### 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.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Kimble Thrash

ъen J. Arguijo

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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 downgradient 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

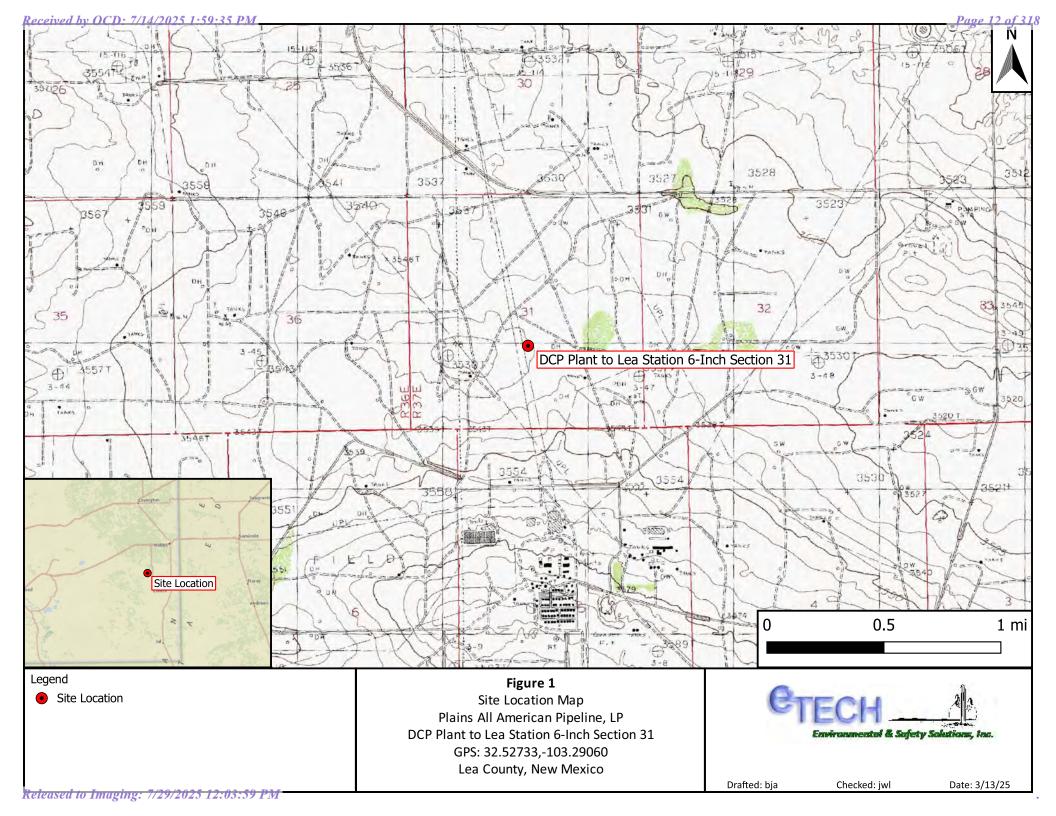
Plains All American Pipeline, LP 1106 Griffith Drive Midland, Texas 79706

Nelson Velez Environmental Specialist - Advanced New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

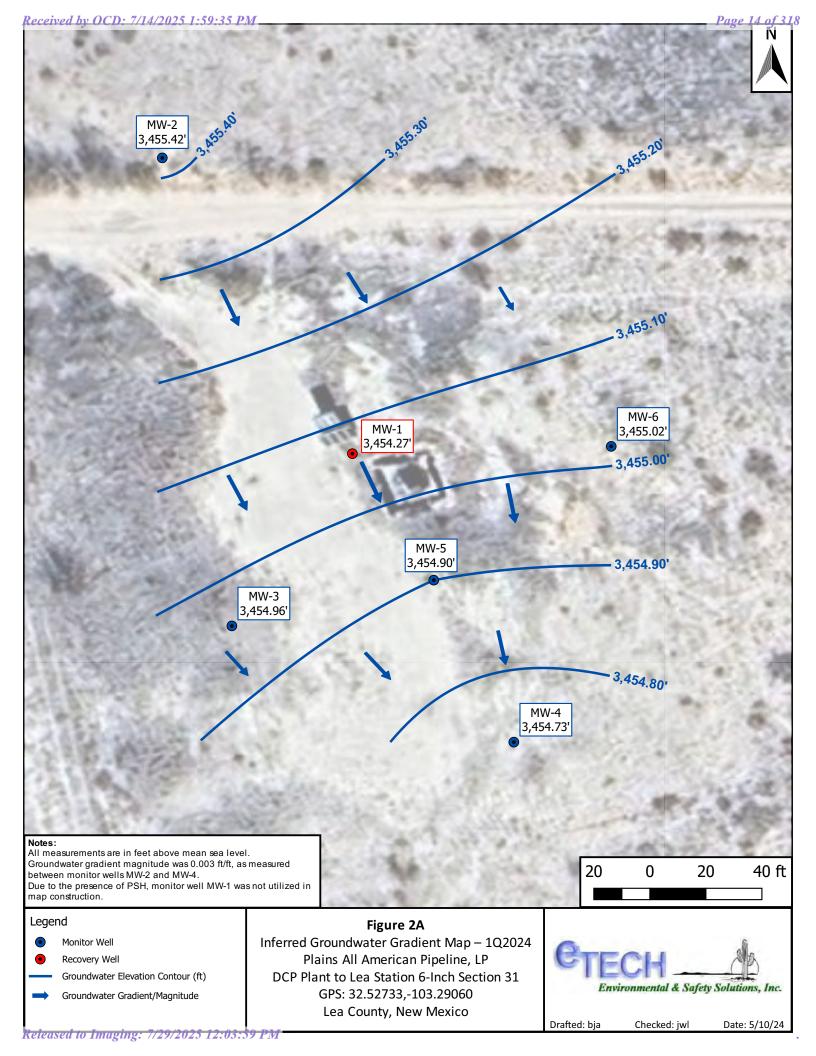
Karolanne Hudgens Plains All American Pipeline, LP 333 Clay Street, Suite 1600 Houston, Texas 77002

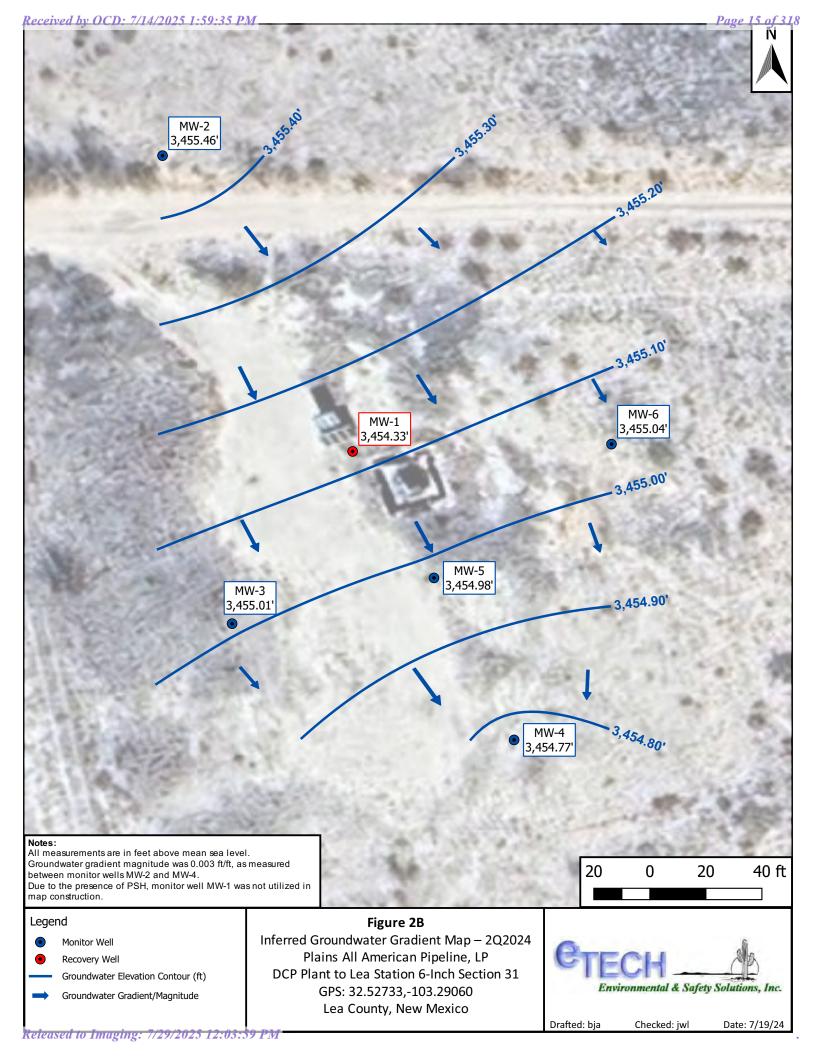
(Electronic Submission)

