTIFICATE



Job ID : 24102006

Date : 10/25/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24101821 Created Date : 10/18/24

Created By : AVBembde

Samples in This QC Batch : 24102006.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
trans-1,2-Dichloroethylene	156-60-5	BRL	nL	1	0.5		
Dichlorodifluoromethane	75-71-8	BRL	nL	1	0.5		
Chloromethane	74-87-3	BRL	nL	1	0.5		
1,2-Dichlorotetrafluoroetha	76-14-2	BRL	nL	1	0.5		
Vinyl Chloride	75-01-4	BRL	nL	1	0.21		
Bromomethane	74-83-9	BRL	nL	1	0.5		
Chloroethane	75-00-3	BRL	nL	1	0.5		
Trichlorofluoromethane	75-69-4	BRL	nL	1	0.5		
1,1-Dichloroethylene	75-35-4	BRL	nL	1	0.5		
Methylene chloride	75-09-2	BRL	nL	1	0.5		
1,1,2-Trichloro-1,2,2-trifluo	76-13-1	BRL	nL	1	0.5		
1,1-Dichloroethane	75-34-3	BRL	nL	1	0.5		
cis-1,2-Dichloroethylene	156-59-2	BRL	nL	1	0.5		
Chloroform	67-66-3	BRL	nL	1	0.5		
1,2-Dichloroethane	107-06-2	BRL	nL	1	0.2		
1,1,1-Trichloroethane	71-55-6	BRL	nL	1	0.5		
Benzene	71-43-2	BRL	nL	1	0.2		
Carbon tetrachloride	56-23-5	BRL	nL	1	0.5		
1,2-Dichloropropane	78-87-5	BRL	nL	1	0.5		
Trichloroethylene	79-01-6	BRL	nL	1	0.5		
cis-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5		
trans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5		
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5		
Toluene	108-88-3	BRL	nL	1	0.5		
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5		
Tetrachloroethylene	127-18-4	BRL	nL	1	0.5		
Chlorobenzene	108-90-7	BRL	nL	1	0.5		
Ethylbenzene	100-41-4	BRL	nL	1	0.5		
m- & p-Xylenes	179601-23-1	BRL	nL	1	1		
Styrene	100-42-5	BRL	nL	1	0.5		
o-Xylene	95-47-6	BRL	nL	1	0.5		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	nL	1	0.5		
1,3,5-Trimethylbenzene	108-67-8	BRL	nL	1	0.5		
1,2,4-Trimethylbenzene	95-63-6	BRL	nL	1	0.5		
1,3-Dichlorobenzene	541-73-1	BRL	nL	1	0.5		
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5		
1,2-Dichlorobenzene	95-50-1	BRL	nL	1	0.5		
1,2,4-Trichlorobenzene	120-82-1	BRL	nL	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	nL	1	0.5		
1,3-Butadiene	106-99-0	BRL	nL	1	0.22		
2-Butanone	78-93-3	BRL	nL	1	0.5		
4-Ethyltoluene	622-96-8	BRL	nL	1	0.5		

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24102006

Date : 10/25/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24101821

Created Date : 10/18/24

Created By : AVBembde

Samples in This QC Batch : 24102006.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Acetone	67-64-1	BRL	nL	1	0.5	
Benzyl chloride	100-44-7	BRL	nL	1	0.5	
Bromodichloromethane	75-27-4	BRL	nL	1	0.5	
Bromoform	75-25-2	BRL	nL	1	0.5	
Carbon disulfide	75-15-0	BRL	nL	1	0.5	
Cyclohexane	110-82-7	BRL	nL	1	0.5	
Dibromochloromethane	124-48-1	BRL	nL	1	0.5	
Ethanol	64-17-5	BRL	nL	1	0.5	
Ethyl acetate	141-78-6	BRL	nL	1	0.5	
n-Heptane	142-82-5	BRL	nL	1	0.5	
n-Hexane	110-54-3	BRL	nL	1	0.5	
Isopropyl Alcohol	67-63-0	BRL	nL	1	0.5	
Methyl Butyl Ketone	591-78-6	BRL	nL	1	0.5	
MIBK	108-10-1	BRL	nL	1	0.5	
MTBE	1634-04-4	BRL	nL	1	0.5	
Propylene	115-07-1	BRL	nL	1	0.5	
Tetrahydrofuran	109-99-9	BRL	nL	1	0.5	
Vinyl Acetate	108-05-4	BRL	nL	1	0.5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	5	5.11	102	5	5.24	105	2.5	30	70-130	
Dichlorodifluoromethane	5	5.23	105	5	5.27	105	0.8	30	59-134	
Chloromethane	5	5.17	103	5	5.29	106	2.3	30	55-132	
1,2-Dichlorotetrafluoroetha	5	5.18	104	5	5.30	106	2.3	30	63-142	
Vinyl Chloride	5	5.23	105	5	5.33	107	1.9	30	61-139	
Bromomethane	5	5.02	100	5	5.20	104	3.5	30	63-134	
Chloroethane	5	5.12	102	5	5.34	107	4.2	30	63-127	
Trichlorofluoromethane	5	5.01	100	5	5.11	102	2	30	62-130	
1,1-Dichloroethylene	5	5.08	102	5	5.26	105	3.5	30	61-133	
Methylene chloride	5	4.97	99.4	5	5.11	102	2.8	30	62-117	
1,1,2-Trichloro-1,2,2-trifluo	5	5.01	100	5	5.11	102	2	30	60-131	
1,1-Dichloroethane	5	5.16	103	5	5.31	106	2.9	30	68-126	
cis-1,2-Dichloroethylene	5	4.95	99	5	5.19	104	4.7	30	70-131	
Chloroform	5	4.94	98.8	5	4.98	99.6	0.8	30	68-134	
1,2-Dichloroethane	5	4.84	96.8	5	4.90	98	1.2	30	65-132	
1,1,1-Trichloroethane	5	4.85	97	5	4.90	98	1	30	68-132	
Benzene	5	4.88	97.6	5	5.04	101	3.2	30	69-119	
Carbon tetrachloride	5	4.79	95.8	5	4.87	97.4	1.7	30	68-132	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24102006

Date : 10/25/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24101821

Created Date : 10/18/24

Created By : AVBembde

Samples in This QC Batch : 24102006.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dichloropropane	5	4.93	98.6	5	5.07	101	2.8	30	69-123	
Trichloroethylene	5	4.92	98.4	5	5.04	101	2.4	30	71-123	
cis-1,3-Dichloropropene	5	4.69	93.8	5	4.85	97	3.4	30	70-128	
trans-1,3-Dichloropropene	5	4.69	93.8	5	4.85	97	3.4	30	75-133	
1,1,2-Trichloroethane	5	4.68	93.6	5	4.87	97.4	4	30	73-119	
Toluene	5	4.84	96.8	5	5.01	100	3.4	30	62-127	
1,2-Dibromoethane	5	4.48	89.6	5	4.65	93	3.7	30	74-122	
Tetrachloroethylene	5	4.84	96.8	5	4.97	99.4	2.6	30	66-124	
Chlorobenzene	5	4.46	89.2	5	4.64	92.8	4	30	70-119	
Ethylbenzene	5	4.46	89.2	5	4.59	91.8	2.9	30	70-124	
m- & p-Xylenes	10	8.95	89.5	10	9.37	93.7	4.6	30	61-134	
Styrene	5	4.24	84.8	5	4.46	89.2	5.1	30	73-127	
o-Xylene	5	4.47	89.4	5	4.66	93.2	4.2	30	67-125	
1,1,2,2-Tetrachloroethane	5	4.15	83	5	4.43	88.6	6.5	30	65-127	
1,3,5-Trimethylbenzene	5	4.18	83.6	5	4.42	88.4	5.6	30	67-130	
1,2,4-Trimethylbenzene	5	4.09	81.8	5	4.35	87	6.2	30	66-132	
1,3-Dichlorobenzene	5	3.92	78.4	5	4.29	85.8	9	30	65-130	
1,4-Dichlorobenzene	5	3.84	76.8	5	4.18	83.6	8.5	30	60-131	
1,2-Dichlorobenzene	5	3.69	73.8	5	4.03	80.6	8.8	30	63-129	
1,2,4-Trichlorobenzene	5	3.98	79.6	5	4.72	94.4	17	30	41-142	
Hexachlorobutadiene	5	3.97	79.4	5	4.57	91.4	14.1	30	56-138	
Propylene	5	5.14	103	5	5.19	104	1	30	57-136	
1,3-Butadiene	5	5.36	107	5	5.49	110	2.4	30	60-140	
Ethanol	5	4.95	99	5	5.21	104	5.1	30	59-133	
Acetone	5	5.16	103	5	5.21	104	1	30	58-128	
Isopropyl Alcohol	5	4.16	83.2	5	4.72	94.4	12.6	30	52-134	
Carbon disulfide	5	4.97	99.4	5	5.13	103	3.2	30	57-134	
MTBE	5	5.29	106	5	5.46	109	3.2	30	66-129	
2-Butanone	5	5.24	105	5	5.44	109	3.8	30	67-130	
Ethyl acetate	5	5.16	103	5	5.34	107	3.4	30	65-128	
n-Hexane	5	5.27	105	5	5.37	107	1.9	30	63-131	
Tetrahydrofuran	5	5.20	104	5	5.41	108	4	30	60-123	
Cyclohexane	5	5.16	103	5	5.27	105	2.1	30	70-117	
n-Heptane	5	5.16	103	5	5.26	105	1.9	30	69-131	
MIBK	5	3.65	73	5	4.06	81.2	10.6	30	67-130	
Methyl Butyl Ketone	5	3.63	72.6	5	3.85	77	5.9	30	60-140	
Bromoform	5	4.09	81.8	5	4.31	86.2	5.2	30	66-139	
4-Ethyltoluene	5	4.12	82.4	5	4.37	87.4	5.9	30	67-129	
Benzyl chloride	5	3.54	70.8	5	4.00	80	12.2	30	50-147	
Bromodichloromethane	5	4.74	94.8	5	4.84	96.8	2.1	30	72-128	
Dibromochloromethane	5	4.56	91.2	5	4.69	93.8	2.8	30	70-130	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24102006