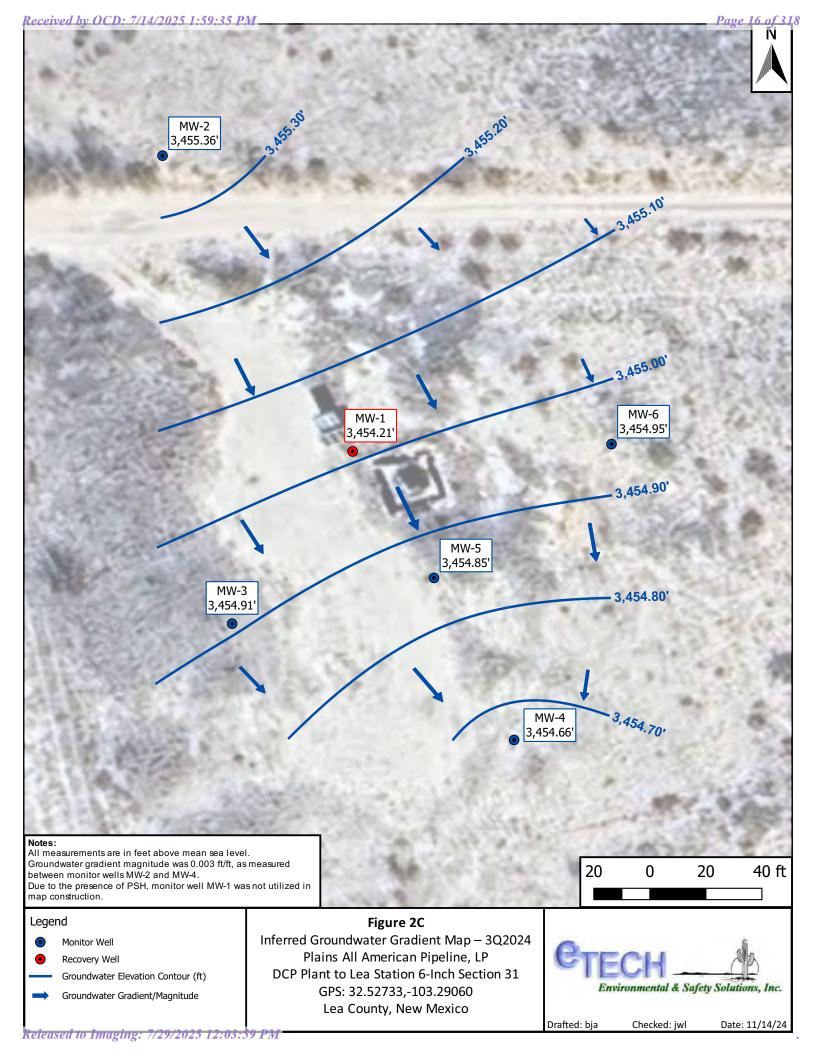
# Figure 1 Site Location Map

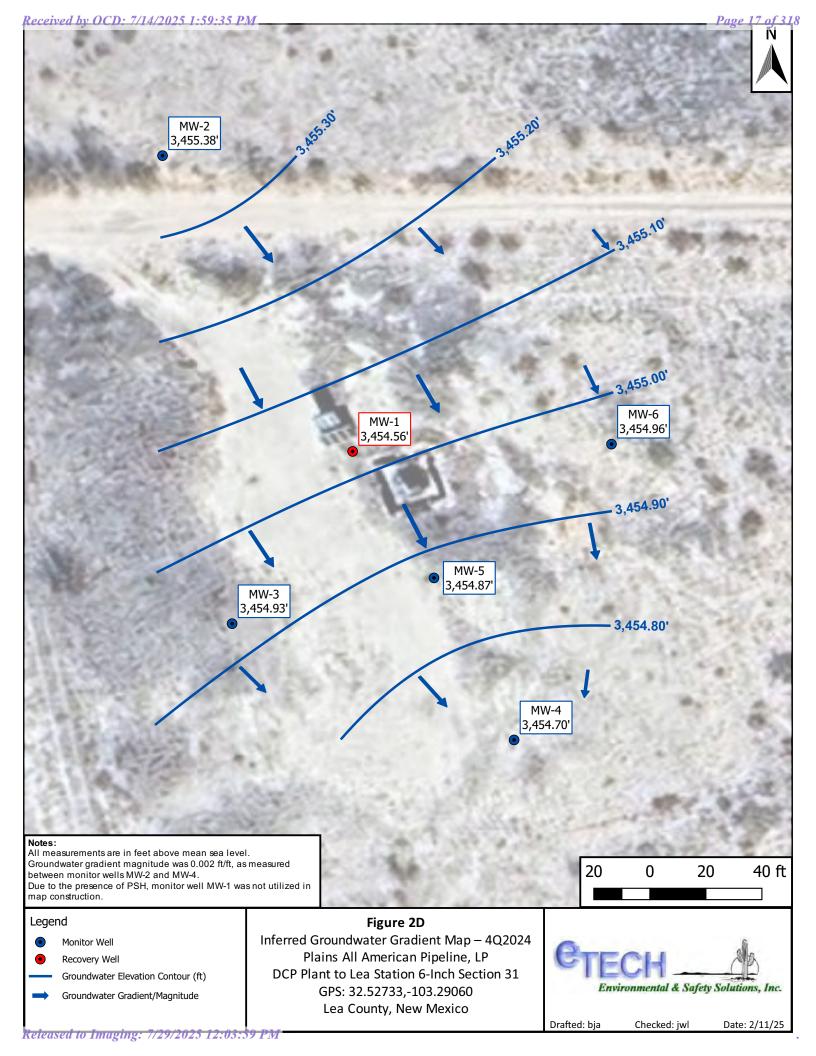


### Figures 2A–2D Inferred Groundwater Gradient Maps

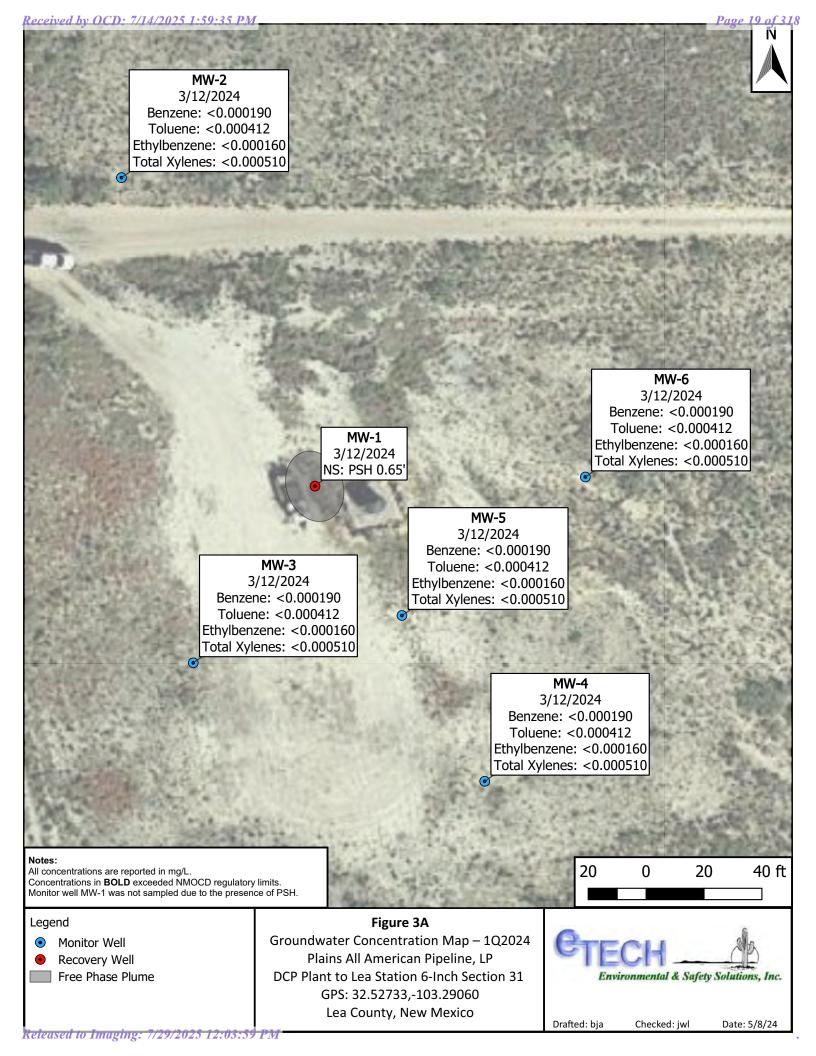


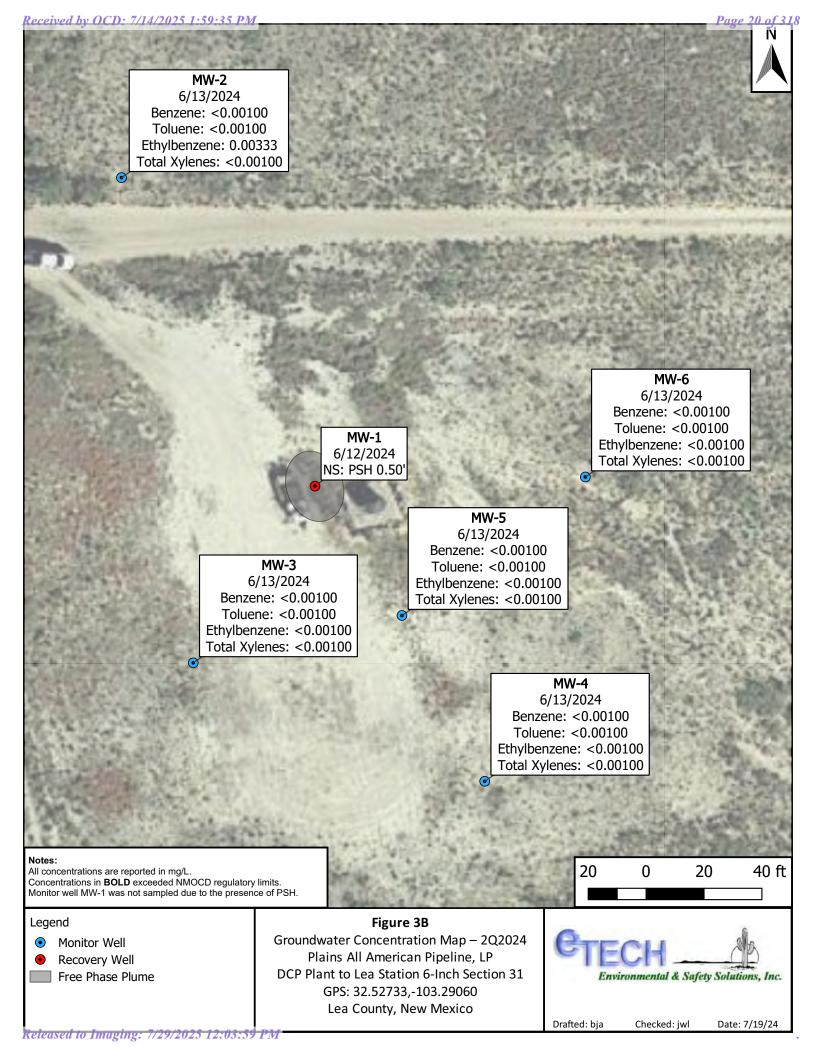


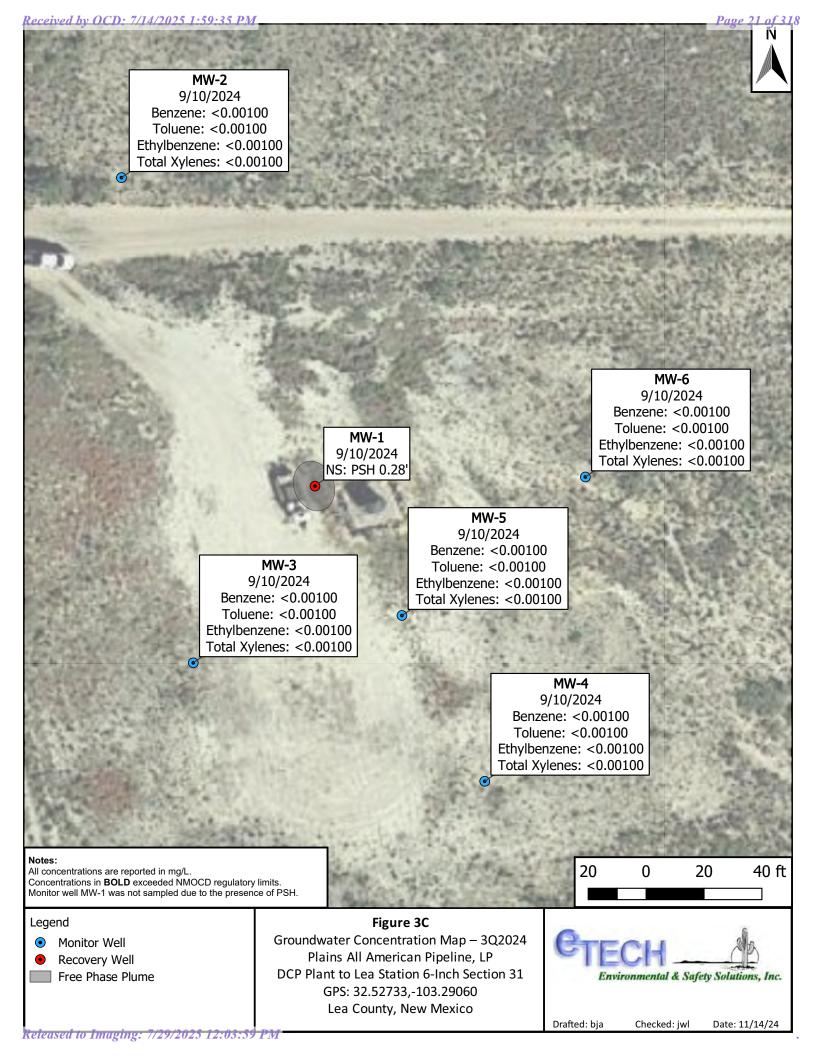


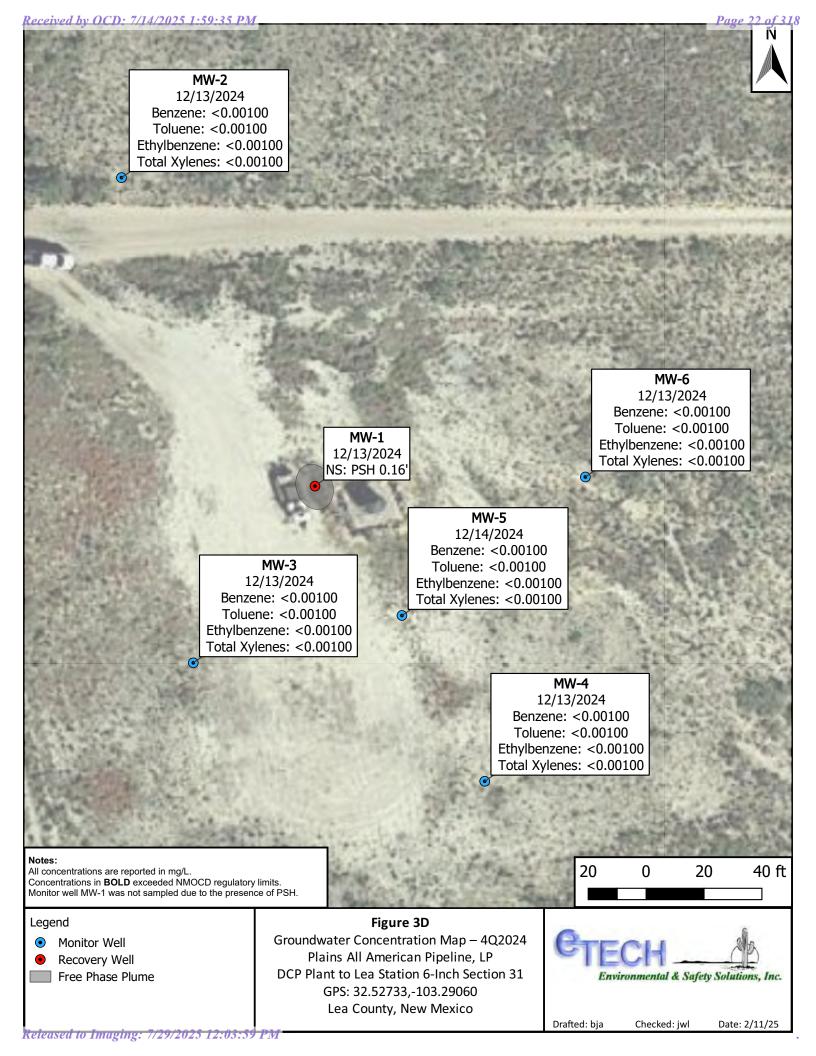


### Figures 3A–3D Groundwater Concentration Maps









### Tables 1–4

### Table 1 Groundwater Elevation & PSH<sup>1</sup> Thickness Summary

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

NMOCD<sup>2</sup> Incident ID #: nAPP2109734163

All elevation measurements are in feet above mean sea level

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	Date	Top of Casing	Depth to PSH	Depth to Water Below	PSH	Corrected
Well ID		_	Below TOC		Thickness	Groundwater
	Gauged	(TOC) <sup>3</sup> Elevation*	(feet)	TOC (foot)	(feet)	Elevation**
	02/20/2022	Elevation	05.00	(feet)	0.00	2.454.44
	03/29/2023		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
MW-1	12/07/2023	3,539.59	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
	T		T			
	03/29/2023		-	83.74	-	3,455.63
	06/21/2023		-	83.76	-	3,455.61
	09/19/2023		-	83.72	-	3,455.65
MW-2	12/07/2023	3,539.37	-	83.88	-	3,455.49
11111 2	03/12/2024	0,000.07	-	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
	03/29/2023		-	84.11	-	3,455.17
	06/21/2023	3,539.28	-	84.15	-	3,455.13
	09/19/2023		-	84.10	-	3,455.18
MW-3	12/07/2023		-	84.24	-	3,455.04
10100-3	03/12/2024	3,539.20	-	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
	03/29/2023		-	85.14	-	3,454.93
	06/21/2023		-	85.19	-	3,454.88
	09/19/2023		-	85.13	-	3,454.94
MW-4	12/07/2023	3,540.07	-	85.25	-	3,454.82
	03/12/2024	,	-	85.34	-	3,454.73
	06/13/2024 09/10/2024		-	85.30 85.41	-	3,454.77 3,454.66
	12/13/2024			85.37	-	3,454.70
	12/10/2027			33.07		5, 157.76
	03/29/2023		-	84.74	-	3,455.16
	06/21/2023		-	84.74	-	3,455.16
	09/19/2023		_	84.75	-	3,455.15
MW-5	12/07/2023	3,539.90	-	84.92	-	3,454.98
IVIVV-3	03/12/2024	3,338.80	-	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
	02/20/2022		l	0E 00		2 455 02
	03/29/2023 06/21/2023		-	85.80 85.62	-	3,455.02 3,455.20
	09/19/2023		<del>-</del>	85.85	_	3,454.97
	12/07/2023		-	85.74	-	3,455.08
MW-6	03/12/2024	3,540.82	_	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 BTEX<sup>1</sup> Concentration Analytical Summary**

DCP Plant to Lea Station 6-Inch Sec. 31 Lea County, New Mexico Plains SRS #: 2009-084 Etech Project #: 17473 NMOCD<sup>2</sup> Incident ID #: nAPP2109734163

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

		EPA SW846-8021B									
Well ID	Date Sampled	Benzene	Toluene	Ethylbenzene	M,P- Xylenes	O- Xylenes	Total Xylenes	Total BTEX			
NMOCD RR	AL CRITERIA <sup>3</sup>	0.01	0.01 0.75 0.75 TOTAL XYLENES 0.62								
	03/30/2023		•					•			
	06/21/2023	_									
	09/19/2023										
MW-1	12/07/2023		Not Sampled due to presence of PSH								
	03/12/2024		Not Sampled due to presence of PSH								
	06/13/2024	4									
	09/10/2024	4									
	12/13/2024										
	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.002			
	06/21/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.010			
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.002			
NAVA / O	12/07/2023	< 0.000190	< 0.000412	< 0.000160	-		< 0.000510	< 0.000			
MW-2	03/12/2024	< 0.000190	< 0.000412	< 0.000160	-	-	<0.000510	< 0.000			
	06/13/2024	<0.00100	<0.00100	0.00333	<0.00200	<0.00100	<0.00100	0.003			
	09/10/2024	<0.00100	<0.00100	< 0.00100	<0.00200	<0.00100	<0.00100	<0.001			
	12/13/2024	< 0.00100	< 0.00100	< 0.00100	< 0.00200	< 0.00100	< 0.00100	<0.001			
	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	< 0.002			
	06/21/2023			Vell Not Sampled (I							
MW-3	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	< 0.002			
	12/07/2023	<0.000190	<0.000412	<0.000160	-	-	<0.000510				
	03/12/2024	<0.000190	<0.000412	<0.000160	-	-	<0.000510				
	06/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.001			
	09/10/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.001			
	12/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.001			
	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.002			
	06/21/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.010			
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	< 0.002			
	12/07/2023	<0.000190	< 0.000412	<0.000160		-	<0.000510	< 0.000			
MW-4	03/12/2024	<0.000190	< 0.000412	< 0.000160	-	-	<0.000510	< 0.000			
	06/13/2024	<0.00100	< 0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.001			
	09/10/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	< 0.001			
	12/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.001			
	00/00/2000	0.00100	0.00100	0.00100	0.00000	0.00100	0.0000	0.05			
	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.002			
	06/21/2023	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.01			
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.002			
MW-5	12/07/2023	<0.000190	<0.000412	<0.000160	<u>-</u>	-	<0.000510	<0.000			
	03/12/2024 06/13/2024	<0.000190 <0.00100	<0.000412 <0.00100	<0.000160 <0.00100	<0.00200	<0.00100	<0.000510 <0.00100	<0.000			
	09/10/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.001			
	12/14/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.001			
	12/14/2024	\0.00100	\0.00100	<0.00100	\U.UUZUU	<u> </u>	<0.00100	\0.001			
	03/30/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.002			
	06/21/2023	10.00100		Well Not Sampled (F			10.00200	\0.00Z			
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.002			
	12/07/2023	<0.000190	<0.000412	<0.00160	-	-	<0.00200				
MW-6	03/12/2024	<0.000190	<0.000412	<0.000160	-	_	<0.000510	<0.000			
	06/13/2024	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.001			
		< 0.00100	< 0.00100	<0.00100	<0.00200	< 0.00100	<0.00100	<0.001			
	09/10/2024	<0.00100	<0.00100	<0.00100		<b>\0.00100</b>	<b>\0.00100</b>				

- 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 SVE<sup>1</sup> Emission Analytical Summary - BTEX<sup>2</sup> & TPH<sup>3</sup>

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 <sup>4</sup> (tons/year)	Emission Volume (gal/day)	
New Mexico Enviro	nment Department (NN	IED) Air Quality Burea (	AQB) Action Level requiring an Air Permit	10		
			Benzene - ND	ND	ND	
			Toluene - ND	ND	ND	
EFF-1 (013024)	01/30/2024	Pace	Ethylbenzene - 0.336	0.000229	0.000172	
L11-1 (013024)	01/30/2024	i ace	Total Xylene - 4.14	0.00282	0.00212	
			Total BTEX - 4.48	0.00305	0.00229	
			TPH - GRO - 1,900	1.29	1.20	
				Benzene - 0.648	0.000441	0.000332
			Toluene - 68.9	0.0469	0.0353	
EFF-1 (021524)	02/15/2024	Pace	Ethylbenzene - 25.3	0.0172	0.0129	
L11-1 (021324)	02/13/2024	Pace	Total Xylene - 126	0.0857	0.0644	
			Total BTEX - 221	0.150	0.113	
			TPH - GRO - 5,990	4.08	3.77	
			Benzene - 0.317	0.000216	0.000162	
			Toluene - 0.934	0.000636	0.000478	
EEE 1 (022524)	03/25/2024	PBEL	Ethylbenzene - ND	ND	ND	
EFF-1 (032524)	03/23/2024	FDEL	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)

### $\label{eq:table 3} \textbf{SVE}^{1}\ \textbf{Emission Analytical Summary - BTEX}^{2}\ \&\ \textbf{TPH}^{3}$

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 <sup>4</sup> (tons/year)	Emission Volume (gal/day)	
New Mexico Enviro	nment Department (NN	IED) Air Quality Burea (	(AQB) Action Level requiring an Air Permit	10		
			Benzene - 0.399	0.000272	0.000204	
			Toluene - 0.234	0.000159	0.000120	
EFF-1 (041624)	04/16/2024	PBEL	Ethylbenzene - 0.132	0.0000902	0.0000678	
EFF-1 (041024)	04/10/2024	FDEL	Total Xylene - 1.25	0.000854	0.000642	
			Total BTEX - 2.02	0.00138	0.00103	
			TPH - GRO - NA	NA	NA	
				Benzene - ND	ND	ND
		PBEL	Toluene - 392	0.267	0.201	
EFF-1 (052124)	05/21/2024		Ethylbenzene - 80.8	0.0550	0.0413	
L11-1 (032124)	03/21/2024		Total Xylene - 196	0.134	0.101	
			Total BTEX - 669	0.456	0.342	
			TPH - GRO - NA	NA	NA	
			Benzene - ND	ND	ND	
			Toluene - 33.4	0.0227	0.0171	
EFF-1 (062624)	06/26/2024	PBEL	Ethylbenzene - ND	ND	ND	
LI [-1 (002024)	00/20/2024	FDEL	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:

- 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)