Date : 10/25/2024

Analysis : Volatile Organic Compounds in Air by GCMS	Method : EPA TO-15	Reporting Units : nL
QC Batch ID : Qb24101821	Created Date : 10/18/24	Created By : AVBembde
Samples in This QC Batch : 24102006.01		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Vinyl Acetate	5	4.65	93	5	4.83	96.6	3.8	30	56-139	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 24102006

Date: 10/25/2024

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RLU	Relative Light Unit
J	Estimation. Below calibration range but above MDL	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
LOD	Limit of detection adjusted for %M + DF	SQL	Below calibration range but above MDL
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit
MQL	Unadjusted Minimum Quantitation Limit		

Qualifier Definition

E	Estimation. Above calibration range.
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Sample Condition Checklist

A&B JobID : 24102006		Date Received : 10/18/2024		Time Received : 10:08AM			
Client Name : Permian Basin Environmental Lab, LP							
Temperature : 20.1°C		Sample pH : N/A					
Thermometer ID : 230292880		pH Paper ID : N/A					
Perservative :		Lot# :					
	Check Points				Yes	No	N/A
1.	Cooler Seal present and signed.					X	
2.	Sample(s) in a cooler.				X		
3.	If yes, ice in cooler.				X		
4.	Sample(s) received with chain-of-custody.				X		
5.	C-O-C signed and dated.				X		
6.	Sample(s) received with signed sample custody seal.					X	
7.	Sample containers arrived intact. (If No comment)				X		
8.	Matrix: Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input checked="" type="checkbox"/>						
9.	Samples were received in appropriate container(s)				X		
10.	Sample(s) were received with Proper preservative						X
11.	All samples were tagged or labeled.				X		
12.	Sample ID labels match C-O-C ID's.				X		
13.	Bottle count on C-O-C matches bottles found.				X		
14.	Sample volume is sufficient for analyses requested.				X		
15.	Samples were received with in the hold time.				X		
16.	VOA vials completely filled.						X
17.	Sample accepted.				X		
18.	Has client been contacted about sub-out						X

Comments : Include actions taken to resolve discrepancies/problem:

Other: Air. Received 2 clear tedlar bags. ~MC 10/18/2024

Brought by : FedEx

Received by : MClotfelter

Check in by/date : MClotfelter / 10/18/2024

ab-s005-1123

Phone : 713-453-6060

www.ablabs.com

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard

☐ TRRP

NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

Job ID:24102006



10/18/2024 Permian Basin Environment AMS

ORDER #:																											
LAB # (lab use only)																											
		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers								Matrix											
								ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	NaOH/Zn	NONE 500ML POLY 250 MIL POLY 500 ML MM AMBER GLASS	NONE	DW=Drinking Water S=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TO-15	Analyze For:									
01AB	4J17019			10/16/2024	15:15		2								X	AIR	X										

Please add tressa@pbelab.com to the WOA. Thank you.

BRENT BARRON	10/17/2024	5:00 PM	Received by: <i>Federer</i>	Date	Time	Laboratory Comments: Sample Containers Intact? Y N VOCs Free of Headspace? Y N Labels on container(s) Y N Custody seals on container(s) Y N Custody seals on cooler(s) Y N Sample Hand Delivered Y N by Sampler/Client Rep.? Y N by Courier? UPS DHL FedEx Lone Star Temperature Upon Receipt: Received: 20.1 °C Adjusted: 20.1 °C Factor <i>23092880</i> <i>FA7 DC</i>
Relinquished by: <i>Federer</i>	Date 10/18/24	Time 1008	Received by:	Date	Time	
Relinquished by:	Date	Time	Received by: <i>Mail</i>	Date 10/16/24	Time 1008	

ORIGIN ID:MAFA (432) 686-7235
TRESSA BLEDSOE
PERMAN BASIN ENVIRONMENTAL LAB, LP
1400 RANKIN HWY

MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 17OCT24
ACTWGT: 2.00 LB
CAD: 107136846/INET4535
DIMS: 13x9x9 IN

BILL SENDER

TO **SAMPLE RECEIVING**
A & B ENVIRONMENTAL SERVICES
10100 EAST FREEWAY SUITE 100

HOUSTON TX 77029

(713) 453-6060

REF:

INV:

PO:

DEPT:



FedEx
Express



324424691001aw

TRK# 7793 3640 4101
0201

FRI - 18 OCT 5:00P
STANDARD OVERNIGHT

AB HBYA

77029

TX-US IAH



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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Location: Lea County, NM
Lab Order Number: 4K14004



Current Certification

Report Date: 12/10/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (111424)	4K14004-01	Air	11/14/24 12:30	11-14-2024 16:15

TO-15 analysis was subcontracted to A&B Houston. Their current certification can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/a&b_env.pdf

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

EFF-1 (111424)

4K14004-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

EPA TO-15

1,1,1-Trichloroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,1,2,2-Tetrachloroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,1,2-Trichloroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,1-Dichloroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,1-Dichloroethene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,2,4-Trichlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,2,4-Trimethylbenzene	2.95	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,2-Dibromoethane (EDB)	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,2-Dichlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,2-Dichloroethane	ND	1.00	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,2-Dichloropropane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,2-Dichlorotetrafluoroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,3,5-Trimethylbenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,3-Butadiene	ND	1.10	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,3-Dichlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
1,4-Dichlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
2-Butanone	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
4-Ethyltoluene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Acetone	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Benzene	8.55	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Benzyl Chloride	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Bromodichloromethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Bromoform	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Bromomethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Carbon disulfide	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Carbon tetrachloride	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Chlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Chloroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Chloroform	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Chloromethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
cis-1,2-Dichloroethene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
cis-1,3-Dichloropropene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Cyclohexane	4.75	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Dibromochloromethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Dichlorodifluoromethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Ethanol	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Ethyl Acetate	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

EFF-1 (111424)**4K14004-01 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**EPA TO-15**

Ethylbenzene	8.45	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Hexachlorobutadiene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Isopropyl alcohol	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Xylene (p/m)	29.0	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Methyl Butyl Ketone	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Methylene chloride	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
MIBK	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Methyl tert-butyl ether	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
n-Heptane	11.2	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
n-Hexane	3.05	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Xylene (o)	10.4	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Propylene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Styrene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Tetrachloroethene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Tetrahydrofuran	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Toluene	29.8	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
trans-1,2-Dichloroethylene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
trans-1,3-Dichloropropene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Trichloroethylene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Trichlorofluoromethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Vinyl acetate	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8
Vinyl chloride	ND	1.05	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Notes and Definitions

SUB-8 Subcontract of analyte/analysis to A&B Labs Houston.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 12/10/2024

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



Phone: 432-686-7235

e-mail: kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.com

[illegible]

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

Laboratory Analysis Report

Total Number of Pages: 14

Job ID : 24111780




10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Subcontract

Report To :	Client Name:	Permian Basin Environmental Lab, LP	P.O.#:
	Attn:	Brent Barron	Sample Collected By:
	Client Address:	1400 Rankin Hwy	Date Collected: 11/14/24
	City, State, Zip:	Midland, Texas, 79701	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
4K14004	Air	24111780.01