### TABLE 3 SVE<sup>1</sup> Emission Analytical Summary - BTEX<sup>2</sup> & TPH<sup>3</sup>

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 <sup>4</sup> (tons/year)	Emission Volume (gal/day)
New Mexico Enviro	nment Department (NN	IED) Air Quality Burea (	(AQB) Action Level requiring an Air Permit	10	
			Benzene - 0.351	0.000239	0.000180
			Toluene - 1,146	0.780	0.586
EEE 1 (072424)	07/24/2024	PBEL	Ethylbenzene - 0.3040	0.000207	0.000156
EFF-1 (072424)	07/24/2024	FDEL	Total Xylene - 0.6079	0.000414	0.000311
			Total BTEX - 1,147	0.781	0.587
			TPH - GRO - NA	NA	NA
		2024 PBEL	Benzene - 2.59	0.00176	0.00132
			Toluene - ND	ND	ND
EFF-1 (082024)	08/20/2024		Ethylbenzene - ND	ND	ND
EFF-1 (062024)	00/20/2024		Total Xylene - ND	ND	ND
			Total BTEX - 2.59	0.00176	0.00132
			TPH - GRO - NA	NA	NA
			Benzene - ND	ND	ND
			Toluene - ND	ND	ND
EEE 1 (002024)	09/29/2024	PBEL	Ethylbenzene - ND	ND	ND
EFF-1 (092924)	09/29/2024	FDEL	Total Xylene - ND	ND	ND
			Total BTEX - ND	ND	ND
			TPH - GRO - NA	NA	NA
			3Q2024 BTEX Average	0.391	0.294

#### 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)

### TABLE 3 SVE<sup>1</sup> Emission Analytical Summary - BTEX<sup>2</sup> & TPH<sup>3</sup>

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 <sup>4</sup> (tons/year)	Emission Volume (gal/day)
New Mexico Enviro	nment Department (NM	IED) Air Quality Burea (	(AQB) Action Level requiring an Air Permit	10	
			Benzene - ND	ND	ND
			Toluene - 3.09	0.00210	0.00158
EFF-1 (101624)	10/16/2024	PBEL	Ethylbenzene - ND	ND	ND
L11-1 (101024)	10/10/2024	FDLL	Total Xylene - ND	ND	ND
			Total BTEX - 3.09	0.00210	0.00158
			TPH - GRO - NA	NA	NA
		PBEL	Benzene - 46.6	0.0318	0.0239
			Toluene - 156	0.106	0.080
EFF-1 (111424)	11/14/2024		Ethylbenzene - 36.9	0.0251	0.0189
LII-I (III424)	11/14/2024		Total Xylene - 159	0.108	0.0813
			Total BTEX - 399	0.272	0.204
			TPH - GRO - NA	NA	NA
			Benzene - ND	ND	ND
			Toluene - ND	ND	ND
EFF-1 (121024)	12/10/2024	PBEL	Ethylbenzene - ND	ND	ND
LI-F-1 (121024)	12/10/2024	FDEL	Total Xylene - ND	ND	ND
	Total BTEX - ND		Total BTEX - ND	ND	ND
			TPH - GRO - NA	NA	NA
		0.137	0.103		
			2024 Annual BTEX Average	0.169	0.165

#### 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)

### Table 4 MW-1 SVE<sup>1</sup> System Operation & Recovery Summary

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

NMOCD<sup>2</sup> Incident ID #: nAPP2109734163

All measurements are in feet above mean sea level

Well ID	Date	Top of Casing (TOC) <sup>3</sup> Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH <sup>4</sup> Thickness (feet)	Corrected Groundwater Elevation**	PID⁵ Reading	SVE Unit Hours of Operation	Total Fluid Recovery <sup>†</sup> (gallons)
	01/03/2024		84.77	85.49	0.72	3,455.37	-	-	126
	01/30/2024		ı	-	-	-	502.6	174.2	=
	01/31/2024		73.70	74.38	0.68	3,466.45	-	185.05	126
	02/15/2024		ı	-	-	-	408.5	311.9	=
	02/20/2024		73.88	74.38	0.50	3,466.30	-	363.2	126
	02/27/2024		ı	ı	-	=	-	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		Ī	-	-	-	-	546.0	-
	04/16/2024		i	-	-	-	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	-
MW-1	06/27/2024	3,540.25	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		ī	-	-	-	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
- $^{\star}$  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.
- <sup>†</sup> Via Aggressive Fluid Recovery (AFR) and/or Manual Recovery.

# Appendix A Laboratory Analytical Reports (Groundwater)



## Pace Analytical® ANALYTICAL REPORT





Ss

Cn

Sr Qc

Gl

Αl



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

Entire Report Reviewed By: 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

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Sc: Sample Chain of Custody

21

### SAMPLE SUMMARY

MW-1 L1713919-01 GW			Collected by Kimble Thrash	Collected date/time 03/07/24 17:20	Received da 03/09/24 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-SIM	WG2246299 WG2244545	1	03/14/24 03:17 03/13/24 20:43	03/14/24 03:17 03/14/24 22:14	CDD JRM	Mt. Juliet, TN Mt. Juliet, TN
MW-2 L1713919-02 GW			Collected by Kimble Thrash	Collected date/time 03/07/24 12:35	Received da 03/09/24 08	
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
MW-3 L1713919-03 GW			Collected by Kimble Thrash	Collected date/time 03/07/24 13:40	Received da 03/09/24 08	
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
MW-4 L1713919-04 GW			Collected by Kimble Thrash	Collected date/time 03/07/24 14:55	Received da 03/09/24 08	
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
MW-5 L1713919-05 GW			Collected by Kimble Thrash	Collected date/time 03/07/24 16:05	Received da 03/09/24 08	
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
MW-6 L1713919-06 GW			Collected by Kimble Thrash	Collected date/time 03/07/24 09:00	Received da 03/09/24 08	
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
MW-7 L1713919-07 GW			Collected by Kimble Thrash	Collected date/time 03/07/24 10:10	Received da 03/09/24 08	
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
DUP-1 L1713919-08 GW			Collected by Kimble Thrash	Collected date/time 03/07/24 17:21	Received da 03/09/24 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location



















Volatile Organic Compounds (GC) by Method 8021B

WG2246299

03/14/24 05:56

CDD

Mt. Juliet, TN

03/14/24 05:56

### SAMPLE SUMMARY

Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 06:19	03/14/24 06:19	CDD	Mt. Juliet, TN
			date/time	date/time		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
MW-8 L1713919-10 GW			Kimble Thrash	03/07/24 11:20	03/09/24 08	:00
			Collected by	Collected date/time	Received da	
Volatile Organic Compounds (GC) by Method 8021B	WG2246299	1	03/14/24 00:12	03/14/24 00:12	CDD	Mt. Juliet, TN
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
TRIP BLANK L1713919-09 GW			Kimble Thrash	03/07/24 00:00	03/09/24 08	:00



















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.





















#### Page 37 of 318

# SAMPLE RESULTS - 01

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

#### Volatile Organic Compounds (GC) by Method 8021B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	0.0114		0.000190	0.000500	1	03/14/2024 03:17	WG2246299
Toluene	0.00152	В	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

# <sup>1</sup>Cp



³Ss

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
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	<u>J</u>	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	ВJ	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	<u>J</u>	0.0000200	0.000500	1	03/14/2024 22:14	WG2244545
2-Methylnaphthalene	0.000393	<u>J</u>	0.0000280	0.000500	1	03/14/2024 22:14	WG2244545
2-Chloronaphthalene	0.0000162	<u>J</u>	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













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# SAMPLE RESULTS - 02

L1713919

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
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



















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# SAMPLE RESULTS - 03

L17139

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
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



















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

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# SAMPLE RESULTS - 04

L1713919

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
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



















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

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### SAMPLE RESULTS - 05

L1713919

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
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



















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

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### SAMPLE RESULTS - 06

L1713919

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
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



















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

# SAMPLE RESULTS - 07

L1713919

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
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



















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

### SAMPLE RESULTS - 08

L1713919

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	0.0118		0.000190	0.000500	1	03/14/2024 05:56	WG2246299
Toluene	0.00156	В	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



















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

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# SAMPLE RESULTS - 09

L1713919

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>	
Analyte	mg/l		mg/l	mg/l		date / time		
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	



















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

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#### SAMPLE RESULTS - 10

L1713919

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
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



















#### QUALITY CONTROL SUMMARY

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Volatile Organic Compounds (GC) by Method 8021B

L1713919-01,02,03,04,05,06,07,08,09,10

#### Method Blank (MB)

(MB) R4046130-3 03/13/2	(MB) R4046130-3 03/13/24 23:03						
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/l		mg/l	mg/l			
Benzene	U		0.000190	0.000500			
Toluene	0.000490	<u>J</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			

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

(LCS) R4046130-1 03/13/2	CS) R4046130-1 03/13/24 20:26 • (LCSD) R4046130-4 03/13/24 23:26											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%		
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						





















#### QUALITY CONTROL SUMMARY

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

1713919-01

#### Method Blank (MB)

(MB) R4046308-3 03/1	5/24 18:13				1
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	
Anthracene	U		0.0000190	0.0000500	L
Acenaphthene	U		0.0000190	0.0000500	3
Acenaphthylene	U		0.0000170	0.0000500	Ľ
Benzo(a)anthracene	U		0.0000200	0.0000500	4
Benzo(a)pyrene	U		0.0000180	0.0000500	
Benzo(b)fluoranthene	U		0.0000170	0.0000500	느
Benzo(g,h,i)perylene	U		0.0000180	0.0000500	5
Benzo(k)fluoranthene	U		0.0000200	0.000250	Ľ
Chrysene	U		0.0000180	0.0000500	6
Dibenz(a,h)anthracene	U		0.0000180	0.0000500	
Fluoranthene	0.0000129	<u>J</u>	0.0000110	0.0000500	
Fluorene	U		0.0000170	0.0000500	7
Indeno(1,2,3-cd)pyrene	U		0.0000180	0.0000500	
Naphthalene	U		0.000128	0.000500	8
Phenanthrene	0.0000202	<u>J</u>	0.0000180	0.0000500	
Pyrene	U		0.0000170	0.0000500	
1-Methylnaphthalene	U		0.0000200	0.000500	9
2-Methylnaphthalene	U		0.0000280	0.000500	L
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	

### 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											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%	
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	

<sup>2</sup>Tc











#### QUALITY CONTROL SUMMARY

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

1713919-01

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

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
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				



















#### 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

Appreviations and	d 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.

Quali	fier	C	escription

	'
В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.























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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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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	LAO00356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	Al30792	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



<sup>\*</sup> Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto

















 $<sup>^* \, \</sup>text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$ 

Company Name/Address:			Billing Info	rmation.		T	T			nahada / Ca			To-1 - 10 - 1	
Plains All American Pip	lains All American Pipeline - ETECH			Accounts Payable					A	nalvsis / Co	ontainer / Preservation	IP.	Chain of Custo	dy Page of
PO Box 62228				333 Clay St									_ /P	ace.
Midland, TX 79711	Midland, TX 79711			Suite 1600 Houston, TX 77002								- 100	PEOP	LE ADVANCING SCIENCE
Report to: Kimble Thrash	Email To: kimble@etechenv.com										1000	JULIET, TN  Mount Juliet, TN 37122		
Project Description: DCP Plant to Lea Station 6" #2		City/State Collected:	GX MI	MG VING	Please Ci								constitutes acknowle Pace Terms and Con-	via this chain of custody edgment and acceptance of the ditions found at: .com/hubfs/pas-standard-
Phone: 432 894 9996	Client Project SRS #2009-	#	<i>puri</i>	Lab Project # PLAINSETECI		Ī							SDG #	713919
Collected by (print): THRASH	Site/Facility II		19	P.O. #			-	I-BIK	1.00				n Di	DZZZ
Collected by (signature):		ab MUST Be	Notified)	Quote #		3	7	HC			S 188		Template:T2	AINSETECH
	Same Da						dm	dm					Prelogin: P1	
Immediately Packed on Ice N Y	Next Da Two Day Three Day	10 Da	(Rad Only) ay (Rad Only)	Date Result	s Needed	No.	40mlAmb-HCl	40mlAmb-H	He				The state of the s	ri A Vahrenkamp
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	BTEX	BTEX	A				Shipped Via: I	Sample # (lab only)
MW-1	6	GW	/	3-7-24	1720	16%	X		X					1
MW-2	G	GW	-	1	112	1	X							701
MW-3	B	GW	-		10160	3	X							-01
MW-4	G	GW	-		1370	1	Carrier Co.							- 03
MW-5	G		-		1455	3	X							-07
MW-6		GW			1605	3	X							-07
MW-7	G	GW	-		0900	3	X							-06
DUP-1	G	GW	/		1010	3	X	600	= = -					-07
	G	GW	/		1721	85	X							-08
TRIP BLANK		GW				71		X						-09
MW-8	G		1	A	1120	20								1-10
S - Soil AIR - Air F - Filter	-	ncludes: 8x0	GW for BTE	X and 1xTrip Bla	Total Control of the	03	19/20	1		рН	Temp	_ COC Seal	ample Receipt C Present/Intact	
WW - WasteWater										Flow	Other	Bottles	ed/Accurate: arrive intact:	
DW - Drinking Water DT - Other	imples returned v _ UPS FedEx		MINING.	Trackin	g#	1				311	1009	Sufficie	bottles used: nt volume sent: If Applicab	
Relinquished by : (Signature)	) Dat		Time:		ed by: (Signatu	ire)	_	-	Tr	ip Blank Re	ceived: Yes/No HCL/Meo	Preserva RAD Screen	Headspace: tion Correct/Ch en <0.5 mR/hr:	ecked: YNNN
Relinquished by : (Signature)	Date 3	/ /	Time:	145 Receive	ed by: (Signatu	ire)			Te	emp:\A	PC Bottles Receive	d If preserva	tion required by Lo	gin: Date/Time
Relinquished by : (Signature)	Date	10	Time:		ed for lab by: (	Signatu	re)	$\sim$	Di	1-1011y- ate: 292 U	Time: 2:1	Hold:		Condition NCF / OK

# 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 Counnty, NM

Lab Order Number: 4F13014



**Current Certification** 

Report Date: 06/19/24

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	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

13000 West County Road 100

Project Number: SRS 2009-039

Project: SRS 2009-039

Odessa TX, 79765

Project Manager: Kimble Thrash

#### **MW-1** 4F13014-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envii	ronmental I	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	

13000 West County Road 100 Odessa TX, 79765 Project: SRS 2009-039 Project Number: SRS 2009-039

Project Manager: Kimble Thrash

#### MW-2 4F13014-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental I	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	

13000 West County Road 100

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

Odessa TX, 79765

#### **MW-3** 4F13014-03 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental I	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	

13000 West County Road 100 Odessa TX, 79765 Project Number: SRS 2009-039
Project Manager: Kimble Thrash

MW-4 4F13014-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		n		D : E :	4.1				

#### Permian Basin Environmental Lab, L.P.

Organics by GC								
Benzene	ND 0.00	0100 mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Toluene	ND 0.00	0100 mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Ethylbenzene	ND 0.00	0100 mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Xylene (p/m)	ND 0.00	0200 mg/L	1	P4F1404	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Xylene (o)	ND 0.00	0100 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 0.00	0100 mg/L	1	[CALC]	06/14/24 15:16	06/14/24 21:57	EPA 8021B	
Xylenes (total)	ND 0.00	0100 mg/L	1	[CALC]	06/14/24 15:16	06/14/24 21:57	EPA 8021B	

Project Manager: Kimble Thrash

Project: SRS 2009-039

13000 West County Road 100 Project Number: SRS 2009-039 Odessa TX, 79765

#### **MW-5** 4F13014-05 (Water)

		Reporting							- 1
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, 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	

13000 West County Road 100 Odessa TX, 79765 Project Number: SRS 2009-039 Project Manager: Kimble Thrash

#### MW-6 4F13014-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental I	ab, 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	

13000 West County Road 100 Odessa TX, 79765

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,4-Difluorobenzene

Total BTEX

Xylenes (total)

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
		P	ermian I	Basin Envi	ronmental L	ab, 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	

P4F1404

P4F1404

[CALC]

[CALC]

06/14/24 15:16

06/14/24 15:16

06/14/24 15:16

06/14/24 15:16

06/14/24 23:46

06/14/24 23:46

06/14/24 23:46

06/14/24 23:46

EPA 8021B

EPA 8021B

EPA 8021B

EPA 8021B

101 %

96.3 %

ND 0.00100

ND 0.00100

80-120

80-120 mg/L

13000 West County Road 100 Odessa TX, 79765

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

> **MW-8** 4F13014-08 (Water)

	1	Reporting						
Analyte	Result	Limit Un	ts Dilution	Batch	Prepared	Analyzed	Method	Notes
		Perm	ian Basin Env	vironmenta	l 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

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
		P	ermian B	asin Envi	ronmental I	ab, 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	

13000 West County Road 100 Odessa TX, 79765 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
<u> </u>		· · · · · · · · · · · · · · · · · · ·								
Batch P4F1404 - *** DEFAULT PREP ***				D 10		0.6/4.4/0.4				
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.

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.