Released By: Gobinath Rangasamy
Title: Project Manager
Date: 11/22/2024

Analyst: Amit Bembde



This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste


I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 11/15/2024 10:29

24.1.17578



Job ID : 24111780

Date: 11/22/2024

Client Name : Permian Basin Environmental Lab, LP

Attn : Brent Barron

Project Name: Subcontract

Client Sample ID: 4K14004

Lab Sample ID: 24111780.01

Date Collected: 11/14/24


Sample Matrix: Air

Time Collected: 12:30

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	0.2CC	13640.1	< 2.5000		11/15/24
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	0.2CC	17162.6	< 2.5000		11/15/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	0.2CC	19159.5	< 2.5000		11/15/24
	1,1,2-Trichloroethane	133.41	BRL	0.5	0.2CC	13641.1	< 2.5000		11/15/24
	1,1-Dichloroethane	98.96	BRL	0.5	0.2CC	10118.6	< 2.5000		11/15/24
	1,1-Dichloroethylene	96.94	BRL	0.5	0.2CC	< 9912.1	< 2.5000		11/15/24
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	0.2CC	18553.2	< 2.5000		11/15/24
	1,2,4-Trimethylbenzene	120.19	0.59	0.5	0.2CC	14501.5	2.9500		11/15/24
	1,2-Dibromoethane	187.87	BRL	0.5	0.2CC	19209.6	< 2.5000		11/15/24
	1,2-Dichlorobenzene	147.00	BRL	0.5	0.2CC	15030.7	< 2.5000		11/15/24
	1,2-Dichloroethane	98.96	BRL	0.2	0.2CC	< 4047.4	< 1.0000		11/15/24
	1,2-Dichloropropane	112.99	BRL	0.5	0.2CC	11553.2	< 2.5000		11/15/24
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	0.2CC	17382.4	< 2.5000		11/15/24
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	0.2CC	12289.4	< 2.5000		11/15/24
	1,3-Butadiene	54.09	BRL	0.22	0.2CC	< 2433.5	< 1.1000		11/15/24
	1,3-Dichlorobenzene	147.00	BRL	0.5	0.2CC	15030.7	< 2.5000		11/15/24
	1,4-Dichlorobenzene	147.00	BRL	0.5	0.2CC	15030.7	< 2.5000		11/15/24
	2-Butanone	72.11	BRL	0.5	0.2CC	< 7373.2	< 2.5000		11/15/24
	4-Ethyltoluene	120	BRL	0.5	0.2CC	12269.9	< 2.5000		11/15/24
	Acetone ²	58.08	BRL	0.5	0.2CC	< 5938.7	< 2.5000		11/15/24
	Benzene	78.11	1.71	0.2	0.2CC	27314.5	8.5500		11/15/24
	Benzyl chloride	126.59	BRL	0.5	0.2CC	12943.8	< 2.5000		11/15/24
	Bromodichloromethane ¹	163.83	BRL	0.5	0.2CC	16751.5	< 2.5000		11/15/24
	Bromoform	252.75	BRL	0.5	0.2CC	25843.6	< 2.5000		11/15/24
	Bromomethane	94.94	BRL	0.5	0.2CC	< 9707.6	< 2.5000		11/15/24
	Carbon disulfide ²	76.14	BRL	0.5	0.2CC	< 7785.3	< 2.5000		11/15/24

ab-q212-0321



Job ID : 24111780

Date: 11/22/2024

Client Name : Permian Basin Environmental Lab, LP

Attn : Brent Barron

Project Name: Subcontract

Client Sample ID: 4K14004

Lab Sample ID: 24111780.01

Date Collected: 11/14/24


Sample Matrix: Air

Time Collected: 12:30

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	Carbon tetrachloride	153.82	BRL	0.5	0.2CC	15728.0	< 2.5000		11/15/24
	Chlorobenzene	112.56	BRL	0.5	0.2CC	11509.2	< 2.5000		11/15/24
	Chloroethane	65.42	BRL	0.5	0.2CC	< 6689.2	< 2.5000		11/15/24
	Chloroform	119.38	BRL	0.5	0.2CC	12206.5	< 2.5000		11/15/24
	Chloromethane	50.49	BRL	0.5	0.2CC	< 5162.6	< 2.5000		11/15/24
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	0.2CC	< 9912.1	< 2.5000		11/15/24
	cis-1,3-Dichloropropene	110.97	BRL	0.5	0.2CC	11346.6	< 2.5000		11/15/24
	Cyclohexane	84.16	0.95	0.5	0.2CC	16350.1	4.7500		11/15/24
	Dibromochloromethane ²	208.29	BRL	0.5	0.2CC	21297.5	< 2.5000		11/15/24
	Dichlorodifluoromethane	120	BRL	0.5	0.2CC	12269.9	< 2.5000		11/15/24
	Ethanol ²	46.07	BRL	0.5	0.2CC	< 4710.6	< 2.5000		11/15/24
	Ethyl acetate ²	88.11	BRL	0.5	0.2CC	< 9009.2	< 2.5000		11/15/24
	Ethylbenzene	106.17	1.69	0.5	0.2CC	36692.7	8.4500		11/15/24
	Hexachlorobutadiene	258	BRL	0.5	0.2CC	26380.4	< 2.5000		11/15/24
	Isopropyl Alcohol ²	60.1	BRL	0.5	0.2CC	< 6145.2	< 2.5000		11/15/24
	m- & p-Xylenes	106.17	5.79	1	0.2CC	125710.5	28.9500		11/15/24
	Methyl Butyl Ketone ²	100	BRL	0.5	0.2CC	10224.9	< 2.5000		11/15/24
	Methylene chloride	84.93	BRL	0.5	0.2CC	< 8684.0	< 2.5000		11/15/24
	MIBK	100.16	BRL	0.5	0.2CC	10241.3	< 2.5000		11/15/24
	MTBE	88.15	BRL	0.5	0.2CC	< 9013.3	< 2.5000		11/15/24
	n-Heptane	100.21	2.24	0.5	0.2CC	45904.0	11.2000		11/15/24
	n-Hexane	86.18	0.61	0.5	0.2CC	10750.5	3.0500		11/15/24
	o-Xylene	106.17	2.08	0.5	0.2CC	45160.2	10.4000		11/15/24
	Propylene	42.08	BRL	0.5	0.2CC	< 4302.7	< 2.5000		11/15/24
	Styrene	104	BRL	0.5	0.2CC	10633.9	< 2.5000		11/15/24
	Tetrachloroethylene	165.83	BRL	0.5	0.2CC	16956.0	< 2.5000		11/15/24
	Tetrahydrofuran ²	72.11	BRL	0.5	0.2CC	< 7373.2	< 2.5000		11/15/24
	Toluene	92.14	5.96	0.5	0.2CC	112301.5	29.8000		11/15/24
	trans-1,2-Dichloroethylene	96.94	BRL	0.5	0.2CC	< 9912.1	< 2.5000		11/15/24

ab-q212-0321



Job ID : 24111780

Date: 11/22/2024

Client Name :		Permian Basin Environmental Lab, LP					Attn : Brent Barron		
Project Name:		Subcontract							
Client Sample ID:		4K14004				Lab Sample ID:		24111780.01	
Date Collected:		11/14/24				Sample Matrix:		Air	
Time Collected:		12:30							
Other Information:									
Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	trans-1,3-Dichloropropene	110.97	BRL	0.5	0.2CC	11346.6	< 2.5000		11/15/24
	Trichloroethylene	131.39	BRL	0.5	0.2CC	13434.6	< 2.5000		11/15/24
	Trichlorofluoromethane	137.37	BRL	0.5	0.2CC	14046.0	< 2.5000		11/15/24
	Vinyl Acetate	86.09	BRL	0.5	0.2CC	< 8802.7	< 2.5000		11/15/24
	Vinyl Chloride	62.5	BRL	0.21	0.2CC	< 2684.0	< 1.0500		11/15/24
Total [VOC] calculated			21.62			434685.481	108.100		

EPA TO-- 15 Sample Analysis -- GC/MS



Lab ID	24111780.01
Date Acquired	15 Nov 2024 5:01 pm
Analyst	AVBEMBDE
Sample Run ID	X111507.D
tedlar bag (cc)	1000
Injection Volume (cc)	0.2

Compound Name	CAS #	R.T.	M.W	Nanoliters	Vol.(L)	ug/l	ppm
Cyclohexane, methyl-	108-87-2	12.6	98	3.3	0.0002	66.135	16.500
Heptane, 2-methyl-	592-27-8	14.268	114	1.6	0.0002	37.301	8.000
Heptane, 3-methyl-	589-81-1	14.55	114	1.1	0.0002	25.644	5.500
Octane	111-65-9	17.6	114	5	0.0002	116.564	25.000
Nonane	111-84-2	18.57	128	3.6	0.0002	94.233	18.000



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: Method Blank
Analysis Date: 11/15/2024

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	µg/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.
**The values are estimated relative to the nearest internal standards and only major peaks are reported.