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
	Result	Limit	Omis	Level	Result	70KEC	Lillits	KI D	Liiiit	Notes
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: 0	06/14/24 Aı	nalyzed: 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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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
Batch P4F1404 - *** DEFAULT PREP ***										
Calibration Check (P4F1404-CCV3)				Prepared: (	06/14/24 A	nalyzed: 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 A	nalyzed: 06	/15/24			
Benzene	0.125	0.00100	mg/L	0.100	ND	125	80-120			QM-0
Toluene	0.116	0.00100	"	0.100	ND	116	80-120			
Ethylbenzene	0.138	0.00100	"	0.100	ND	138	80-120			QM-0
Xylene (p/m)	0.252	0.00200	"	0.200	ND	126	80-120			QM-0
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)	Sou	rce: 4F12008-	06	Prepared: (	06/14/24 A	nalyzed: 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-0
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			

13000 West County Road 100 Odessa TX, 79765 Project Number: 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 CC 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

Duplicate

MS Matrix Spike

Dup

	Drew	Darron		
Report Approved By:			Date:	6/19/2024

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.

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

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.

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0,	A PARTIE	10 00 200		
3 7		a M	1	DE.
		DF SEP 20 4	F 4000 1	oper down

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Received by:

Received by:

Date

Permian Basin Environmental Lab, LP

Phone: 432-686-7235

1400 Rankin HWY Midland, Texas 79701

Kimble Thrash Project Manager:

Etech Environmental & Safety Solutions, Inc. Company Name:

P.O. Box 6228 Company Address:

Midland, TX 79711 City/State/Zip:

(432) 563-2200 Telephone No:

Relinquished by:

Relinquished by:

Relinquished by:

Fax No: (432) 563-2213

Report Format: Standard

VOCs Free of Headspace?

Custody seals on container(s) Custody seals on cooler(s)

by Sampler/Client Rep. ?

Temperature Upon Receipt:

UPS

°C

Thermometor: Factor:

Labels on container(s)

Sample Hand Delivered

by Courier?

Received: 4.1

Date

Date

Time

PO #:

Project Name: SRS 2009-039

Project #: SRS 2009-039

Project Loc: Lea County, NM

CH:

TRRP

NPDES

Page 17 of

lab use only	)	7														1			Ar	nalyz	e Fo	r:			2 h	
	4F13014										_				1			TOTA		П	$\Box$	T		$\Box$	48,7	
ORDER #:	4510014	+				_	Н	P	reser	vatio	n & #	of C	ontair	ners	Matrix			101	AL:	+	+	+	$\vdash$	++	- 24,	
AB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #, of Containers	lce	HNO3	ĪĢ.	H <sub>2</sub> SO <sub>4</sub>	HOEN	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	BTEX 8021 B									RUSH TAT (Pre-Schedule)	Standard TAT
1	MW-1			06/12/24	1400		3			3					GW	3										X
2	MW-2			06/11/24	1700		3			3					GW	3										X
3	MW-3			06/11/24	1550		3			3					GW	3										X
4	MW-4			06/11/24	1445		3			3					GW	3										X
5	MW-5			06/12/24	1245		3			3					GW	3										X
6	MW-6		-	06/11/24	1330		3			3					GW	3										X
7	MW-7			06/11/24	1115		3			3					GW	3										X
8	MW-8			06/11/24	1225		3			3					GW	3										X
9	DUP-1			06/12/24	1246	-	3			3	-		1		GW	3					1	-		+	+	X
Special Ins	tructions: Please invoice directly to Plains A/P 3	333 Clay	St., Ho	uston, TX 7700	2 and refere	ence	the S	RS	num	ber	in th	he P	roje	ct Na	me.		San	nple (	ory Co		ntact			7	NN	1

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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: 4I06006



**Current Certification** 

Report Date: 09/13/24

13000 West County Road 100 Odessa TX, 79765 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	4106006-09	Water	09/05/24 16:46	09-06-2024 09:58

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
		P	ermian B	asin Envii	ronmental I	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	

S-GC

EPA 8021B

EPA 8021B

EPA 8021B

EPA 8021B

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

13000 West County Road 100 Odessa TX, 79765

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,4-Difluorobenzene

Total BTEX

Xylenes (total)

Project: SRS 2009-039

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

## MW-2 4I06006-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Pe	ermian B	Basin Envir	onmental l	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	

P4I0910

P4I0910

[CALC]

[CALC]

09/09/24 13:57

09/09/24 13:57

09/09/24 13:57

09/09/24 13:57

09/10/24 07:03

09/10/24 07:03

09/10/24 07:03

09/10/24 07:03

125 %

99.7%

ND 0.00100

ND 0.00100

80-120

80-120 mg/L

13000 West County Road 100 Odessa TX, 79765 Project: SRS 2009-039 Project Number: SRS 2009-039

Project Manager: Kimble Thrash

# MW-3 4I06006-03 (Water)

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

						,			
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	

13000 West County Road 100 Odessa TX, 79765 Project: SRS 2009-039 Project Number: SRS 2009-039

Project Manager: Kimble Thrash

# MW-4 4I06006-04 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

						, 2.11			
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	12	27%	80-120		P4I0910	09/09/24 13:57	09/10/24 08:29	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	99.	0.6 %	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	

13000 West County Road 100 Odessa TX, 79765 Project: SRS 2009-039 Project Number: SRS 2009-039

Project Manager: Kimble Thrash

## MW-5 4I06006-05 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

		Ci iiiaii Da	9111 E11 V	in onincintal L	ab, L.I.			
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	

S-GC

EPA 8021B

EPA 8021B

EPA 8021B

EPA 8021B

EPA 8021B

09/10/24 09:11

09/10/24 09:11

09/10/24 09:11

09/10/24 09:11

09/10/24 09:11

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

13000 West County Road 100 Odessa TX, 79765

Xylene (o)

Total BTEX

Xylenes (total)

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,4-Difluorobenzene

Project: SRS 2009-039 Project Number: SRS 2009-039

Project Manager: Kimble Thrash

# MW-6 4I06006-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian I	Basin Envii	ronmental I	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	

P4I0910

P4I0910

P4I0910

[CALC]

[CALC]

09/09/24 13:57

09/09/24 13:57

09/09/24 13:57

09/09/24 13:57

09/09/24 13:57

mg/L

80-120

80-120 mg/L

mg/L

ND 0.00100

ND 0.00100

ND 0.00100

125 %

101 %

13000 West County Road 100 Odessa TX, 79765 Project Number: SRS 2009-039 Project Manager: Kimble Thrash

> MW-7 4I06006-07 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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

13000 West County Road 100 Odessa TX, 79765 Project: SRS 2009-039 Project Number: SRS 2009-039

Project Manager: Kimble Thrash

## MW-8 4I06006-08 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B
ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B
ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B
ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B
ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B
	116 %	80-120		P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B
	101 %	80-120		P4I0910	09/09/24 13:57	09/10/24 09:53	EPA 8021B
ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 09:53	EPA 8021B
ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 09:53	EPA 8021B
	ND ND ND ND	ND 0.00100 ND 0.00100 ND 0.00200 ND 0.00100 	ND 0.00100 mg/L  ND 0.00100 mg/L  ND 0.00200 mg/L  ND 0.00100 mg/L  116 % 80-120  101 % 80-120  ND 0.00100 mg/L	ND 0.00100 mg/L 1  ND 0.00100 mg/L 1  ND 0.00200 mg/L 1  ND 0.00100 mg/L 1  ND 0.00100 mg/L 1  116 % 80-120  101 % 80-120  ND 0.00100 mg/L 1	ND 0.00100 mg/L 1 P4I0910  ND 0.00100 mg/L 1 P4I0910  ND 0.00200 mg/L 1 P4I0910  ND 0.00100 mg/L 1 P4I0910  116 % 80-120 P4I0910  101 % 80-120 P4I0910  ND 0.00100 mg/L 1 [CALC]	ND         0.00100         mg/L         1         P4I0910         09/09/24 13:57           ND         0.00100         mg/L         1         P4I0910         09/09/24 13:57           ND         0.00200         mg/L         1         P4I0910         09/09/24 13:57           ND         0.00100         mg/L         1         P4I0910         09/09/24 13:57           116 %         80-120         P4I0910         09/09/24 13:57           ND         0.00100         mg/L         1         [CALC]         09/09/24 13:57	ND         0.00100         mg/L         1         P410910         09/09/24 13:57         09/10/24 09:53           ND         0.00100         mg/L         1         P410910         09/09/24 13:57         09/10/24 09:53           ND         0.00200         mg/L         1         P410910         09/09/24 13:57         09/10/24 09:53           ND         0.00100         mg/L         1         P410910         09/09/24 13:57         09/10/24 09:53           116 %         80-120         P410910         09/09/24 13:57         09/10/24 09:53           101 %         80-120         P410910         09/09/24 13:57         09/10/24 09:53           ND         0.00100         mg/L         1         [CALC]         09/09/24 13:57         09/10/24 09:53

13000 West County Road 100 Odessa TX, 79765 Project: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

**DUP-1** 4I06006-09 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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

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.

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

Batch P4I0910 - *** DEFAULT PREP	***								
Blank (P4I0910-BLK1)				Prepared: 09/09/2	24 Analyzed: 09	9/10/24			
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: 09/09/2	24 Analyzed: 09	9/10/24			
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: 09/09/2	24 Analyzed: 09	9/10/24			
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: 09/09/2	24 Analyzed: 09	9/10/24			
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.

13000 West County Road 100

Project Number: SRS 2009-039

Odessa TX, 79765

Project Manager: Kimble Thrash

Project: SRS 2009-039

# **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
Batch P4I0910 - *** DEFAULT PREP ***										
Calibration Blank (P4I0910-CCB2)				Prepared: (	09/09/24 Aı	nalyzed: 09	/10/24			
Benzene	0.150		ug/l							
Toluene	0.280		"							
Ethylbenzene	1.32		"							B-1
Xylene (p/m)	1.76		"							
Xylene (o)	0.640		"							
Surrogate: 4-Bromofluorobenzene	0.153		"	0.120		127	80-120			S-G0
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			
Calibration Check (P4I0910-CCV1)				Prepared: (	09/09/24 Aı	nalyzed: 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-G0
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			
Calibration Check (P4I0910-CCV2)				Prepared: (	09/09/24 Aı	nalyzed: 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 Aı	nalyzed: 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.

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.

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

Matrix Spike (P4I0910-MS1)	Sour	ce: 4106006-0	)1	Prepared:	09/09/24 An	alyzed: 09	9/10/24			
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)	Sour	ce: 4106006-0	)1	Prepared:	09/09/24 An	alyzed: 09	9/10/24			
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

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			

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

**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

	Dren	Darwort			
Report Approved By:			Date:	9/13/2024	

DaR

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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85 of 318	PBELA	B
Page	Project Manager:	Kim

PBELA Project Manager:	Kimble Thrash			RECORD A	NO ANAL	Per 140	rmia 00 R	n Bas ankin	n Env		nental	Lab, I			Name:	SRS		one: 4		6-723	5		Dags 16 of 16
Company Name:	Etech Environment	al & Sa	afety S	Solutions, Ir	nc.								- 0. 0. 0.		ject #:								7
Company Address	P.O. Box 6228												Pi		t Loc:								
City/State/Zip:	Midland, TX 79711														PO #:								
Telephone No: Sampler Signature	(432) 563-2200			2	Fax No					m; sh	ane@	eteche	_ Repo		ormat:					TRRP		NPD	
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ORDER #: 4 T ()  (Auo esn que)  (Auo esn que)  # BY  FIE	OOO ()	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	#, of Containers			18#0	f Conta		-Drinking Water SL=Sludge  = Groundwater S=Soil/Soild by Non-Potable Specify Other X	80218	ory and	TCL	An						(Pre-Schedule) 24, 48, 72 h
RDER #: 4 T O (	ELD CODE	. Beginning Depth	, Ending Depth	Date Sampled		Filtered	I#, of Containers	Pre	servation	1�	f Conta	ners (Sbecity)	Matur SL=Sludge ter S=Soil/Solid X: Specify Other	BTEX 8021 B	ory and	TCL	An						RUSH IA! (Pre-Schedule) 24, 48, 72 hi
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Special Ir	structions: Please invoice directly to Plains A/P 33	3 Clay 5	St., Hou	iston TX 7700	2 and referen	co the SDS	number in the Design	· N	Hoberton Commit
-7	DUP-1			09/05/24	1646	3	3	GW	3
8	MW-8			09/04/24	1555	3	3	GW	3
7	MW-7	-		09/04/24	1440	3	3	GW	3
6	MW-6		-	09/05/24	0935	3	3	GW	3
5	MW-5		-	09/05/24	1520	3	3	GW	3
9	MW-4			09/05/24	1115	3	3	GW	3
11	MW-3	-	-	09/05/24	1245	3	3	GW	3
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7	MW-7	-		09/04/24	1440	3	3		GW	3			15 1				1
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9	DUP-1		-	09/05/24	1646	3	3		GW	+-			+	+	+	+	+
Special Instruction	ons: Please invoice directly to Plains A/P	333 Clay	St., Ho	ouston, TX 7700	2 and referen	ice the SRS	number in the	Project Na	me.				omment iners Inta				I
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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: 4L16014



**Current Certification** 

Report Date: 12/20/24

13000 West County Road 100 Odessa TX, 79765 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

13000 West County Road 100 Odessa TX, 79765

Project Number: SRS 2009-039

Project: SRS 2009-039

Project Manager: Kimble Thrash

# **MW-1** 4L16014-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, 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	

13000 West County Road 100 Odessa TX, 79765 Project Number: SRS 2009-039
Project Manager: Kimble Thrash

MW-2 4L16014-02 (Water)

Amaluta		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		D,	ermian R	asin Envi	ronmental L	ah I.P			
			ci iiiaii D	asin Envi	ommentar I	ab, L.1.			
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	

13000 West County Road 100 Odessa TX, 79765 Project Number: SRS 2009-039
Project Number: SRS 2009-039
Project Manager: Kimble Thrash

MW-3 4L16014-03 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		D	oumian D	osin Envi	ronmental L	ah I D			
		r	егинан Б	asın envi	ronmentai L	ab, L.F.			
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	

13000 West County Road 100 Odessa TX, 79765 Project Number: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash

> MW-4 4L16014-04 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		D	oumian D	asin Envi	ronmental L	ah I D			
		r	егинан в	asın envi	ronmentai L	ab, 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	

13000 West County Road 100 Odessa TX, 79765 Project: SRS 2009-039

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

# MW-5 4L16014-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental I	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	

13000 West County Road 100 Odessa TX, 79765 Project: SRS 2009-039
Project Number: SRS 2009-039

Project Manager: Kimble Thrash

# MW-6 4L16014-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, 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	

13000 West County Road 100 Odessa TX, 79765 Project Number: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash

> MW-7 4L16014-07 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		D	ormion B	osin Envi	ronmental L	ah I D			
		1	ei iiiiaii d	asiii Liivi	i oninentai 1	au, 1.1.			
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	

13000 West County Road 100 Odessa TX, 79765 Project Number: SRS 2009-039
Project Manager: Kimble Thrash

MW-8 4L16014-08 (Water)

Analyta		Reporting							N .
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Po	ermian B	asin Envi	ronmental I	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	

13000 West County Road 100 Odessa TX, 79765

Xylenes (total)

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

**DUP-1** 4L16014-09 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental I	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	

[CALC]

12/19/24 14:28

12/19/24 18:44

EPA 8021B

ND 0.00100

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.

	D 1:	Reporting	TT 11	Spike	Source	0/855	%REC	DPP	RPD	NT /
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P4L1713 - *** DEFAULT PREP ***										
Blank (P4L1713-BLK1)				Prepared: 1	2/17/24 Aı	nalyzed: 12	2/18/24			
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: 1	2/17/24 Aı	nalyzed: 12	2/18/24			
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-BSD1)				Prepared: 1	2/17/24 Aı	nalyzed: 12	2/18/24			
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: 1	2/17/24 Aı	nalyzed: 12	2/18/24			
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.

RPD

%REC

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.

Spike

Source

Reporting

0.0906

0.0879

0.0881

0.191

0.0890

0.0968

0.131

0.00100

0.00100

0.00100

0.00200

0.00100

mg/L

0.100

0.100

0.100

0.200

0.100

0.120

0.120

A 1.	D 1	Reporting	TT 1/	Spike	D 4	0/DEC	70KEC	DDD	KI D	NT 4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P4L1713 - *** DEFAULT PREP *	**									
Calibration Blank (P4L1713-CCB2)				Prepared:	12/17/24 A	nalyzed: 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-G
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 A	nalyzed: 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-G
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			

Permian Basin Environmental Lab, L.P.

Calibration Check (P4L1713-CCV3)

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,4-Difluorobenzene

Benzene

Toluene

Ethylbenzene

Xylene (p/m)

Xylene (o)

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.

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

90.6

87.9

88.1

95.7

89.0

80.6

109

80-120

80-120

80-120

80-120

80-120

80-120

80-120

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.

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

#### Batch P4L1713 - \*\*\* DEFAULT PREP \*\*\*

Matrix Spike (P4L1713-MS1)	Sour	ce: 4L16006-	18	Prepared:	12/17/24 An	alyzed: 12	2/18/24	
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)	Sour	ce: 4L16006-	18	Prepared:	12/17/24 An	alyzed: 12	2/18/24			
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 & Analy	yzed: 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.

13000 West County Road 100

Odessa TX, 79765

Project Number: 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
Aniaryte	Result	Lillit	Omis	Level	Result	70KEC	Limits	KFD	Liiiit	Notes
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-G
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-G0
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-G
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	80-120			

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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.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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-GO
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-GO
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			
Calibration Check (P4L1913-CCV3)				Prepared: 1	2/19/24 A	nalyzed: 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-GO
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		111	80-120			
Matrix Spike (P4L1913-MS1)	Sou	ırce: 4L16014-	05	Prepared: 1	2/19/24 Aı	nalyzed: 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-GO
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			

Permian Basin Environmental Lab, L.P.