QUALITY CONTROL CERTIFICATE



Job ID : 24111780

Date : 11/22/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb241121106 Created Date : 11/21/24

Created By : AVBembde

Samples in This QC Batch : 24111780.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
trans-1,2-Dichloroethylene	156-60-5	BRL	nL	1	0.5		
Dichlorodifluoromethane	75-71-8	BRL	nL	1	0.5		
Chloromethane	74-87-3	BRL	nL	1	0.5		
1,2-Dichlorotetrafluoroetha	76-14-2	BRL	nL	1	0.5		
Vinyl Chloride	75-01-4	BRL	nL	1	0.21		
Bromomethane	74-83-9	BRL	nL	1	0.5		
Chloroethane	75-00-3	BRL	nL	1	0.5		
Trichlorofluoromethane	75-69-4	BRL	nL	1	0.5		
1,1-Dichloroethylene	75-35-4	BRL	nL	1	0.5		
Methylene chloride	75-09-2	BRL	nL	1	0.5		
1,1,2-Trichloro-1,2,2-trifluo	76-13-1	BRL	nL	1	0.5		
1,1-Dichloroethane	75-34-3	BRL	nL	1	0.5		
cis-1,2-Dichloroethylene	156-59-2	BRL	nL	1	0.5		
Chloroform	67-66-3	BRL	nL	1	0.5		
1,2-Dichloroethane	107-06-2	BRL	nL	1	0.2		
1,1,1-Trichloroethane	71-55-6	BRL	nL	1	0.5		
Benzene	71-43-2	BRL	nL	1	0.2		
Carbon tetrachloride	56-23-5	BRL	nL	1	0.5		
1,2-Dichloropropane	78-87-5	BRL	nL	1	0.5		
Trichloroethylene	79-01-6	BRL	nL	1	0.5		
cis-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5		
trans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5		
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5		
Toluene	108-88-3	BRL	nL	1	0.5		
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5		
Tetrachloroethylene	127-18-4	BRL	nL	1	0.5		
Chlorobenzene	108-90-7	BRL	nL	1	0.5		
Ethylbenzene	100-41-4	BRL	nL	1	0.5		
m- & p-Xylenes	179601-23-1	BRL	nL	1	1		
Styrene	100-42-5	BRL	nL	1	0.5		
o-Xylene	95-47-6	BRL	nL	1	0.5		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	nL	1	0.5		
1,3,5-Trimethylbenzene	108-67-8	BRL	nL	1	0.5		
1,2,4-Trimethylbenzene	95-63-6	BRL	nL	1	0.5		
1,3-Dichlorobenzene	541-73-1	BRL	nL	1	0.5		
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5		
1,2-Dichlorobenzene	95-50-1	BRL	nL	1	0.5		
1,2,4-Trichlorobenzene	120-82-1	BRL	nL	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	nL	1	0.5		
1,3-Butadiene	106-99-0	BRL	nL	1	0.22		
2-Butanone	78-93-3	BRL	nL	1	0.5		
4-Ethyltoluene	622-96-8	BRL	nL	1	0.5		

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24111780

Date : 11/22/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb241121106 Created Date : 11/21/24

Created By : AVBembde

Samples in This QC Batch : 24111780.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Acetone	67-64-1	BRL	nL	1	0.5		
Benzyl chloride	100-44-7	BRL	nL	1	0.5		
Bromodichloromethane	75-27-4	BRL	nL	1	0.5		
Bromoform	75-25-2	BRL	nL	1	0.5		
Carbon disulfide	75-15-0	BRL	nL	1	0.5		
Cyclohexane	110-82-7	BRL	nL	1	0.5		
Dibromochloromethane	124-48-1	BRL	nL	1	0.5		
Ethanol	64-17-5	BRL	nL	1	0.5		
Ethyl acetate	141-78-6	BRL	nL	1	0.5		
n-Heptane	142-82-5	BRL	nL	1	0.5		
n-Hexane	110-54-3	BRL	nL	1	0.5		
Isopropyl Alcohol	67-63-0	BRL	nL	1	0.5		
Methyl Butyl Ketone	591-78-6	BRL	nL	1	0.5		
MIBK	108-10-1	BRL	nL	1	0.5		
MTBE	1634-04-4	BRL	nL	1	0.5		
Propylene	115-07-1	BRL	nL	1	0.5		
Tetrahydrofuran	109-99-9	BRL	nL	1	0.5		
Vinyl Acetate	108-05-4	BRL	nL	1	0.5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	5	4.55	91	5	4.65	93	2.2	30	67-124	
Dichlorodifluoromethane	5	5.79	116	5	5.96	119	2.9	30	59-128	
Chloromethane	5	4.89	97.8	5	4.98	99.6	1.8	30	59-132	
1,2-Dichlorotetrafluoroetha	5	5.11	102	5	5.19	104	1.6	30	63-121	
Vinyl Chloride	5	4.83	96.6	5	4.89	97.8	1.2	30	64-127	
Bromomethane	5	4.65	93	5	4.69	93.8	0.9	30	63-134	
Chloroethane	5	4.61	92.2	5	4.58	91.6	0.7	30	63-127	
Trichlorofluoromethane	5	4.98	99.6	5	5.15	103	3.4	30	62-126	
1,1-Dichloroethylene	5	4.51	90.2	5	4.54	90.8	0.7	30	61-133	
Methylene chloride	5	4.34	86.8	5	4.39	87.8	1.2	30	62-115	
1,1,2-Trichloro-1,2,2-trifluo	5	4.61	92.2	5	4.72	94.4	2.4	30	66-126	
1,1-Dichloroethane	5	4.59	91.8	5	4.68	93.6	1.9	30	68-126	
cis-1,2-Dichloroethylene	5	4.43	88.6	5	4.47	89.4	0.9	30	70-121	
Chloroform	5	4.57	91.4	5	4.65	93	1.7	30	68-134	
1,2-Dichloroethane	5	4.86	97.2	5	4.95	99	1.8	30	65-128	
1,1,1-Trichloroethane	5	4.94	98.8	5	5.05	101	2.2	30	68-125	
Benzene	5	4.52	90.4	5	4.58	91.6	1.3	30	69-119	
Carbon tetrachloride	5	5.07	101	5	5.20	104	2.5	30	68-132	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24111780

Date : 11/22/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb241121106 Created Date : 11/21/24

Created By : AVBembde

Samples in This QC Batch : 24111780.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dichloropropane	5	4.53	90.6	5	4.54	90.8	0.2	30	69-123	
Trichloroethylene	5	4.67	93.4	5	4.70	94	0.6	30	71-123	
cis-1,3-Dichloropropene	5	4.74	94.8	5	4.76	95.2	0.4	30	70-128	
trans-1,3-Dichloropropene	5	4.74	94.8	5	4.76	95.2	0.4	30	75-133	
1,1,2-Trichloroethane	5	4.47	89.4	5	4.56	91.2	2	30	73-119	
Toluene	5	4.65	93	5	4.62	92.4	0.6	30	66-119	
1,2-Dibromoethane	5	4.56	91.2	5	4.62	92.4	1.3	30	74-122	
Tetrachloroethylene	5	5.06	101	5	5.14	103	1.6	30	66-124	
Chlorobenzene	5	4.52	90.4	5	4.63	92.6	2.4	30	70-119	
Ethylbenzene	5	4.61	92.2	5	4.61	92.2	0	30	70-124	
m- & p-Xylenes	10	9.15	91.5	10	9.16	91.6	0.1	30	61-134	
Styrene	5	4.56	91.2	5	4.55	91	0.2	30	73-127	
o-Xylene	5	4.68	93.6	5	4.58	91.6	2.2	30	67-125	
1,1,2,2-Tetrachloroethane	5	4.50	90	5	4.48	89.6	0.4	30	65-127	
1,3,5-Trimethylbenzene	5	5.17	103	5	4.82	96.4	7	30	67-130	
1,2,4-Trimethylbenzene	5	5.25	105	5	4.83	96.6	8.3	30	66-132	
1,3-Dichlorobenzene	5	4.92	98.4	5	4.71	94.2	4.4	30	65-130	
1,4-Dichlorobenzene	5	4.76	95.2	5	4.53	90.6	5	30	60-131	
1,2-Dichlorobenzene	5	5.04	101	5	4.69	93.8	7.2	30	63-129	
1,2,4-Trichlorobenzene	5	5.08	102	5	5.52	110	8.3	30	41-142	
Hexachlorobutadiene	5	5.07	101	5	5.34	107	5.2	30	56-138	
Propylene	5	5.05	101	5	5.19	104	2.7	30	57-136	
1,3-Butadiene	5	4.64	92.8	5	4.77	95.4	2.8	30	66-134	
Ethanol	5	4.68	93.6	5	5.11	102	8.8	30	59-125	
Acetone	5	4.39	87.8	5	4.54	90.8	3.4	30	58-128	
Isopropyl Alcohol	5	4.30	86	5	4.82	96.4	11.4	30	52-134	
Carbon disulfide	5	4.21	84.2	5	4.29	85.8	1.9	30	57-134	
MTBE	5	4.95	99	5	5.01	100	1.2	30	66-126	
2-Butanone	5	4.24	84.8	5	4.39	87.8	3.5	30	67-130	
Ethyl acetate	5	4.37	87.4	5	4.38	87.6	0.2	30	65-128	
n-Hexane	5	4.47	89.4	5	4.53	90.6	1.3	30	63-120	
Tetrahydrofuran	5	4.29	85.8	5	4.41	88.2	2.8	30	64-123	
Cyclohexane	5	4.47	89.4	5	4.52	90.4	1.1	30	70-117	
n-Heptane	5	4.38	87.6	5	4.45	89	1.6	30	69-123	
MIBK	5	3.72	74.4	5	4.12	82.4	10.2	30	67-130	
Methyl Butyl Ketone	5	3.99	79.8	5	4.37	87.4	9.1	30	60-140	
Bromoform	5	4.87	97.4	5	4.88	97.6	0.2	30	66-139	
4-Ethyltoluene	5	5.12	102	5	4.81	96.2	6.2	30	67-129	
Benzyl chloride	5	4.51	90.2	5	4.50	90	0.2	30	50-147	
Bromodichloromethane	5	4.75	95	5	4.82	96.4	1.5	30	72-128	
Dibromochloromethane	5	4.92	98.4	5	5.01	100	1.8	30	70-130	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24111780

Date : 11/22/2024

Analysis : Volatile Organic Compounds in Air by GCMS	Method : EPA TO-15	Reporting Units : nL
QC Batch ID : Qb241121106	Created Date : 11/21/24	Created By : AVBembde
Samples in This QC Batch : 24111780.01		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Vinyl Acetate	5	4.02	80.4	5	4.19	83.8	4.1	30	56-139	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 24111780

Date: 11/22/2024

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RLU	Relative Light Unit
J	Estimation. Below calibration range but above MDL	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
LOD	Limit of detection adjusted for %M + DF	SQL	Below calibration range but above MDL
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit
MQL	Unadjusted Minimum Quantitation Limit		

Qualifier Definition



Sample Condition Checklist

A&B JobID : 24111780		Date Received : 11/15/2024		Time Received : 10:29AM			
Client Name : Permian Basin Environmental Lab, LP							
Temperature : 22.2°C		Sample pH : N/A					
Thermometer ID : 230292880		pH Paper ID : N/A					
Perservative :		Lot# :					
	Check Points				Yes	No	N/A
1.	Cooler Seal present and signed.					X	
2.	Sample(s) in a cooler.				X		
3.	If yes, ice in cooler.					X	
4.	Sample(s) received with chain-of-custody.				X		
5.	C-O-C signed and dated.				X		
6.	Sample(s) received with signed sample custody seal.					X	
7.	Sample containers arrived intact. (If No comment)				X		
8.	Matrix: Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input checked="" type="checkbox"/>						
9.	Samples were received in appropriate container(s)				X		
10.	Sample(s) were received with Proper preservative						X
11.	All samples were tagged or labeled.				X		
12.	Sample ID labels match C-O-C ID's.				X		
13.	Bottle count on C-O-C matches bottles found.				X		
14.	Sample volume is sufficient for analyses requested.				X		
15.	Samples were received with in the hold time.				X		
16.	VOA vials completely filled.						X
17.	Sample accepted.				X		
18.	Has client been contacted about sub-out						X

Comments : Include actions taken to resolve discrepancies/problem:

Other: Air. Received 2 clear tedlar bags. ~MC 11/15/2024

Brought by : FedEx

Received by : MClotfelter

Check in by/date : MClotfelter / 11/15/2024

ab-s005-1123

Phone : 713-453-6060

www.ablabs.com



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Company Name PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Sampler Signature: N/A

Job ID: 24111780



11/15/2024 Permian Basin Environmental AMS

Project Name: SUBCONTRACT

Project #:

Project Loc:

PO #:

Fax No:

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

e-mail: brentbarron@pbelab.com

ORDER #:												Analyze For:						
LAB # (lab use only)	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers								Matrix	24 HOUR RUSH	STANDARD	
							ICE	HNO ₃ 250 mL	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	NaOH/Zn	NONE 500ML POLY 250 ML POLY 500 ML	NONE AMBER GLASS				NONE
0143			11/14/2024	12:30		2									X	AIR	X	

Please add tressa@pbelab.com to the WOA. Thank you.

BRENT BARRON	11/14/2024	5:00 PM	Received by: <i>FedEx</i>	Date	Time
Relinquished by: <i>FedEx</i>	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: <i>Neil</i>	Date	Time

Laboratory Comments:	
Sample Containers Intact?	Y N
VOCs Free of Headspace?	Y N
Labels on container(s)	Y N
Custody seals on container(s)	Y N
Custody seals on cooler(s)	Y N
Sample Hand Delivered	Y N
by Sampler/Client Rep.?	Y N
by Courier?	UPS DHL FedEx Lone Star
Temperature Upon Receipt:	
Received: 22.2 °C	
Adjusted: 22.2 °C	

ORIGIN ID:MAFA (432)686-7235
TRESSA BLEDSOE
PERMAN BASIN ENVIRONMENTAL LAB, LP
1400 RANKIN HWY

MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 14NOV24
ACTWGT: 2.00 LB
CAD: 107136846/NET4535
DIMS: 13x9x9 IN

BILL SENDER

TO: **SAMPLE RECEIVING**
A & B ENVIRONMENTAL SERVICES
10100 EAST FREEWAY SUITE 100

HOUSTON TX 77029

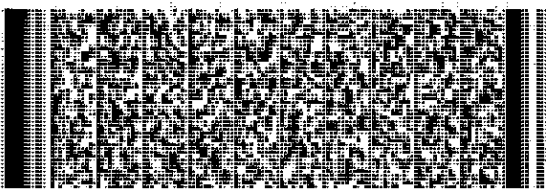
(713) 453-6060

REF:

INV:

PO:

DEPT:



FedEx
Express



TRK#

0201

7799 6659 1216

FRI - 15 NOV 5:00P
STANDARD OVERNIGHT

AB HBYA

77029

TX-US IAH



After printing this label:

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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Kimble Thrash
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Location: Lea County, NM
Lab Order Number: 4L11009



Current Certification

Report Date: 12/25/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF-1 (121024)	4L11009-01	Air	12/10/24 13:30	12-11-2024 09:35

TO-15 analysis was subcontracted to A&B Houston. Their current certification can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/a&b_env.pdf

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

EFF-1 (121024)**4L11009-01 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**EPA TO-15**

1,1,1-Trichloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,1,2,2-Tetrachloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,1,2-Trichloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,1-Dichloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,1-Dichloroethene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,2,4-Trichlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,2-Dibromoethane (EDB)	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,2-Dichlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,2-Dichloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,2-Dichloropropane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,2-Dichlorotetrafluoroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,3-Butadiene	ND	0.0110	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,3-Dichlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
1,4-Dichlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
2-Butanone	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
4-Ethyltoluene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Acetone	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Benzene	ND	0.0100	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Benzyl Chloride	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Bromodichloromethane	0.149	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Bromoform	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Bromomethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Carbon disulfide	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Carbon tetrachloride	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Chlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Chloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Chloroform	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Chloromethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
cis-1,2-Dichloroethene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
cis-1,3-Dichloropropene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Cyclohexane	0.728	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Dibromochloromethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Dichlorodifluoromethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Ethanol	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Ethyl Acetate	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Ethylbenzene	0.338	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Isopropyl alcohol	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: SRS 2009-039
 Project Number: SRS 2009-039
 Project Manager: Kimble Thrash

EFF-1 (121024)**4L11009-01 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**EPA TO-15**

Xylene (p/m)	0.630	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Methyl Butyl Ketone	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Methylene chloride	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
MIBK	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Methyl tert-butyl ether	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
n-Heptane	4.37	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
n-Hexane	0.358	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Xylene (o)	0.164	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Propylene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Styrene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Tetrachloroethene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Tetrahydrofuran	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Toluene	2.86	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
trans-1,2-Dichloroethylene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
trans-1,3-Dichloropropene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Trichloroethylene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Trichlorofluoromethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Vinyl acetate	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8
Vinyl chloride	ND	0.0105	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-8

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]	Project: SRS 2009-039
13000 West County Road 100	Project Number: SRS 2009-039
Odessa TX, 79765	Project Manager: Kimble Thrash

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

Notes and Definitions

SUB-8 Subcontract of analyte/analysis to A&B Labs Houston.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

12/25/2024

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

Please add tressa@pbelab.com to woa's.