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.

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

#### Batch P4L1913 - \*\*\* DEFAULT PREP \*\*\*

Matrix Spike Dup (P4L1913-MSD1)	Sour	ce: 4L16014-	05	Prepared: 1	2/19/24 A	nalyzed: 12	2/20/24		
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		

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

#### **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 Ct 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

	Dren	Darlor		
Report Approved By:			Date:	12/20/2024

0 02

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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

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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(lab use only)

Reinquished by:

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BBLA	B	DDY RECORD AND ANA	Permian Basin Environn	L: nental Lab, LP	CH:	W:W:	<del></del>	
Project Manager:	Kimble Thrash		1400 Rankin HWY Midland, Texas 79701		Project Name: §	SRS 2009-039		
Company Name:	Etech Environmental & Safe	ety Solutions, Inc.			-	SRS 2009-039		
Company Address:	P.O. Box 6228	<u>:</u> :			Project Loc: <u>L</u>	_ea County, NM		
City/State/Zip:	Midland, TX 79711				PO #:	/		
Telephone No:	(432) 563-2200	Fax N	lo: <u>(432)</u> 563-2213		Report Format:	V Standard [	TRRP	NPDES
Sampler Signature:		e-ma	iii: kimble@etechenv.com; sh	ane@etechenv.	com; camille.bryant@p	olains.com; karolann	e.hudgens@j	plains.com
nly)						Analyze Fo	r:	72 h

Date

Date

Time

Time

16:03

Labels on container(s) Custody seals on container(s)
Custody seals on cooler(s)

Sample Hand Delivered

by Courier?

by Sampler/Client Rep. ?

Temperature Upon Receipt: Received: 101674°C Adjusted: 101674°C

UPS

DHL

674°C Thermometor: NC

	1 1								Allalyze Fol.																					
ORDER#	: 4216014							_	Drese	rvatio	n & :	t of C	`onta	inere		Matrix	+			TOT		+		$\perp$		$\Box$	$\dashv$	$\perp$	8,	
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LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	lce	HNO <sub>3</sub>	HCI	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	<u>(</u> 2)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Driable Specify Other	(ipod)												RUSH TAT (Pre-Schedule)	Standard TAT
1	MW-1	-	-	12/14/24	1640		3			3			Ť		┪	GW	3	1		寸	_	$\top$		<del>                                     </del>	H	十	十		Ħ	X
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3	MW-3	-	_	12/14/24	1335	T	3			3	$\neg$	7	$\exists$		┪	GW	3	1		$\dashv$	_	┰	+	╁┈	H	$\top$	十	+	H	X
4	MW-4	-		12/14/24	1430		3			3	寸	_			$\exists$	GW	3	_		$\neg$	_	$\top$	+	+		$\top$	+	+	H	x
5	MW-5		_	12/14/24	1530		3			3	7	T	寸	7		GW	3	_	H	_	$\dashv$	╁	+	+			_	十	H	x
6	MW-6	_	_	12/14/24	1150		3		寸	3	┪		$\dashv$			GW	3			十	_	+	+	+		$\dashv$	+	+	H	Ŷ
7	MW-7	_		12/14/24	1050		3			3	7		7			GW	3		$\vdash$	+	$\dashv$	╁	╁	$\vdash$	$\dashv$	+	+	+	H	x
8	MW-8	_		12/14/24	0950		3	1		3	$\dashv$	+	$\dashv$	1	+	GW	3		H		_	-	+	+		+	+	+	H	
9	DUP-1	-	-	12/14/24	1641		3			3	_					GW	3						1				士			X X
pecial Instructions: Please invoice directly to Plains A/P 333 Clay St., Houston, TX 77002 and reference the SRS number in the Project Name.									Sam	ple (	ory C Conta ee of	ainers	s Inta	ct?			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		N N	4										

Time

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Received by:

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# Appendix B Laboratory Analytical Reports (Air Emissions)



# Pace Analytical® ANALYTICAL REPORT

February 05, 2024

Revised Report

# Plains All American Pipeline - ETECH

L1700540 Sample Delivery Group: Samples Received: 01/31/2024

Project Number: SRS #2009-039

Description: DCP Plant to Lea Station 6" #2

SRS #2009-039 Site:

Report To: Kimble Thrash

PO Box 62228

Midland, TX 79711

Project Manager















Entire Report Reviewed By: Lori A Vahrenkamp

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



















## SAMPLE SUMMARY

EFF-1 (013024) L1700540-01 Air			Kimble Thrash	01/30/24 11:30	01/31/24 09:	
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



















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

#### 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.

## SAMPLE RESULTS - 01

L1700540

#### Volatile Organic Compounds (MS) by Method M18-Mod

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















#### QUALITY CONTROL SUMMARY

Page 112 of 318

Volatile Organic Compounds (MS) by Method M18-Mod

L1700540-01

#### Method Blank (MB)

(S) 1,4-Bromofluorobenzene

(MB) R4028581-3 01/31/24	10:52			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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)

102

101

(LCS) R4028581-1 01/3	1/24 09:17 • (LCSE	) R4028581-2	2 01/31/24 10:06	6							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	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	

60.0-140













#### QUALITY CONTROL SUMMARY

Page 113 of 318

L1700540-01

Volatile Organic Compounds (MS) by Method M18-Mod

#### Method Blank (MB)

(MB) R4028934-3 02/01/2	MB) R4028934-3 02/01/24 09:49								
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	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	<u>J</u>	39.7	200					
(S) 1,4-Bromofluorobenzene	95.2			60.0-140					

# <sup>5</sup>Sr

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

(LCS) R4028934-1 02/01/24 08:52 • (LCSD) R4028934-2 02/01/24 09	9:22	9:22	22
---	------	------	----

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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				







#### 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 resureported. 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

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



















Pace Analytical National	12065 Lebanon Rd	Mount Juliet	TN 37122
i ace Analytical National		Mount Junet,	111 0/122

		<u> </u>	
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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky <sup>16</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



<sup>\*</sup> Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















 $<sup>^* \, \</sup>text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$ 

Company Name/Address: Billing Information:									Analysis / Cor	alvsis / Container / Preservative				ody Page of	
Company Name/Address: Plains All American Pi	peline - ETE	СН	Accounts	s Payable		Pres Chk		in the second					/1	?~~	
PO Box 62228 Midland, TX 79711	M. 2007 2-00 12		333 Clay Suite 160 Houston											PLE ADVANCING SCIENCE	
Report to: Kimble Thrash				yant@plains.com		udgens				1 2 2			12065 Lebanon Ro Submitting a samp	MT JULIET, TN  12065 Lebanon Rd Mount Juliet, TN 37122  Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the	
Project Description: DCP Plant to Lea Station 6" #2	City/State Collected: Lea County, I			New Mexico	Please C				5					onditions found at: lbs.com/hubfs/pas-standard-	
Phone: (432) 894-9996	Client Project SRS #2009-			Lab Project # PLAINSETEC	H-NM GW								SDG#	100540	
Collected by (print): Kimble Thrash	Site/Facility II SRS #2009-			P.O. #		Tedlar				ko		The second second	Acctnum: PLAINSETECH		
Collected by (signature):	Same D Next Da Two Da	Rush? (Lab MUST Be Notified)  Same Day Five Day  Next Day 5 Day (Rad Only)  Two Day 10 Day (Rad Only)			lts Needed	No.	IOD - BTEX						Template:T Prelogin: P PM: 3587 - PB:		
Packed on Ice N V Y Sample ID	Three D	Matrix *	Depth	Date	Time	of Cntrs	M18-M			- ti			Shipped Via	Sample # (lab only)	
EFF-1 (013024)	Grab	Air	N/A	01-30-2024	1130	1	X		- V2 4					-01	
XXX	-EX	de	OF	CO	C	×	×	火		<b>1 1 1 1 1 1 1 1 1 1</b>					
		Alleger of the									6470				
											100 m				
* Matrix:  SS - Soil AIR - Air F - Filter  GW - Groundwater B - Bioassay  WW - WasteWater	Remarks:						pH Temp COC Seal Pres COC Signed/Ac Bottles arriv						l Present/Inta med/Accurate: arrive intact bottles used:	ive intact:	
DW - Drinking Water OT - Other	Samples returned UPS FedE				king #642		130	8 92				VOA Zer	ent volume sen  If Applic  Headspace:  ration Correct/	ableYN	
Relinquished by : (Signature)		oate: 1/30/1	4 1	618	Wed by: (Sign	e /	ies	hard	Trip Blank R	TBI	L/MeoH	RAD Scr	een <0.5 mR/hr	:N	
Refinquished by : (Signature)	hurch	1/30/3	24 1'	7 30 Rec	eived by: (Sign	nature)		DRAZ	Temp:	fons 1	Received:		vation required by		
Relinquished by : (Signature)	C	Date:	Tim	ne: Reco	eived for lab b	y: (Signa	iture)	ly 3	Date:	Time:	900	Hold:		Condition: NCF OK	



# Pace Analytical® ANALYTICAL REPORT

February 23, 2024





Ss











## Plains All American Pipeline - ETECH

L1706443 Sample Delivery Group:

Samples Received: 02/16/2024

Project Number: SRS #2009-039

SRS #2009-039 Site:

Report To: Kimble Thrash

PO Box 62228

Midland, TX 79711

DCP Plant to Lea Station 6" #2

Description:

Entire Report Reviewed By: 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

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## SAMPLE SUMMARY

EFF-1 (021524) L1706443-01 Air			Collected by Kimble Thrash	Collected date/time 02/15/24 09:15	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



















Lori A Vahrenkamp Project Manager

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.



















## SAMPLE RESULTS - 01

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

Sample Narrative:

#### Volatile Organic Compounds (MS) by Method M18-Mod

L1706443-01 WG2230114: Surrogate failure due to matrix interference

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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		<u>J1</u>		WG2230114
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		108				WG2231025

















#### QUALITY CONTROL SUMMARY

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L1706443-01

Volatile Organic Compounds (MS) by Method M18-Mod

#### Method Blank (MB)

(S) 1,4-Bromofluorobenzene

(MB) R4036238-3 02/20/2	24 10:51			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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 02/2	20/24 09:34 • (  C	SD) R403623	8-2 02/20/241	N:13							
(200) 1000200 1 02/	Spike Amount	,	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppby	%	%	%	Loo Qualifici	200D Qualifier	%	%	
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	

60.0-140

97.1

95.3













#### QUALITY CONTROL SUMMARY

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L1706443-01

# Volatile Organic Compounds (MS) by Method M18-Mod

#### Method Blank (MB)

(MB) R4036784-1 02/21/24	MB) R4036784-1 02/21/24 09:51							
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	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	<u>J</u>	39.7	200				
(S) 1,4-Bromofluorobenzene	97.7			60.0-140				

# <sup>5</sup>Sr

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

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

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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				







#### 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

Apple viations and	
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.

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.























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Pace Analytical	National	12065 L	.ebanon R	d Mount .	Juliet,	TN 3/122

Kentucky²         16         South Dakota         n/a           Louisiana         Al30792         Tennessee¹4         2006           Louisiana         LA018         Texas         T104704245-20-18           Maine         TN00003         Texas⁵         LAB0152           Maryland         324         Utah         TN00032021-11           Massachusetts         M-TN003         Vermont         VT2006           Michigan         9958         Virginia         110033           Minnesota         047-999-395         Washington         C847				
Arizona         AZ0612         New Hampshire         2975           Arkansas         88-0469         New Jersey-PILAP         TN002           California         2932         New Mexico¹         TN0003           Colorado         TN00003         New York         11742           Connecticut         PH-0197         North Carolina¹         Env375           Florida         E87487         North Carolina³         My 2704           Georgia¹         923         North Carolina³         41           Georgia¹         923         North Carolina³         41           Georgia¹         923         North Carolina³         41           Idaho         TN00003         North Dakota         R140           Idaho         TN00003         Oklahoma         9915           Illinois         20008         Oklahoma         9915           Illindina         CTN-01         Oregon         TN00002           Kansas         E-10277         Rhode Island         A000356           Kentucky²         16         South Dakota         n/a           Louisiana         JA018         Texas         Labita           Maisian         Mayona         Texas         Labita	Alabama	40660	Nebraska	NE-OS-15-05
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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           Kentucky¹6         Ky90010         South Carolina         84004002           Kentucky²         16         South Dakota         n/a           Louisiana         LA018         Tennessee¹⁴         2006           Maine         TN00003         Texas 5         LAB0152           Maryland         324         Utah         TN00032021-11           Massachusetts         M-TN003         Vermont         Y72006           Michigan         9958         Virginia         110033           Minnesota         047-999-395         Washington         233           Missosiri         340         West Virginia         233           Missouri         340         Wisconsin         98093910           Montana         CERTO086         Wyoming         A2LA           A2LA – ISO 17025         1461.01         A161.02         DOD	Georgia	NELAP	North Carolina <sup>3</sup>	41
Illinois         200008         Oklahoma         9915           Indiana         C-TN-01         Oregon         TN200002           Iowa         364         Pennsylvania         68-02979           Kansas         E-10277         Rhode Island         LA000356           Kentucky¹6         KY9010         South Carolina         84004002           Kentucky²2         16         South Dakota         n/a           Louisiana         LA018         Tennessee¹⁴         2006           Louisiana         LA018         Texas         T104704245-20-18           Maine         TN00003         Texas 5         LAB0152           Maryland         324         Utah         TN000032021-11           Massachusetts         M-TN003         Vermont         YT2006           Minnesota         047-99-395         Washington         C847           Mississippi         TN00003         West Virginia         233           Missouri         340         Wisconsin         98093910           Montana         CERT0086         Wyoming         A2LA           A2LA – ISO 17025         1461.01         A1HA-LAP, LLC EMLAP         100789	Georgia <sup>1</sup>	923	North Dakota	R-140
Indiana         C-TN-01         Oregon         TN200002           lowa         364         Pennsylvania         68-02979           Kansas         E-10277         Rhode Island         LA000356           Kentucky¹6         KY90010         South Carolina         84004002           Kentucky²         16         South Dakota         n/a           Louisiana         LA018         Tennessee¹⁴         2006           Louisiana         TN0003         Texas ⁵         LAB0152           Maine         TN0003         Texas ⁵         LAB0152           Maryland         324         Utah         TN00032021-11           Massachusetts         M-TN003         Vermont         V72006           Minnesota         9958         Virginia         10033           Minnesota         047-99-395         Washington         C847           Missouri         340         West Virginia         233           Missouri         340         Wisconsin         998093910           Montana         CERT0086         Wyoming         A2LA           A2LA – ISO 17025 6         1461.01         A07-99-395         A07-99-395         A07-99-395         A07-99-395         A07-99-395         A07-99-395	Idaho	TN00003	Ohio-VAP	CL0069
Iowa         364         Pennsylvania         68-02979           Kansas         E-10277         Rhode Island         LA000356           Kentucky¹ 16         KY90010         South Carolina         84004002           Kentucky²         16         South Dakota         n/a           Louisiana         A130792         Tennessee 14         2006           Louisiana         LA018         Texas         104704245-20-18           Maine         TN0003         Texas 5         LAB0152           Maryland         324         Utah         TN00032021-11           Massachusetts         M-TN003         Vermont         VT2006           Michigan         9958         Virginia         10033           Minnesota         047-999-395         Washington         C847           Missouri         340         West Virginia         233           Missouri         340         Wisconsin         998093910           Montana         CERT0086         Wyoming         A2LA           A2LA – ISO 17025         146.01         AIHA-LAP,LLC EMLAP         100789	Illinois	200008	Oklahoma	9915
Kansas         E-10277         Rhode Island         LA000356           Kentucky <sup>16</sup> KY90010         South Carolina         84004002           Kentucky <sup>2</sup> 16         South Dakota         n/a           Louisiana         Al30792         Tennessee <sup>1,4</sup> 2006           Louisiana         LA018         Texas         T104704245-20-18           Maine         TN00003         Texas <sup>5</sup> LAB0152           Maryland         324         Utah         TN000032021-11           Massachusetts         M-TN003         Vermont         VT2006           Michigan         9958         Virginia         110033           Minnesota         047-999-395         Washington         C847           Missouri         340         West Virginia         233           Missouri         340         Wisconsin         998093910           Montana         CERT0086         Wyoming         A2LA           A2LA – ISO 17025         1461.01         AlHA-LAP,LLC EMLAP         100789           A2LA – ISO 17025 <sup>5</sup> 1461.02         DOD         1461.01	Indiana	C-TN-01	Oregon	TN200002
Kentucky <sup>1</sup> 6         KY90010         South Carolina         84004002           Kentucky <sup>2</sup> 16         South Dakota         n/a           Louisiana         Al30792         Tennessee <sup>1</sup> 4         2006           Louisiana         LA018         Texas         T104704245-20-18           Maine         TN0003         Texas <sup>5</sup> LAB0152           Maryland         324         Utah         TN00032021-11           Massachusetts         M-TN003         Vermont         VT2006           Michigan         9958         Virginia         10033           Minnesota         V4-999-395         Washington         C847           Mississippi         TN0003         West Virginia         233           Missouri         Misconsin         998093910           Montana         CERT0086         Wyoming         ALLA           A2LA – ISO 17025         1461.01         AlHA-LAP, LLC EMLAP         100789           A2LA – ISO 17025 <sup>5</sup> 1461.02         DOD         1461.01	lowa	364	Pennsylvania	68-02979
Kentucky²         16         South Dakota         n/a           Louisiana         Al30792         Tennessee¹4         2006           Louisiana         LA018         Texas         T104704245-20-18           Maine         TN00003         Texas 5         LAB0152           Maryland         324         Utah         TN00032021-11           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	Kansas	E-10277	Rhode Island	LAO00356
Louisiana         Al30792         Tennessee <sup>1 4</sup> 2006           Louisiana         LA018         Texas         T104704245-20-18           Maine         TN0003         Texas <sup>5</sup> LAB0152           Maryland         324         Utah         TN00032021-11           Massachusetts         M-TN003         Vermont         VT2006           Michigan         9958         Virginia         110033           Minnesota         047-999-395         Washington         C847           Mississippi         TN0003         West Virginia         233           Missouri         340         Wisconsin         998093910           Montana         CERT0086         Wyoming         A2LA           A2LA – ISO 17025         1461.01         AIHA-LAP,LLC EMLAP         100789           A2LA – ISO 17025 <sup>5</sup> 1461.02         DOD         1461.01	Kentucky 16	KY90010	South Carolina	84004002
Louisiana         LA018         Texas         T104704245-20-18           Maine         TN0003         Texas 5         LAB0152           Maryland         324         Utah         TN00032021-11           Massachusetts         M-TN003         Vermont         VT2006           Michigan         9958         Viginia         10033           Minnesota         047-999-395         Washington         C847           Mississippi         TN0003         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	Kentucky <sup>2</sup>	16	South Dakota	n/a
Maine         TN0003         Texas 5         LAB0152           Maryland         324         Utah         TN00032021-11           Massachusetts         M-TN003         Vermont         VT2006           Michigan         9958         Virginia         110033           Minnesota         047-999-395         Washington         C847           Mississippi         TN0003         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	Louisiana	Al30792	Tennessee 1 4	2006
Maryland       324       Utah       TN00032021-11         Massachusetts       M-TN003       Vermont       VT2006         Michigan       9958       Virginia       110033         Minnesota       047-999-395       Washington       C847         Mississippi       TN0003       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	Louisiana	LA018	Texas	T104704245-20-18
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	Maine	TN00003	Texas <sup>5</sup>	LAB0152
Michigan         9958         Virginia         110033           Minnesota         047-999-395         Washington         C847           Mississippi         TN0003         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	Maryland	324	Utah	TN000032021-11
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	Massachusetts	M-TN003	Vermont	VT2006
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	Michigan	9958	Virginia	110033
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	Minnesota	047-999-395	Washington	C847
Montana         CERT0086         Wyoming         A2LA           A2LA – ISO 17025         1461.01         AIHA-LAP,LLC EMLAP         100789           A2LA – ISO 17025 5         1461.02         DOD         1461.01	Mississippi	TN00003	West Virginia	233
A2LA – ISO 17025       1461.01       AIHA-LAP,LLC EMLAP       100789         A2LA – ISO 17025 5       1461.02       DOD       1461.01	Missouri	340	Wisconsin	998093910
A2LA – ISO 17025 <sup>5</sup> 1461.02 DOD 1461.01	Montana	CERT0086	Wyoming	A2LA
	A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
Canada 1461.01 USDA P330-15-00234	A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
	Canada	1461.01	USDA	P330-15-00234