						Sample Containers Intact?	Y	N
						VOCs Free of Headspace?	Y	N
Relinquished by: Brent Barron	12/11/2024	17:00	Received by:	Date	Time	Labels on container(s)	Y	N
						Custody seals on container(s)	Y	N
						Custody seals on cooler(s)	Y	N
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
						by Courier?	UPS	DHL
							FedEx	Lone Star
Relinquished by:	Date	Time	Received by:	Date	Time	Temperature Upon Receipt:		
						Received:	°C	
						Adjusted:	°C Factor	

Laboratory Analysis Report

Total Number of Pages: 13

Job ID : 24121545




10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Subcontract

Report To : Client Name: Permian Basin Environmental Lab, LP P.O.#.:
Attn: Brent Barron Sample Collected By:
Client Address: 1400 Rankin Hwy Date Collected: 12/10/24
City, State, Zip: Midland, Texas, 79701

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
4L11009-01	Air	24121545.01


Released By: Gobinath Rangasamy
Title: Project Manager
Date: 12/19/2024

Analyst: Amit Bembde



This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste


I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 12/12/2024 11:00

24.1.21224



Job ID : 24121545

Date: 12/19/2024

Client Name : Permian Basin Environmental Lab, LP

Attn : Brent Barron

Project Name: Subcontract

Client Sample ID: 4L11009-01

Lab Sample ID: 24121545.01

Date Collected: 12/10/24


Sample Matrix: Air

Time Collected: 13:30

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	20CC	< 136.4	< 0.0250		12/12/24
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	20CC	< 171.6	< 0.0250		12/12/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	20CC	< 191.6	< 0.0250		12/12/24
	1,1,2-Trichloroethane	133.41	BRL	0.5	20CC	< 136.4	< 0.0250		12/12/24
	1,1-Dichloroethane	98.96	BRL	0.5	20CC	< 101.2	< 0.0250		12/12/24
	1,1-Dichloroethylene	96.94	BRL	0.5	20CC	< 99.1	< 0.0250		12/12/24
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	20CC	< 185.5	< 0.0250		12/12/24
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	20CC	< 122.9	< 0.0250		12/12/24
	1,2-Dibromoethane	187.87	BRL	0.5	20CC	< 192.1	< 0.0250		12/12/24
	1,2-Dichlorobenzene	147.00	BRL	0.5	20CC	< 150.3	< 0.0250		12/12/24
	1,2-Dichloroethane	98.96	BRL	0.2	20CC	< 40.5	< 0.0100		12/12/24
	1,2-Dichloropropane	112.99	BRL	0.5	20CC	< 115.5	< 0.0250		12/12/24
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	20CC	< 173.8	< 0.0250		12/12/24
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	20CC	< 122.9	< 0.0250		12/12/24
	1,3-Butadiene	54.09	BRL	0.22	20CC	< 24.3	< 0.0110		12/12/24
	1,3-Dichlorobenzene	147.00	BRL	0.5	20CC	< 150.3	< 0.0250		12/12/24
	1,4-Dichlorobenzene	147.00	BRL	0.5	20CC	< 150.3	< 0.0250		12/12/24
	2-Butanone	72.11	BRL	0.5	20CC	< 73.7	< 0.0250		12/12/24
	4-Ethyltoluene	120	BRL	0.5	20CC	< 122.7	< 0.0250		12/12/24
	Acetone ²	58.08	BRL	0.5	20CC	< 59.4	< 0.0250		12/12/24
	Benzene	78.11	BRL	0.2	20CC	< 31.9	< 0.0100		12/12/24
	Benzyl chloride	126.59	BRL	0.5	20CC	< 129.4	< 0.0250		12/12/24
	Bromodichloromethane ¹	163.83	2.98	0.5	20CC	998.4	0.1490		12/12/24
	Bromoform	252.75	BRL	0.5	20CC	< 258.4	< 0.0250		12/12/24
	Bromomethane	94.94	BRL	0.5	20CC	< 97.1	< 0.0250		12/12/24
	Carbon disulfide ²	76.14	BRL	0.5	20CC	< 77.9	< 0.0250		12/12/24
	Carbon tetrachloride	153.82	BRL	0.5	20CC	< 157.3	< 0.0250		12/12/24
	Chlorobenzene	112.56	BRL	0.5	20CC	< 115.1	< 0.0250		12/12/24
	Chloroethane	65.42	BRL	0.5	20CC	< 66.9	< 0.0250		12/12/24
	Chloroform	119.38	BRL	0.5	20CC	< 122.1	< 0.0250		12/12/24
	Chloromethane	50.49	BRL	0.5	20CC	< 51.6	< 0.0250		12/12/24
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	20CC	< 99.1	< 0.0250		12/12/24
	cis-1,3-Dichloropropene	110.97	BRL	0.5	20CC	< 113.5	< 0.0250		12/12/24
	Cyclohexane	84.16	14.56	0.5	20CC	2505.9	0.7280 E		12/12/24
	Dibromochloromethane ²	208.29	BRL	0.5	20CC	< 213.0	< 0.0250		12/12/24
	Dichlorodifluoromethane	120	BRL	0.5	20CC	< 122.7	< 0.0250		12/12/24
	Ethanol ²	46.07	BRL	0.5	20CC	< 47.1	< 0.0250		12/12/24
	Ethyl acetate ²	88.11	BRL	0.5	20CC	< 90.1	< 0.0250		12/12/24
	Ethylbenzene	106.17	6.77	0.5	20CC	1469.9	0.3385		12/12/24
	Hexachlorobutadiene	258	BRL	0.5	20CC	< 263.8	< 0.0250		12/12/24

ab-q212-0321

LABORATORY TEST RESULTS									
		Job ID : 24121545				Date: 12/19/2024			
Client Name :		Permian Basin Environmental Lab, LP					Attn : Brent Barron		
Project Name:		Subcontract							
Client Sample ID:		4L11009-01			Lab Sample ID:		24121545.01		
Date Collected:		12/10/24			Sample Matrix:		Air		
Time Collected:		13:30							
Other Information:									
Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	Isopropyl Alcohol ²	60.1	BRL	0.5	20CC	< 61.5	< 0.0250		12/12/24
	m- & p-Xylenes	106.17	12.6	1	20CC	2735.7	0.6300 E		12/12/24
	Methyl Butyl Ketone ²	100	BRL	0.5	20CC	< 102.2	< 0.0250		12/12/24
	Methylene chloride	84.93	BRL	0.5	20CC	< 86.8	< 0.0250		12/12/24
	MIBK	100.16	BRL	0.5	20CC	< 102.4	< 0.0250		12/12/24
	MTBE	88.15	BRL	0.5	20CC	< 90.1	< 0.0250		12/12/24
	n-Heptane	100.21	87.42	0.5	20CC	17914.8	4.3710 E		12/12/24
	n-Hexane	86.18	7.16	0.5	20CC	1261.9	0.3580		12/12/24
	o-Xylene	106.17	3.28	0.5	20CC	712.1	0.1640		12/12/24
	Propylene	42.08	BRL	0.5	20CC	< 43.0	< 0.0250		12/12/24
	Styrene	104	BRL	0.5	20CC	< 106.3	< 0.0250		12/12/24
	Tetrachloroethylene	165.83	BRL	0.5	20CC	< 169.6	< 0.0250		12/12/24
	Tetrahydrofuran ²	72.11	BRL	0.5	20CC	< 73.7	< 0.0250		12/12/24
	Toluene	92.14	57.1	0.5	20CC	10759.1	2.8550 E		12/12/24
	trans-1,2-Dichloroethylene	96.94	BRL	0.5	20CC	< 99.1	< 0.0250		12/12/24
	trans-1,3-Dichloropropene	110.97	BRL	0.5	20CC	< 113.5	< 0.0250		12/12/24
	Trichloroethylene	131.39	BRL	0.5	20CC	< 134.3	< 0.0250		12/12/24
	Trichlorofluoromethane	137.37	BRL	0.5	20CC	< 140.5	< 0.0250		12/12/24
	Vinyl Acetate	86.09	BRL	0.5	20CC	< 88.0	< 0.0250		12/12/24
	Vinyl Chloride	62.5	BRL	0.21	20CC	< 26.8	< 0.0105		12/12/24
Total [VOC] calculated			191.87			38357.7	39	9.594	

EPA TO-- 15 Sample Analysis -- GC/MS



Lab ID	24121545.01
Date Acquired	12 Dec 2024 12:17 pm
Analyst	AVBEMBDE
Sample Run ID	X121125.D
tedlar bag (cc)	1000
Injection Volume (cc)	20

Compound Name	CAS #	R.T.	M.W	Nanoliters	Vol.(L)	ug/l	ppm
Cyclopentane, methyl-	96-37-7	8.923	84	7.6	0.02	1.306	0.380
Hexane, 2-methyl-	591-76-4	10.4	100	25.9	0.02	5.297	1.295
Pentane, 2,3-dimethyl-	565-59-3	10.524	100	10.6	0.02	2.168	0.530
Hexane, 3-methyl-	589-34-4	10.76	100	38.5	0.02	7.873	1.925
Cyclopentane, 1,3-dimethyl-	2453-00-1	11.18	98	17.6	0.02	3.527	0.880
Isopropylcyclobutane	872-56-0	11.28	98	31.4	0.02	6.293	1.570
Cyclohexane, methyl-	108-87-2	12.6	98	157.8	0.02	31.625	7.890
Cyclohexane, 1,1-dimethyl-	590-66-9	12.726	112	20.88	0.02	4.782	1.044
Cyclopentane, 1,2,4-trimethyl-	2815-58-9	13.337	112	41.7	0.02	9.551	2.085
Heptane, 2-methyl-	592-27-8	14.33	114	12.8	0.02	2.984	0.640
Heptane, 3-methyl-	589-81-1	14.627	114	7.6	0.02	1.772	0.380
Cyclohexane, 1,3-dimethyl-, cis	638-04-0	14.83	112	10.63	0.02	2.435	0.532
Octane	111-65-9	15.568	128	11.7	0.02	3.063	0.585



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: Method Blank

Analysis Date: 12/11/2024

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	µg/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.

QUALITY CONTROL CERTIFICATE



Job ID : 24121545

Date : 12/19/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24121929

Created Date : 12/19/24

Created By : AVBembde

Samples in This QC Batch : 24121545.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
trans-1,2-Dichloroethylene	156-60-5	BRL	nL	1	0.5		
Dichlorodifluoromethane	75-71-8	BRL	nL	1	0.5		
Chloromethane	74-87-3	BRL	nL	1	0.5		
1,2-Dichlorotetrafluoroethane	76-14-2	BRL	nL	1	0.5		
Vinyl Chloride	75-01-4	BRL	nL	1	0.21		
Bromomethane	74-83-9	BRL	nL	1	0.5		
Chloroethane	75-00-3	BRL	nL	1	0.5		
Trichlorofluoromethane	75-69-4	BRL	nL	1	0.5		
1,1-Dichloroethylene	75-35-4	BRL	nL	1	0.5		
Methylene chloride	75-09-2	BRL	nL	1	0.5		
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	nL	1	0.5		
1,1-Dichloroethane	75-34-3	BRL	nL	1	0.5		
cis-1,2-Dichloroethylene	156-59-2	BRL	nL	1	0.5		
Chloroform	67-66-3	BRL	nL	1	0.5		
1,2-Dichloroethane	107-06-2	BRL	nL	1	0.2		
1,1,1-Trichloroethane	71-55-6	BRL	nL	1	0.5		
Benzene	71-43-2	BRL	nL	1	0.2		
Carbon tetrachloride	56-23-5	BRL	nL	1	0.5		
1,2-Dichloropropane	78-87-5	BRL	nL	1	0.5		
Trichloroethylene	79-01-6	BRL	nL	1	0.5		
cis-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5		
trans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5		
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5		
Toluene	108-88-3	BRL	nL	1	0.5		
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5		
Tetrachloroethylene	127-18-4	BRL	nL	1	0.5		
Chlorobenzene	108-90-7	BRL	nL	1	0.5		
Ethylbenzene	100-41-4	BRL	nL	1	0.5		
m- & p-Xylenes	179601-23-1	BRL	nL	1	1		
Styrene	100-42-5	BRL	nL	1	0.5		
o-Xylene	95-47-6	BRL	nL	1	0.5		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	nL	1	0.5		
1,3,5-Trimethylbenzene	108-67-8	BRL	nL	1	0.5		
1,2,4-Trimethylbenzene	95-63-6	BRL	nL	1	0.5		
1,3-Dichlorobenzene	541-73-1	BRL	nL	1	0.5		
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5		
1,2-Dichlorobenzene	95-50-1	BRL	nL	1	0.5		
1,2,4-Trichlorobenzene	120-82-1	BRL	nL	1	0.5		
Hexachlorobutadiene	87-68-3	BRL	nL	1	0.5		
1,3-Butadiene	106-99-0	BRL	nL	1	0.22		
2-Butanone	78-93-3	BRL	nL	1	0.5		
4-Ethyltoluene	622-96-8	BRL	nL	1	0.5		

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24121545

Date : 12/19/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24121929

Created Date : 12/19/24

Created By : AVBembde

Samples in This QC Batch : 24121545.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Acetone	67-64-1	BRL	nL	1	0.5	
Benzyl chloride	100-44-7	BRL	nL	1	0.5	
Bromodichloromethane	75-27-4	BRL	nL	1	0.5	
Bromoform	75-25-2	BRL	nL	1	0.5	
Carbon disulfide	75-15-0	BRL	nL	1	0.5	
Cyclohexane	110-82-7	BRL	nL	1	0.5	
Dibromochloromethane	124-48-1	BRL	nL	1	0.5	
Ethanol	64-17-5	BRL	nL	1	0.5	
Ethyl acetate	141-78-6	BRL	nL	1	0.5	
n-Heptane	142-82-5	BRL	nL	1	0.5	
n-Hexane	110-54-3	BRL	nL	1	0.5	
Isopropyl Alcohol	67-63-0	BRL	nL	1	0.5	
Methyl Butyl Ketone	591-78-6	BRL	nL	1	0.5	
MIBK	108-10-1	BRL	nL	1	0.5	
MTBE	1634-04-4	BRL	nL	1	0.5	
Propylene	115-07-1	BRL	nL	1	0.5	
Tetrahydrofuran	109-99-9	BRL	nL	1	0.5	
Vinyl Acetate	108-05-4	BRL	nL	1	0.5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
trans-1,2-Dichloroethylene	5	5.01	100	5	4.89	97.8	2.4	30	67-124	
Dichlorodifluoromethane	5	5.53	111	5	6.05	121	9	30	59-128	
Chloromethane	5	5.52	110	5	5.36	107	2.9	30	59-132	
1,2-Dichlorotetrafluoroetha	5	5.80	116	5	5.67	113	2.3	30	63-121	
Vinyl Chloride	5	5.16	103	5	5.03	101	2.6	30	64-127	
Bromomethane	5	5.20	104	5	5.08	102	2.3	30	63-134	
Chloroethane	5	4.86	97.2	5	4.76	95.2	2.1	30	63-127	
Trichlorofluoromethane	5	6.22	124	5	6.04	121	2.9	30	62-126	
1,1-Dichloroethylene	5	4.85	97	5	4.72	94.4	2.7	30	61-133	
Methylene chloride	5	4.75	95	5	4.64	92.8	2.3	30	62-115	
1,1,2-Trichloro-1,2,2-trifluo	5	5.55	111	5	5.34	107	3.9	30	66-126	
1,1-Dichloroethane	5	4.99	99.8	5	4.90	98	1.8	30	68-126	
cis-1,2-Dichloroethylene	5	4.69	93.8	5	4.63	92.6	1.3	30	70-121	
Chloroform	5	5.36	107	5	5.22	104	2.6	30	68-134	
1,2-Dichloroethane	5	5.97	119	5	5.82	116	2.5	30	65-128	
1,1,1-Trichloroethane	5	6.19	124	5	6.01	120	3	30	68-125	
Benzene	5	4.87	97.4	5	4.71	94.2	3.3	30	69-119	
Carbon tetrachloride	5	6.51	130	5	6.33	127	2.8	30	68-132	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24121545