<sup>\*</sup> Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















 $<sup>^* \, \</sup>text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$ 

Company Name/Address:		NIX I	Billing Info	ormation:		1			Analysis / Cor	ntainer / Pr	eservative		Chain of Cust	ody Page of
Plains All American Pipe PO Box 62228 Midland, TX 79711	PO Box 62228 Midland, TX 79711			s Payable 7 St 00 1, TX 77002		Pres Chk							_ (F	Pace
Report to: Kimble Thrash				camille.bryant@plains.com;karolanne.hudgens									12065 Lebanon Rd	JULIET, TN Mount Juliet, TN 17122
Project Description: City/State  DCP Plant to Lea Station 6" #2 Collected:				Please Circle: PT MT CT ET									Pace Terms and Co https://info.pac.la	e via this chain of custody. ledgment and acceptance of the nducting bond at the One/hubis/pas-standard
Phone: 432 894 9996	Client Project # SRS #2009-039		Lab Project # PLAINSETECH-NM GW									terms.pdf	44 L1706	
Collected by (print): KIMBLE THRASH	Site/Facility ID # SRS #2009-039		P.O. #									J117		
Collected by (signature):  Rush? (La Same Day		ab MUST Be ay Five y 5 Da	Day	Quote #	ALCO E		- BTEX Tedla						Acctnum: PLAINSETECH Template: T246078 Prelogin: P1052420	
Immediately Packed on Ice N Y Y		10 0	Day (Rad Only)	Date Results	Needed	No. of	Mod						РВ:	ori A Vahrenkamp
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	M18-M			-			Shipped Via:	FedEX Ground Sample # (lab only)
EFF-1 (021524)	6	Air	-	2-15-24	0915	1	X							01
XXX EN	) 0													
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water Sam						pH Temp Flow Other				Sample Receipt Checklist COC Seal Present/Intact: NP Y N COC Signed/Accurate: Y N Bottles arrive intact: Y N Correct bottles used: Y N Sufficient volume sent: Y N				
	PSFedEx	Courier	Time:	Tracking Receive	d by: (Signatu	ure)	8308	9169	Trip Blank Rec		S / No CL Meat	VOA Zero	If Applicate Headspace: stion Correct/Cheen < 0.5 mR/hr:	ole Y N
Relinguished by: (Signature)	erds 2	15/2	A Time	1	d by: (Signati	ure)	ivi	wre	Temp:		s Received:	If preserva	ation required by Lo	gin: Date/Time
Relinquished by: (Signature)  ased to Imaging: 7/29/2025 12:0	Dat	e: /	Time:	Receive	d for lab by: (	(Signatu	former	~	Date:	Time	6900	Hold:		Condition:



# Pace Analytical® ANALYTICAL REPORT

March 12, 2024

Revised Report

# Plains All American Pipeline - ETECH

L1709751 Sample Delivery Group:

Samples Received: 02/28/2024

Project Number: SRS #2009-039

Description: DCP Plant to Lea Station 6" #2

SRS #2009-039 Site:

Report To: Kimble Thrash

PO Box 62228

Midland, TX 79711

















Entire Report Reviewed By: 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

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## SAMPLE SUMMARY

EFF-1 (022724) L1709751-01 Air	Kimble Thrash	,				
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
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



















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

#### 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.

# SAMPLE RESULTS - 01

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

# Volatile Organic Compounds (MS) by Method M18-Mod

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Volatile Organic Compounds (MS) by Method M18-Mod

#### QUALITY CONTROL SUMMARY

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L1709751-01

Method Blank (MB)

(MB) R4039283-3 02/28/2	24 09:58			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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-Bromofluorobenzer	пе			101	102	60.0-140				









#### QUALITY CONTROL SUMMARY

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L1709751-01

Volatile Organic Compounds (MS) by Method M18-Mod

#### Method Blank (MB)

(MB) R4040789-3 03/02/24 08:07							
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	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) R4040/89-1	03/02/24 07:03 • (LCS	SD) R4040/89-2	2 03/02/24 0	/:35			
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	

(===)	/													
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits				
Analyte	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								











#### 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 resu 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 fo 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

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























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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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Centucky <sup>1 6</sup>	KY90010	South Carolina	84004002
Centucky <sup>2</sup>	16	South Dakota	n/a
ouisiana	Al30792	Tennessee 1 4	2006
ouisiana	LA018	Texas	T104704245-20-18
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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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



<sup>\*</sup> Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















 $<sup>^{*}</sup>$  Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:	- 15. Tr Tr.		Billing Information:					Analysis / Container / Preservative						Chain of Cus	Chain of Custody Page of		
Plains All American Pig	oeline - ET	ECH	333 Clay			Pres Chk									_ 4	Pace	
Midland, TX 79711			Suite 16 Houstor	600 n, TX 77002										PI	EOPLE ADVANCING SCIENCE	ž.	
Report to: Kimble Thrash		Email To: camille.bryant@plains.com;karolanne.hudgens												12065 Lebanon R	T JULIET, TN  Id Mount Juliet, TN 37122  uple via this chain of custody		
Project Description: DCP Plant to Lea Station 6" #2		City/State Collected: Lea Cot			Please Circle:										Pace Terms and C https://info.pace	owiedgment and acceptance Conditions found at: labs.com/hubfs/pas-standar	of the
Phone: (432) 894-9996	Client Project			Lab Project #											SDG #	T7093	15
Collected by (print): Kimble Thrash	Site/Facility I			P.O. #	0.#		Tedlar								Acctnum: F	PLAINSETECH	
Collected by (signature):	/	Lab MUST Be	7	Quote #			BTEX								Template:	7246078	
Immediately Packed on Ice N X Y	Next Da	9y 5 Da y 10 D	y (Rad Only)	Date Result	s Needed	No. of	950								Prelogin: <b>P1052420</b> PM: 3587 - Lori A Vahrenkamp PB:		
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	M18-MOD								Shipped Via Remarks	Sample # (lab	
EFF-1 (022724)	Grab	Air	N/A	02-27-2024	0930	1	X	3	y I		LI-N					-01	
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SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water		06443 f		d not be invo		the c	clien	t; see		pH Flow		Temp_Other_		COC Sea COC Sig Bottles Correct	Sample Receipt al Present/Inta gned/Accurate: s arrive intact bottles used:	ict: _NP XY	N N
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Relinquished by : (Signature)	Da	ite:	Time		ed for lab by	(Signati	ure)	00.	1	Date:	nel	Time:	900	Hold:		NCF / O	



# Pace Analytical® ANALYTICAL REPORT

April 02, 2024





Ss

Cn

Sr

Qc

Gl

Αl



## Plains All American Pipeline - ETECH

L1718952 Sample Delivery Group:

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

Entire Report Reviewed By: Lori A Vahrenkamp

Project Manager

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Sc: Sample Chain of Custody	10



















## SAMPLE SUMMARY

EFF-1 (032524) L1718952-01 Air			Collected by Robert Peters	Collected date/time 03/25/24 11:05	03/27/24 09:3	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod Volatile Organic Compounds (MS) by Method M18-Mod	WG2255845 WG2256561	1 20	03/28/24 17:01 03/29/24 16:27	03/28/24 17:01 03/29/24 16:27	DAH SDS	Mt. Juliet, TN Mt. Juliet, TN



















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.



















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

# SAMPLE RESULTS - 01

Page 141 of 318

Collected date/time: 03/25/24 11:05

Sample Narrative:

#### Volatile Organic Compounds (MS) by Method M18-Mod

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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		<u>J1</u>		WG2255845
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		106				WG2256561

















#### QUALITY CONTROL SUMMARY

Page 142 of 318

L1718952-01

# Volatile Organic Compounds (MS) by Method M18-Mod

Method Blank (MB)

(MB) R4051206-3 03/28/2	24 10:16			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
Benzene	U		0.0715	0.200
Methyl tert-butyl ether	U		0.0647	0.200
(S) 1.4-Bromofluorobenzene	974			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

(200) 1(10012001 00/20/2	1 00.00 (200	D) 1001200 .	2 00/20/2100	.00						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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				













Volatile Organic Compounds (MS) by Method M18-Mod

#### QUALITY CONTROL SUMMARY

Page 143 of 318

L1718952-01

#### Method Blank (MB)

(MB) R4051796-3 03/29/2	(MB) R4051796-3 03/29/24 09:45					
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	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	<u>J</u>	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											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	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					









#### 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.

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.



















Pace Analytical National	12065 Lebanon Rd	Mount Juliet	TN 37122
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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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



<sup>\*</sup> Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















 $<sup>^* \, \</sup>text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$ 

Company Name/Address:			Billing Info	rmation:					A	nalvsis /	Contain	er / Pre	servative				Chain of Custody	Page of
Plains All American Pipe PO Box 62228	eline - ETI	ECH	Account 333 Clay Suite 16			Pres Chk				200		i puna		a service			Pa	CC
Midland, TX 79711		4		, TX 77002													MT III	LIET, TN
Report to: Kimble Thrash			camille.br	yant@plains.com;		dgens											12065 Lebanon Rd. Mou Submitting a sample via	nt Juliet, TN 37122 this chain of custody
Project Description: DCP Plant to Lea Station 6" #2		City/State Collected:	EA COU	MY, KTU	Please C												constitutes acknowledge Pace Terms and Condition https://info.pacelabs.com terms.pdf	ins found at:
Phone: 4328949996	SRS #2009			Lab Project # PLAINSETECH	I-NM GW		_										SDG #	8952
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# 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

13000 West County Road 100 Odessa TX, 79765 Project Number: 17472

Project Manager: Kimble Thrash

Project: DCP #2

#### 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.

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	Lim Result	it Repor	ting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Pe	rmian l	Basin Envi	ronmental I	Lab, L.P.			
<b>EPA TO-15</b>									
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

13000 West County Road 100

Odessa TX, 79765

Project: DCP #2
Project Number: 17472

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.

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 Ct 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

	Drew	Darlor			
Report Approved By:			Date:	4/30/2024	

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.

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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: 4E21015



**Current Certification** 

Report Date: 06/04/24

13000 West County Road 100Project Number:SRS 2009-84Odessa TX, 79765Project 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

Project: SRS 2009-84

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

13000 West County Road 100

Odessa TX, 79765

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian I	Basin Envi	ronmental I	ab, L.P.			
<b>EPA TO-15</b>									
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

13000 West County Road 100 Odessa TX, 79765 Project SRS 2009-84
Project Number: SRS 2009-84
Project Manager: Kimble Thrash

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

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.

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 CC 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

	Drew	Darror			
Report Approved By:			Date:	6/4/2024	

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.

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Project Manager:

Company Name:

City/State/Zip:

Telephone No:

(lab use only)

Company Address:

Sampler Signature:

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Kimble Thrash	Midland, Texas 79701	Project Name: SR	S 2009-039	
Etech Environmental & Safety So	lutions, Inc.	Project #: SR	S 2009-039	Δ.
P.O. Box 6228		Project Loc: Lea	a County, NM	
Midland, TX 79711		PO #:		
(432) 563-2200	Fax No: (432) 563-2213	Report Format:	Standard TR	RP NPDES
	e-mail: kimble@etechenv.com; shane@eteche	env.com; camille.bryant@plai	ns.com; karolanne.hudg	gens@plains.com

Date

Custody seals on container(s) Custody seals on cooler(s)

by Sampler/Client Rep. ?

Temperature Upon Receipt: Received: Adjusted: C

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LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HCI	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	(y)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Soild	X 8260 B										Columbat Day Cohodule)	RUSH TAT (Pre-Schedule) 2
1	EFF-1 (052124)			5/21/2024	0805	F	1	-	T	-	П		Х		Air	Х	1			П		T		1	$\sqcap$	1	-
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Special Inst	tructions: Please invoice directly to Plains A/P			uston, TX 7700	2 and refere	ence	the S	RS n	umb	er in	the P	roje		Dat		Time	S	ampl OCs	e Co Free	Com ntaine of He	rs Int	tact?		/	(1)	N N	4

Received by:

Date

Received by PBELL LUNG

7/14/2025 1:59:35 PM

Received by OCD:

Relinquished by:

Relinquished by:



#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP 1400 Rankin HWY **Phone: 432-686-7235**PBELAB\_SUB\_COC\_V2

	Project Manager:	Brent Barron						MIC	ııan	a, i	exas	s 79	701				P	rojec	t Na	me:		5	SUBO	CON	ITRA	СТ				
	Company Name	PBEL															_	P	rojec	:t #:										
	Company Address:	1400 Rankin HW	Υ														-	Proj	ect L	.oc:										
	City/State/Zip:	Midland Texas 79	9701														-		P	O #:										
	Telephone No:	432-661-4184					Fax No:										Rep	port I	orm	at:	X	Stan	dard			ΓRRI	Р		NPDE	S
	Sampler Signature:	N/A					e-mail:		brei	ntba	ron(	@pbe	elab	.com																<u> </u>
																			_				An	alyze	For:		1	$\overline{}$		
ORDER :	<b>#:</b>								I	Р	reser	vatior	n & #	of Co	ntaine	ers	M	atrix	ļ											
	<u> </u>										T				T	T			1											
AB # (lab use only)				3eginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	fotal #. of Containers		3 250 poly 1	HCI 3 40mL VOA	74 1 AIVIBER 300/ 230P OL	VAOH / ASCOI DIC ACID 250IVIL P	IONE SOOML POLY 250 MIL POLY 500 ML	Ш	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other											חמום מווסר	STANDARD
LAB #				Begi	Endi	Dat	Tim	Field I	Total	ICE	HNO³	HCI.	752L	NaO	NONE	NONE	DW=D	GW = O	TO-15									Ш	1 70	STAI
	4	E21015				5/21/2024	9:15		1							Χ	Δ	ΙR												Х
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	shed by:	D	ate	Tiı	me	Received by:										Da	te	Т	ime	Sam	ple F	and	on co Delive r/Clier	red				Y Y Y	N N N	,
Relinqui	shed by:	D	ate	Tiı	me	Received by:										Da	te	Т	ime	Tem Rece	bv Co	urier ture		UPS	6 [	OHL ctor		dEx l	one S	tar
																											Pa	age 7	7 of 2	21

Total Number of Pages:

## Laboratory Analysis Report

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

Attn: Brent Barron

Client Address: 1400 Rankin Hwy
City, State, Zip: Midland, Texas, 79701

P.O.#.: Sample Collected By:

Date Collected: 05/21/24

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

 Client Sample ID
 Matrix
 A&B Sample ID

 4E21015
 Air
 24052487.01

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Date: 05/30/2024

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

Analyst:

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

Report Number: RPT240530015



Job ID: 24052487

Date: 5/30/2024

Attn: Brent Barron

24052487.01

Air

Lab Sample ID:

Sample Matrix:

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: 4E21015

Date Collected: 05/21/24 Time Collected: 09:15

Other Information:

Other Inform	ation.							
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		< 2.5000	05/25/24
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	0.2		< 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		< 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		< 1.0000	05/25/24
	1,2-Dichloropropane	112.99	BRL	0.5	0.2		< 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	<pre>15030.7</pre>	< 2.5000	05/25/24
	2-Butanone	72.11	BRL	0.5	0.2		< 2.5000	05/25/24
	4-Ethyltoluene	120	BRL	0.5	0.2	< 12269.9	< 2.5000	05/25/24
	Acetone <sup>2</sup>	58.08	BRL	0.5	0.2		< 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 <sup>1</sup>	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 <sup>2</sup>	76.14	BRL	0.5	0.2	< 7785.3	< 2.5000	05/25/24

ab-q212-0321



Job ID: 24052487

Date: 5/30/2024

Attn: Brent Barron

24052487.01

Air

Lab Sample ID:

Sample Matrix:

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: 4E21015

Date Collected: 05/21/24 Time Collected: 09:15

Other Information:

			<b>-</b> 1:	<b>5</b>		15.77			
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 b	y GCMS							
	Carbon tetrachloride	153.82	BRL	0.5	0.2		< 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		< 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		< 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		< 2.5000		05/25/24
	Cyclohexane	84.16	7.48	0.5	0.2	128735. 5	37.4000		05/25/24
	Dibromochloromethane <sup>2</sup>	208.29	BRL	0.5	0.2		< 2.5000		05/25/24
	Dichlorodifluoromethane	120	BRL	0.5	0.2	< 12269.9	< 2.5000		05/25/24
	Ethanol <sup>2</sup>	46.07	BRL	0.5	0.2		< 2.5000		05/25/24
	Ethyl acetate <sup>2</sup>	88.11	BRL	0.5	0.2	< 9009.2	< 2.5000		05/25/24
	Ethylbenzene	106.17	BRL	0.5	0.2		< 2.5000		05/25/24
	Hexachlorobutadiene	258	BRL	0.5	0.2	< 26380.4	< 2.5000		05/25/24
	Isopropyl Alcohol <sup>2</sup>	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 <sup>2</sup>	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		< 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		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 <sup>2</sup>	72.11	BRL	0.5	0.2		< 2.5000		05/25/24
	Toluene	92.14	BRL	0.5	0.2	< 9421.3	< 2.5000		05/25/24

Page 10 of 21

Q.b

Job ID: 24052487

Date: 5/30/2024

Attn: Brent Barron

24052487.01

Air

Lab Sample ID:

Sample Matrix:

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: 4E21015

Date Collected: 05/21/24 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 b	y 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



TIC\* REPORT

A&B Job Sample ID:	Method Blank
--------------------	--------------

Analysis Date: 5/25/2024

est Method	Parameter/Test Description	CAS#	RT	MW	Reading(nI)**	ppm (v/v)	g/m <sup>3</sup>	Analys
D-15	None							AVB
				ĺ				1

<sup>\*</sup> TIC: Tentatively identified compounds.

Phone: 713-453-6060 www.ablabs.com

<sup>\*\*</sup>The values are estimated relative to the nearest internal standards and only major peaks are reported.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

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	
crans-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5	
	79-00-5	BRL	nL	1	0.5	
1,1,2-Trichloroethane Toluene	108-88-3	BRL			0.5	
			nL	1		
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	
1-Ethyltoluene	622-96-8	BRL	nL	1	0.5	

Refer to the Definition page for terms.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24052487.01$ 

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 LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	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



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

Samples in This QC Batch: 24052487.01

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qua
1,2-Dichloropropane	5	5.24	105	5	5.13	103	2.1	30	69-123	Τ
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	102	5	5.20	101	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	117		5.85	117	1.4	30	67-129	
4-Eurytoiderie Benzyl chloride	5	5.93 5.67	113	5	5.65	117	0.4	30	50-147	
Bromodichloromethane	5	5.67		5						
			103	5	5.11	102	1.2	30	72-128 70 120	
Dibromochloromethane	5	5.15	103	5	5.07	101	1.6	30	70-130	

ab-q213-0321



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24052487.01$ 

QC Type: LCS and LCSI	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Oual
raiailletei	Spk Added	Result	70 REC	Spk Added	Result	70 REC	KPD	CUILIIIII	CUILIIIII	Qual
Vinyl Acetate	5	4.97	99.4	5	4.94	98.8	0.6	30	56-139	

ab-q213-0321

#### LABORATORY TERM AND QUALIFIER DEFINITION REPORT

**Q**<sub>1</sub>**b**<sub>3</sub>

Job ID: 24052487

Date: 5/30/2024

### General Term Definition

Back-WtBack WeightMQLUnadjusted Minimum Quantitation LimitBRLBelow Reporting LimitPost-WtPost Weightcfucolony-forming unitsppmparts per million

cfucolony-forming unitsppmparts per millionConc.ConcentrationPre-WtPrevious WeightD.F.Dilution FactorQQualifier

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

LOQLimit of Quantitation adjusted for %M + DFsurrSurrogateMSMatrix SpikeTTime

MSD Matrix Spike Duplicate TNTC Too numerous to count

MW Molecular Weight UQL Unadjusted Upper Quantitation Limit

Qualifier Definition



# **Sample Condition Checklist**

Α&	B JobID : <b>24052487</b>	Date Received: <b>05/22/2024</b> Time Received: <b>10:</b>	15AM		
Clie	ent Name : Permian Basin Enviror	nmental Lab, LP			
Ter	mperature : 24.1°C	Sample pH: NA			
The	ermometer ID : <b>230292880</b>	pH Paper ID : NA			
Pe	rservative :	Lot#:		1	
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.				Х
2.	Sample(s) in a cooler.			Х	
3.	If yes, ice in cooler.				Х
4.	Sample(s) received with chain-of-cust	ody.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sample	e custody seal.		Х	
7.	Sample containers arrived intact. (If N	o comment)	Х		
8.	Water Soil Liquid SI	udge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate	container(s)	Х		
10.	Sample(s) were received with Proper	preservative			Х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		Х		
13.	Bottle count on C-O-C matches bottles	found.	Х		
14.	Sample volume is sufficient for analyse	es requested.	Х		
15.	Samples were received with in the hol	d time.	Х		
16.	VOA vials completely filled.				Х
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-o	ut			Х
	mments : Include actions taken to resoler: Air (Clear Tedlar Bag). ~EV 5/22/2024	lve discrepancies/problem:			
Jul	(Cical Todial bug) LV 3/22/2024				

Brought by  $\;:\;\;$  FedEx

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

ab-s005-1123

Phone: 713-453-6060 www.ablabs.com

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### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP 1400 Rankin HWY

Phone: 432-686-7235 PBELAB\_SUB\_COC\_V2

	Project Manager:	Brent Barro	on					Mid	llan	id, T	exas	s 79	970 <sup>.</sup>	1				P	roje	et Na	me:			SUE	3CO	NTR	RAC	Γ				_
	Company Name	PBEL								.e									P	roje	ct #:											11.7
	Company Address:	1400 Rank	in HWY																Pro	ject l	.oc:											2020
	City/State/Zip:	Midland Te	xas 79701																	P	O#: <sub>.</sub>											
	Telephone No:	432-661-41	84				Fax No:											Re	oort	Forn	nat:	X	Stan	dard	I		] TRI	₹P		NE	PDE	3
	Sampler Signature:	N/A					e-mail:		bre	ntba	rron(	@pb	elat	o.cor	n				_					Α.	nalu	e For					<del></del>	
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AB# (lab use only) sint of	-	ME.		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	fotal #. of Containers	CE !	HNO <sub>3 250 poly 1</sub>	HCI 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	VaOH /Ascorbic Acid 250ML Po	NaOH/Zn	NONE SOUML POLY 250 MIL POLY 500 ML WM AMBER GLASS ~	NONE	· <i>\$</i>	GW = Groundwater S=Soil/Solid	10-15											24 HOUR RUSH	STANDARD
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SAMPLE RECEIVING

A & B ENVIRONMENTAL SERVICES 10100 EAST FREEWAY SUITE 100

HOUSTON TX 77029

DEPT





22 MAY 5:00P \_ STANDARD OVERNIGHT

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**AB HBYA** 

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TX-US

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including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and

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other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed your actual loss an FedEx for any loss within strict time

nits, see current FedEx Service Guid

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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

13000 West County Road 100 Odessa TX, 79765 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

13000 West County Road 100

Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian l	Basin Envi	ronmental I	ab, L.P.			
<b>EPA TO-15</b>									
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	

13000 West County Road 100

Odessa TX, 79765

Project: SRS 2009-039

Project Number: SRS 2009-039 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.

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 CC Chain of Custody was not generated at PBELAB

Analyte DETECTED DET

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

LCS Laboratory Control Spike

MS Matrix Spike Duplicate

Dup

	Drew	Darlor		
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.

(lab use only)

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4F26022

Killible II	IIIdSII		Project Name: S	RS 2009-039	
Kimble Th	1400 Rankin HWY Midland, Texas 79701				0
	Permian Basin Environ	mental Lab, LP		Phone: 432-686-7235	-
R	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST	Ĺ:	CH:	W:	

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL

Project Manager:	Kimble Thrash	midiaid, Texas 75701	Project Name: SRS 2009-039	ade
Company Name:	Etech Environmental & Safety Solutions, Inc.		Project #: SRS 2009-039	Ğ.
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 # (lab use only)	FIELD CODE		Beginning Depth	Date Sampled	Time Sampled	교	Total #. of Containers	Ino	HCI	H₂SO₄	NaOH Nay-S-O	None	ify)	ter ter	NP≡Non-Potable Specify Ott								RUSH TAT (Pre-Schedule	Standard TAT
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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

Page 7 of 22

	Project Manager:	Midianu, Texas 79701							Proje	ect N	ame	ne: SUBCONTRACT																			
	Company Name	PBEL												Proje	ect#	·										-:					
	Company Address:	1400 Ranki	Project L									Loc	:										_								
	City/State/Zip:	Midland Tex	xas 79701															ı	PO #	:											
	Telephone No:	432-661-41	84				Fax No:	,									Repor	t For	mat:	Χ	Star	ndard			TRR	Р	NPDES				
	Sampler Signature:	N/A					e-mail:	,	bre	ntba	rron	@pbe	lab.	com																	
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ORDER #	<b>#</b> :						:			Р	reser	vation	&#</td><td>of Co</td><td>ntaine</td><td>rs</td><td>Matrix</td><td>ζ.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>></td><td></td><td>YI Y</td><td>۸۲</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>s</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HCI 3 40mL VOA</td><td>יסטי אטיסע</td><td>NaOH/Zn</td><td>VONE SOOML POLY 250 MIL POLY 500 ML</td><td></td><td>Sludge oil/Solid</td><td>Specify Other</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td></tr><tr><td>use only</td><td></td><td></td><td></td><td>Depth</td><td>pth</td><td>pled</td><td>npled</td><td></td><td>ontainers</td><td></td><td>oly 1</td><td>LVOA</td><td>NIDEN.</td><td></td><td>OLY 250 N ASS</td><td></td><td>Nater SL= vater S=So</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>RUSI D</td><td></td></tr><tr><td>AB # (lab use only)</td><td></td><td></td><td></td><td>Beginning Depth</td><td>Ending Depth</td><td>Date Sampled</td><td>Time Sampled</td><td>ield Filtered</td><td>otal #. of Containers</td><td>ICE</td><td>HNO<sub>3 250 poly 1</sub></td><td>HCI 3 40mL VOA</td><td>2004 1 00</td><td>NaOH/Zn</td><td>ONE 500ML F</td><td>NONE</td><td>DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid</td><td>IP=Non-Potable</td><td>10-13-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>24 HOUR RUSH STANDARD</td><td></td></tr><tr><td></td><td>4</td><td>F26022</td><td></td><td></td><td></td><td>6/26/2024</td><td>8:30</td><td>ш</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>zs</td><td>X</td><td>AIR</td><td></td><td>(</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td>Ш</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td><math>oldsymbol{\sqcup}</math></td><td>4</td><td></td><td></td><td>4</td><td>4</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td><math>\perp</math></td><td><math>\vdash \vdash</math></td><td>+</td><td>+-</td><td></td><td>+</td><td>_</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>+</td><td>-</td><td></td><td></td><td></td><td></td><td>+</td><td></td><td></td><td></td><td></td><td>+</td><td>+</td><td><math>\vdash \vdash</math></td><td>+</td><td>H</td><td><math>\blacksquare</math></td><td>+</td><td>1</td></tr><tr><td></td><td>l</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 Lal</td><td>orat</td><td>ory C</td><td>ommo</td><td>ents:</td><td></td><td></td><td></td><td>Ш</td><td></td><td></td><td>1</td></tr><tr><td></td><td></td><td></td><td></td><td colspan=10></td><td></td><td></td><td>Sai</td><td>mple</td><td>Cont</td><td>ainers</td><td>Inta</td><td>ct?</td><td></td><td></td><td colspan=3>Y N</td><td></td></tr><tr><td colspan=4>BRENT BARRON 6/26/2024</td><td>5:00</td><td>) PM</td><td>Received by:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Dat</td><td>:e</td><td>Time</td><td>Lal</td><td colspan=6>OCs Free of Headspace? bels on container(s)</td><td></td><td colspan=3>Y N Y N</td><td></td></tr><tr><td colspan=3></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan=3></td><td>Cu</td><td colspan=6>stody seals on container(s) stody seals on cooler(s)</td><td></td><td colspan=3>Y N Y N</td><td></td></tr><tr><td>Relinqui</td><td>shed by:</td><td></td><td>Date</td><td>Tiı</td><td>ne</td><td>Received by:</td><td colspan=7>Da</td><td>Dat</td><td>:e</td><td>Time</td><td>Sai</td><td colspan=7>mple Hand Delivered by Sampler/Client Rep. ?</td><td colspan=4>Y N Y N</td></tr><tr><td colspan=2>Relinquished by: Date</td><td>Date</td><td>Tiı</td><td>ne</td><td>Received by:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Dat</td><td>:e</td><td>Time</td><td></td><td colspan=7>emperature Upon Receipt:</td><td colspan=5>FedEx Lone Star</td></tr><tr><td colspan=2></td><td></td><td></td><td></td><td></td><td colspan=7></td><td></td><td></td><td></td><td></td><td colspan=7>Received: °C Adjusted: °C Factor</td><td></td><td></td><td></td><td></td></tr></tbody></table>																		

Total Number of Pages:

## Laboratory Analysis Report

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

Attn: Brent Barron

Client Address: 1400 Rankin Hwy
City, State, Zip: Midland, Texas, 79701

Sample Collected By: Date Collected: 06/26/24

P.O.#.:

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

 Client Sample ID
 Matrix
 A&B Sample ID

 4F26022
 Air
 24063189.01

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Date: 07/10/2024

Amit Bembde

60

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.

Analyst:

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

Attn: Brent Barron

24063189.01

Air

Lab Sample ID:

Sample Matrix:

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: 4F26022

Date Collected: 06/26/24 Time Collected: 08:30

Other Information:

Volatile Organic Compounds in Air 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	133.4 167.85	BRL						
1,1,2,2-Tetrachloroethane		BRL						
	167.85		0.5	0.2	< 13640.1	< 2.5000	06/28/24	
1 1 2 Talablana 1 2 2 1 (0 )		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		< 2.5000		
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		< 2.5000		
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		< 1.0000	06/28/24	
1,2-Dichloropropane	112.99	BRL	0.5	0.2		< 2.5000		
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		< 2.5000	06/28/24	
4-Ethyltoluene	120	BRL	0.5	0.2	< 12269.9	< 2.5000	06/28/24	
Acetone <sup>2</sup>	58.08	BRL	0.5	0.2		< 2.5000		
Benzene	78.11	BRL	0.2	0.2		< 1.0000	06/28/24	
Benzyl chloride	126.59	BRL	0.5	0.2		< 2.5000		
Bromodichloromethane <sup>1</sup>	163.83	BRL	0.5	0.2	< 16751.5	< 2.5000	06/28/24	
Bromoform	252.75	BRL	0.5	0.2		< 2.5000	06/28/24	
Bromomethane Carbon disulfide <sup>2</sup>	94.94 76.14	BRL BRL	0.5 0.5	0.2 0.2		< 2.5000 < 2.5000	06/28/24 06/28/24	

ab-q212-0321



Job ID: 24063189

Date: 7/10/2024

Attn: Brent Barron

Client Name : Permian Basin Environmental Lab, LP

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 b	y 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		< 2.5000		06/28/24
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	0.2		< 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 <sup>2</sup>	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 <sup>2</sup>	46.07	BRL	0.5	0.2		< 2.5000		06/28/24
	Ethyl acetate <sup>2</sup>	88.11	BRL	0.5	0.2		< 2.5000		06/28/24
	Ethylbenzene	106.17	BRL	0.5	0.2		< 2.5000		06/28/24
	Hexachlorobutadiene	258	BRL	0.5	0.2	< 26380.4	< 2.5000		06/28/24
	Isopropyl Alcohol <sup>2</sup>	60.1	BRL	0.5	0.2		< 2.5000		06/28/24
	m- & p-Xylenes	106.17	BRL	1	0.2	< 21711.7	< 5.0000		06/28/24
	Methyl Butyl Ketone <sup>2</sup>	100	BRL	0.5	0.2	< 10224.9	< 2.5000		06/28/24
	Methylene chloride	84.93	BRL	0.5	0.2		< 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		< 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		< 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 <sup>2</sup>	72.11	BRL	0.5	0.2		< 2.5000		06/28/24
	Toluene	92.14	1.77	0.5	0.2	33351.3	8.8500		06/28/24

ab-q212-0321

Q.b

Job ID: 24063189

Date: 7/10/2024

Attn: Brent Barron

Client Name : Permian Basin Environmental Lab, LP

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 b	y 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
						170070			

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



TIC\* REPORT

A&B Job Sample ID:	METHOD BLANK
--------------------	--------------

Analysis Date: 6/28/2024

est Method	Parameter/Test Description	CAS#	RT	MW	Reading(nI)**	ppm (v/v)	μg/m³	Analys
O-15	None							AVB
							l	

<sup>\*</sup> TIC: Tentatively identified compounds.