Date : 12/19/2024

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb24121929

Created Date : 12/19/24

Created By : AVBembde

Samples in This QC Batch : 24121545.01

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2-Dichloropropane	5	5.01	100	5	4.87	97.4	2.8	30	69-123	
Trichloroethylene	5	5.42	108	5	5.27	105	2.8	30	71-123	
cis-1,3-Dichloropropene	5	5.21	104	5	5.08	102	2.5	30	70-128	
trans-1,3-Dichloropropene	5	5.21	104	5	5.08	102	2.5	30	75-133	
1,1,2-Trichloroethane	5	5.13	103	5	5.00	100	2.6	30	73-119	
Toluene	5	4.98	99.6	5	4.87	97.4	2.2	30	66-119	
1,2-Dibromoethane	5	5.28	106	5	5.17	103	2.1	30	74-122	
Tetrachloroethylene	5	5.76	115	5	5.56	111	3.5	30	66-124	
Chlorobenzene	5	5.40	108	5	5.16	103	4.5	30	70-119	
Ethylbenzene	5	5.45	109	5	5.27	105	3.4	30	70-124	
m- & p-Xylenes	10	10.7	107	10	10.3	103	3.9	30	61-134	
Styrene	5	5.21	104	5	5.10	102	2.1	30	73-127	
o-Xylene	5	5.42	108	5	5.26	105	3	30	67-125	
1,1,2,2-Tetrachloroethane	5	5.19	104	5	5.24	105	1	30	65-127	
1,3,5-Trimethylbenzene	5	5.52	110	5	5.55	111	0.5	30	67-130	
1,2,4-Trimethylbenzene	5	5.40	108	5	5.52	110	2.2	30	66-132	
1,3-Dichlorobenzene	5	5.30	106	5	5.43	109	2.4	30	65-130	
1,4-Dichlorobenzene	5	5.13	103	5	5.26	105	2.5	30	60-131	
1,2-Dichlorobenzene	5	5.19	104	5	5.41	108	4.2	30	63-129	
1,2,4-Trichlorobenzene	5	5.20	104	5	6.11	122	16.1	30	41-142	
Hexachlorobutadiene	5	5.52	110	5	6.26	125	12.6	30	56-138	
Propylene	5	5.72	114	5	5.58	112	2.5	30	57-136	
1,3-Butadiene	5	5.15	103	5	5.00	100	3	30	66-134	
Ethanol	5	4.45	89	5	4.80	96	7.6	30	59-125	
Acetone	5	4.84	96.8	5	4.66	93.2	3.8	30	58-128	
Isopropyl Alcohol	5	3.66	73.2	5	4.24	84.8	14.7	30	52-134	
Carbon disulfide	5	4.64	92.8	5	4.55	91	2	30	57-134	
MTBE	5	5.11	102	5	5.12	102	0.2	30	66-126	
2-Butanone	5	4.88	97.6	5	4.92	98.4	0.8	30	67-130	
Ethyl acetate	5	4.56	91.2	5	4.49	89.8	1.5	30	65-128	
n-Hexane	5	4.65	93	5	4.55	91	2.2	30	63-120	
Tetrahydrofuran	5	4.82	96.4	5	4.85	97	0.6	30	64-123	
Cyclohexane	5	5.01	100	5	4.86	97.2	3	30	70-117	
n-Heptane	5	5.30	106	5	5.05	101	4.8	30	69-123	
MIBK	5	3.98	79.6	5	4.19	83.8	5.1	30	67-130	
Methyl Butyl Ketone	5	4.32	86.4	5	4.65	93	7.4	30	60-140	
Bromoform	5	6.22	124	5	6.05	121	2.8	30	66-139	
4-Ethyltoluene	5	5.37	107	5	5.41	108	0.7	30	67-129	
Benzyl chloride	5	4.89	97.8	5	5.27	105	7.5	30	50-147	
Bromodichloromethane	5	5.85	117	5	5.67	113	3.1	30	72-128	
Dibromochloromethane	5	6.06	121	5	5.85	117	3.5	30	70-130	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24121545

Date : 12/19/2024

Analysis : Volatile Organic Compounds in Air by GCMS	Method : EPA TO-15	Reporting Units : nL
QC Batch ID : Qb24121929	Created Date : 12/19/24	Created By : AVBembde
Samples in This QC Batch : 24121545.01		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Vinyl Acetate	5	5.06	101	5	5.00	100	1.2	30	56-139	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 24121545

Date: 12/19/2024

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RLU	Relative Light Unit
J	Estimation. Below calibration range but above MDL	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
LOD	Limit of detection adjusted for %M + DF	SQL	Below calibration range but above MDL
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit
MQL	Unadjusted Minimum Quantitation Limit		

Qualifier Definition

E	Estimation. Above calibration range.
---	--------------------------------------



Sample Condition Checklist

A&B JobID : 24121545		Date Received : 12/12/2024		Time Received : 11:00AM	
Client Name : Permian Basin Environmental Lab, LP					
Temperature : 21.0°C		Sample pH : NA			
Thermometer ID : IR7		pH Paper ID : NA			
Perservative :		Lot# :			
	Check Points	Yes	No	N/A	
1.	Cooler Seal present and signed.		X		
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.		X		
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If No comment)	X			
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other				
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>				
9.	Samples were received in appropriate container(s)	X			
10.	Sample(s) were received with Proper preservative			X	
11.	All samples were tagged or labeled.	X			
12.	Sample ID labels match C-O-C ID's.	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received with in the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	

Comments : Include actions taken to resolve discrepancies/problem:

Other=Air (Clear Tedlar Bags). AM 12/12/24

Brought by : FedEx

Received by : MClotfelter

Check in by/date : Amber / 12/12/2024

ab-s005-1123

Phone : 713-453-6060

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #		LAB # (lab use only)										Analyze For:															
FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers					Matrix														
								ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na ₂ S ₂ O ₃	NONE	125 ml. amber boston rounds	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TO-15										
LAB																		24 Hour Rush	STANDARD								
01AB		4L11009-01			12/10/2024	13:30	2							X		AIR	X		X								
Job ID:24121545																											
12/12/2024 Permian Basin Envrionme AMS																											
Please add tressa@pbelab.com to woa's.																		Laboratory Comments:									
Relinquished by:		12/11/2024	17:00	Received by:		Date	Time	Sample Containers Intact?										Y	N								
Brent Barron				FEDTEX				VOCs Free of Headspace?										Y	N								
Relinquished by:		Date	Time	Received by:		Date	Time	Labels on container(s)										Y	N								
FEDTEX		12/12/24	11:00					Custody seals on container(s)										Y	N								
Relinquished by:		Date	Time	Received by:		Date	Time	Custody seals on cooler(s)										Y	N								
				M-50		12/12/24	11:00	Sample Hand Delivered										Y	N								
								by Sampler/Client Rep.?										Y	N								
								by Courier?										Y	N								
								Temperature Upon Receipt:										Y	N								
								Received: 21.0°C										Y	N								
								Adjusted: 21.0°C										Y	N								

ORIGIN ID:MAFA (432) 686-7235
 TRESSA-BLEDSE
 PERMIAN BASIN ENVIRONMENTAL LAB, LP
 1400 RANKIN HWY
 MIDLAND, TX 79701
 UNITED STATES US

SHIP DATE: 11DEC24
 ACTWGT: 2.00 LB
 CAD: 107136846/INET4535
 DIMS: 13X9X9 IN
 BILL SENDER

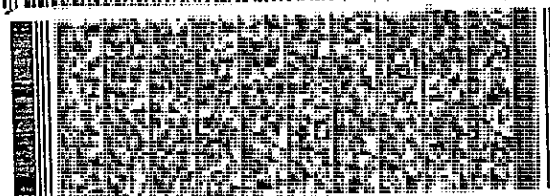
TO **SAMPLE RECEIVING**
A & B ENVIRONMENTAL SERVICES
10100 EAST FREEWAY SUITE 100

HOUSTON TX 77029

(713) 453-6060
 INV:
 PO:

REF:

DEPT:



FedEx
 Express



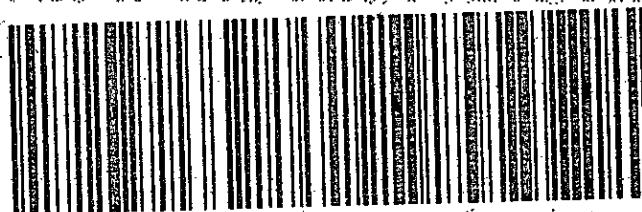
THU - 12 DEC 5:00P
STANDARD OVERNIGHT

TRK#
 0201 7706 8444 9853

77029

AB HBYA

TX-US IAH



58CJ4EB7810604

AN1010007029

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 484647

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 484647
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
jburdine	Review of the DCP Plant to Lea Station 6-Inch Section 31: approved 1. Continue to conduct groundwater monitoring on a semi-annual schedule for MW-3 and MW-6. Conduct quarterly monitoring events for MW-2, MW-4 and MW-5. 2. For MW-1, conduct AFR events on a monthly schedule as prescribed. 3. Continue to run and conduct O&M of the SVE system with emission sampling. 4. Submit the 2025 annual report to OCD by April 1, 2026.	7/29/2025