Phone: 713-453-6060 www.ablabs.com

<sup>\*\*</sup>The values are estimated relative to the nearest internal standards and only major peaks are reported.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24063189.01$ 

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	
crans-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5	
	79-00-5	BRL	nL	1	0.5	
1,1,2-Trichloroethane Toluene	108-88-3	BRL			0.5	
			nL	1		
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	
1-Ethyltoluene	622-96-8	BRL	nL	1	0.5	

Refer to the Definition page for terms.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

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 LCS	D									
Dawawatau	LCS	LCS	LCS	LCSD	LCSD	LCSD	DDD	RPD	%Recovery	Overl
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	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.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

Samples in This QC Batch: 24063189.01

007	<u> </u>									
QC Type: LCS and LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qua
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	0.7	30	60-123	
Cyclohexane		5.37	103	_	5.33	104	0.4	30	70-117	
n-Heptane	5 5	5.47	107	5 5	5.33 5.42	107	0.7	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	



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

Samples in This QC Batch: 24063189.01

QC Type: LCS an	d LCSD									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
raiailietei	Spk Added	Result	70 KEC	Spk Added	Result	70 KEC	KPD	CUILIIIII	CUILIIII	Quai
Vinyl Acetate	5	4.86	97.2	5	4.88	97.6	0.4	30	56-139	

#### LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Q.b

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

LOQLimit of Quantitation adjusted for %M + DFsurrSurrogateMSMatrix SpikeTTime

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: <b>24063189</b> Date Received: <b>06/28/2024</b> Time Received: <b>10:00AM</b>												
Clie	nt Name : Permian Basin Environ	mental Lab, LP		1								
Ten	nperature : 23.0°C	Sample pH:	NA									
The	rmometer ID : <b>IR7</b>	pH Paper ID :	NA									
Per	servative :	Lot#:			1	1	1					
		Check I	Points		Yes	No	N/A					
1.	Cooler Seal present and signed.						Х					
2.	Sample(s) in a cooler.					Х						
3.	If yes, ice in cooler.						Χ					
4.	Sample(s) received with chain-of-custo	ody.			Х							
5.	C-O-C signed and dated.				Х							
6.	Sample(s) received with signed sample	custody seal.				Х						
7.	Sample containers arrived intact. (If No	o comment)			х							
8.	Water Soil Liquid Slu Matrix:	idge Solid Ca	assette Tube Bulk Bad	ge Food Other								
9.	Samples were received in appropriate of	container(s)			Х							
10.	Sample(s) were received with Proper p	reservative					Х					
11.	All samples were tagged or labeled.				Х							
12.	Sample ID labels match C-O-C ID's.				Х							
13.	Bottle count on C-O-C matches bottles	found.			Х							
14.	Sample volume is sufficient for analyse	s requested.			Х							
15.	Samples were received with in the hold	l time.			Х							
16.	VOA vials completely filled.						Х					
17.	Sample accepted.				Х							
18.	Has client been contacted about sub-or	ut					Х					
	nments : Include actions taken to resolute Air (clear tedlar bags). ~ANS 06/28/24	ve discrepancies,	/problem:									
Cuit	7.11 (cical calal bags) 7110 00/20/27											

Brought by : FedEx

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

ab-s005-1123

Phone: 713-453-6060 www.ablabs.com

Page 19 of 22







### 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

Job   D:24063189	Project Mar	ınager: <u>Brent Ba</u>	arron			<del>.</del>		_		_							Pı	ojec	t Na	me:		<u> </u>	SUBC	<u>ио:</u>	TRA	<u>CT</u>				_ ;
City/State/Zip: Midland Texas 79701 \ Telephone No: 432-661-4184 Fax No: Report Format: X Standard TRRP NPDES  Sampler Signature: N/A e-mail: brentbarron@btelab.com    Preservation & # of Containers   Matrix   Preservation & # of Containers   Preservation & # o	Company Ñ	Name PBEL	~		د م		<del></del>			****		en.						Pı	rojec	:t #:										//14/
City/State/Zip: Midland Texas 79701 \ PO#:	Company A	Address: 1400 Ra	nkin HWY															Proje	ect L	.oc:										D: 7/14/2025 11:59:85
Telephone No: 432-661-4184  Fax No: Report Format: X Standard TRRP NPDES  Sampler Signature: N/A  e-mail: brentbarron@pbelab.com  Preservation & # of Containers Matrix  Analyze For:    Preservation & # of Containers Matrix   Preservation & # of Containers   Preser	City/State/2	Zip: Midland	Texas 79701		`								-							_										1:39
Sampler Signature: N/A  e-mail: brentbarron@pbelab.com  Analyze For:  Preservation & # of Containers Matrix  Analyze For:  Preservation &	-	-					Fax No:	,									Rep	ort l	- Orπ	at:	x s	Stand	dard		<u> </u>	RRP		 □ N!	PDE:	S
ORDER#:    Preservation & # of Containers   Matrix	•	<del></del>					e-mail:		bre	entba	rron(	@pbe	elab.c	om			•								_					×
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Job   D:24063189	AB# (lab use only)	,		3eginning Depth	inding Depth	Date Sampled	Time Sampled	Held Filtered	otal #. of Containers	CE	4NO3 250 poly 1	HCI 3 40mL VOA	NaOH /Ascorbic Acid 250ML	NaOH/Zn	YONE SOOML POLY 250 MIL POLY 500 ML	NONE	DW=Drinking Water St=Sludge	GV = Groundwater >=Sou/>Solid NP=Non-Potable Specify Other						:					24 HOUR RUSH	STANDARD
Job ID:24063189  OB/28/2024 Permian Basin Environme AMS  1 Laboratory Comments:		4F26022			ш	6/26/2024	8:30	-	+-	<del>  -</del>		<del>1.   .</del>		15	.ZS.	-			7		7	1	1			十	$\Box$	T	Ť	x
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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					<u></u>									. P	rojec	ct N	ame	:		SU	JBC	TNC	RAC	<u>T</u>		•		<u> </u>
	Company-Name	PBEL															Р	roje	ect#	:										7/14/
	Company Address:	1400 Rankin HWY														_	Proj	ject	Loc	:										14/2025 1:59:35
-	City/State/Zip:	Midland Texas 79701				<del>., , </del>										•		F	°O#	:										1:59
	Telephone No:	432-661-4184				Fax No:										- Rei	port	For	mat:		Sta	nda	rd	Г	 ]⊺R	—— RP		NF	PDE:	- <del>3</del> 5 S <b>- 7</b>
	Sampler Signature:		•			· e-mail:	:	bre	ntba	rron@	Dpbe	lab.c	om			•								_	٠٠٠٠ لــ		ı			
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ORIGIN ID:MAFA BRENT BARRON PBE LAB 1400 RANKIN HWY

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

MIDLAND, TX 79701 UNITED STATES US

**BILL SENDER** 

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

583J5/B21D/9AE3

HOUSTON TX 77029
(713) 453-6060





7770 8258 2861

THU - 27 JUN 5:00P STANDARD OVERNIGHT

**AB HBYA** 

77029

IAH



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Page 22 of 22

## 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]

13000 West County Road 100

Odessa TX, 79765

Project: SRS 2009-84

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian I	Basin Envii	ronmental I	ab, 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

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.

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 Ct 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

	Drew	Durior			
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.

PBELAB
DRIAD
TO THE WOOD

Project Manager:

Company Name:

City/State/Zip:

Telephone No:

(lab use only)

Relinquished by:

Sampler Signature:

Company Address:

Kimble Thrash

P.O. Box 6228

(432) 563-2200

Midland, TX 79711

Date

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD	AND ANALYSIS REQUEST
-------------------------	----------------------

of 19 CH: Permian Basin Environmental Lab, LP Phone: 432-686-7235 Page 6 1400 Rankin HWY Midland, Texas 79701 Project Name: SRS 2009-084 Project #: SRS 2009-084 Project Loc: Lea County, NM PO #: Fax No: (432) 563-2213 Report Format: | Standard TRRP NPDES

Custody seals on cooler(s)

Temperature Upon, Receipt:

UPS

DHL

°C Thermometor:

Lone Star

Sample Hand Delivered by Sampler/Client Rep. ?

by Courier?

Received:

Date

ORDER#: 4G2	5000																		Α	naly	ze Fo	or:			
iga	3009								200000	wall and the				1					CLP:						
						T			reserv	ation 8	x # OT	Contai	iners	+	atrix	-	_	10	TAL:	-	$\vdash$				
	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	Total #, of Containers	Ice	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None Other (Specify)	Drinking Water	ovy = Groundwater S=Soil/Solic	BTEX 8260 B									
EFF-	1 (072424)			7/24/2024	1615	1	2			-	-	_	X		ir	X	+	Н	+	+		+	+	+	$\dashv$
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Received by:

Total Number of Pages:

## Laboratory Analysis Report

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

Attn: Brent Barron

Client Address: 1400 Rankin Hwy
City, State, Zip: Midland, Texas, 79701

Sample Collected By:

Date Collected: 07/24/24

P.O.#.:

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

 Client Sample ID
 Matrix
 A&B Sample ID

 4G25009
 Air
 24072687.01

R. Cuit

Analyst: Amit Bembde

Alla

Released By: Gobinath Rangasamy

Title: Project Manager
Date: 08/02/2024



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

Report Number: RPT240802078



Job ID: 24072687

Date: 8/2/2024

Attn: Brent Barron

Client Name: Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: Lab Sample ID: 4G25009 24072687.01

Date Collected: Sample Matrix: 07/24/24 Air 16:15

Time Collected:

Other Inform	nation:							
est Method	Parameter/Test Description	M.W.	Results(nl)	MDL	InjVol(cc)	ug/M3	ppm	Q Date/Time
PA TO-15	<b>Volatile Organic Compounds in Air</b>	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 <sup>2</sup>	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 <sup>1</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	46.07	< 0.26	0.26	1	< 489.9	< 0.2600	07/26/24
	Ethyl acetate <sup>2</sup>	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

Q.b

Job ID: 24072687

Date: 8/2/2024

Attn: Brent Barron

Client Name : Permian Basin Environmental Lab, LP

16:15

Project Name: Subcontract

Client Sample ID: 4G25009 Lab Sample ID: 24072687.01

Date Collected: 07/24/24 Sample Matrix: Air

Time Collected:
Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nI)	MDL	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air b	y GCMS							
	Isopropyl Alcohol <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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

ab-q212-0321

## 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-, ci	638-04-0	14.763	112	3.4	0.001	15.575	3.400



TIC\* REPORT

A&B Job Sample ID:	Method Blank
--------------------	--------------

Analysis Date: 7/26/2024

est Method	Parameter/Test Description	CAS#	RT	MW	Reading(nl)**	ppm (v/v)	μg/m³	Analys
D-15	None							AVB

<sup>\*</sup> TIC: Tentatively identified compounds.

Phone: 713-453-6060 www.ablabs.com

<sup>\*\*</sup>The values are estimated relative to the nearest internal standards and only major peaks are reported.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24072687.01$ 

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	
crans-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5	
	79-00-5	BRL	nL	1	0.5	
1,1,2-Trichloroethane Toluene	108-88-3	BRL			0.5	
			nL	1		
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	
1-Ethyltoluene	622-96-8	BRL	nL	1	0.5	

Refer to the Definition page for terms.



Analysis : Volatile Organic Compounds in Air by GCMS Method : EPA TO-15 Reporting Units : nL

 $\textbf{Samples in This QC Batch} \ : \quad 24072687.01$ 

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											
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery		
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	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		



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

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	Qua		
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			



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

Samples in This QC Batch: 24072687.01

QC Type: LCS and LCS	D									
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	

#### LABORATORY TERM AND QUALIFIER DEFINITION REPORT

G-b LA-B-S

Job ID: 24072687 Date: 8/2/2024

### General Term Definition

Unadjusted Minimum Quantitation Limit MQL Back-Wt **Back Weight** Post Weight BRL Post-Wt Below Reporting Limit ppm parts per million cfu colony-forming units Pre-Wt Previous Weight Conc. Concentration Qualifier D.F. **Dilution Factor** RegLimit Regulatory Limit Front-Wt Front Weight

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

LOQLimit of Quantitation adjusted for %M + DFsurrSurrogateMSMatrix SpikeTTime

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 : <b>24072687</b> Date Received : <b>07/26/2024</b> Time Received : <b>10:18</b>								
Clie	ent Name : Permian Basin Enviror	nmental Lab, LP						
Ter	nperature : 22.5°C	Sample pH: NA						
The	ermometer ID : <b>IR7</b>	pH Paper ID: NA						
Pei	servative :	Lot#:		ı				
		Check Points	Yes	No	N/A			
1.	Cooler Seal present and signed.			Х				
2.	Sample(s) in a cooler.		Х					
3.	If yes, ice in cooler.			Х				
4.	Sample(s) received with chain-of-cust	ody.	Х					
5.	C-O-C signed and dated.	Х						
6.	Sample(s) received with signed sampl		Х					
7.	Sample containers arrived intact. (If N	lo comment)	Х					
8.	Water Soil Liquid SI							
9.	Samples were received in appropriate	Х						
10.	Sample(s) were received with Proper	preservative			Х			
11.	All samples were tagged or labeled.		Х					
12.	Sample ID labels match C-O-C ID's.		Х					
13.	Bottle count on C-O-C matches bottles	found.	Х					
14.	Sample volume is sufficient for analys	es requested.	Х					
15.	Samples were received with in the hol	d time.	Х					
16.	VOA vials completely filled.				Х			
17.	Sample accepted.		Х					
18.	Has client been contacted about sub-c	out			Х			
	mments : Include actions taken to reso er: Air (clear tedlar). ~DG 7/26/24	lve discrepancies/problem:						
Juli	All (Cical teulal). "DG //20/24							

Brought by : FedEx

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

ab-s005-1123

Phone: 713-453-6060 www.ablabs.com

Page 17 of 19



## 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							,							Pi	ojec	t Na	ne:		S	UBC	CON	[RA	CT_				
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		1400 Rankin HWY				<del></del>											Proje	ect L	oc:		_								7023
u	City/State/Zip:	Midland Texas 79701																P	) #:										
	Telephone No:	432-661-4184	···-		, <del>"</del>	Fax No:										Rep	ort F	orm	at:	x 8	Stand	dard		[] τ	RRP	[	NF	PDES	ن
	-					e-mail:	-	brei	athar	ron(	@pbe	lab co	оп											_					N
	Sampler Signature:	. <u>IN/A</u>				o man.	-	D. C.	N.D.O.		8,550					-	_					An	alyze I	For:					
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SHIP DATE: 25JUL24 ACTWGT: 2.00 LB CAD: 107136846/INET4535 DIMS: 13x9x9 IN

MIDLAND, TX 79701 UNITED STATES US

BILL SENDER

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

HOUSTON TX 77029





- 26 JUL 5:00P STANDARD OVERNIGHT

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AB HB

77029

IAH TX-US



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Use of this systen

claim in excess of \$100 per package, whether the result of loss, damage,

Page 19 of 19

## 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

13000 West County Road 100

Odessa TX, 79765

Project: SRS 2009-039

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian l	Basin Envir	onmental I	Lab, L.P.			
<b>EPA TO-15</b>									
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

13000 West County Road 100 Odessa TX, 79765 Project: SRS 2009-039 Project Number: SRS 2009-039 Project Manager: Kimble Thrash

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

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 CC 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

	Drew	Darlor			
Report Approved By:			Date:	9/8/2024	

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.

PO #:

Report Format: | Standard

ne:	432-686-7235	

		Midland, Texas 79701
Project Manager:	Kimble Thrash	

Project Name: SRS 2009-039

Etech Environmental & Safety Solutions, Inc. Company Name:

Project #: SRS 2009-039

P.O. Box 6228 Company Address:

Project Loc: Lea County, NM

TCLP:

TOTAL

City/State/Zip:

(lab use only)

ORDER #:

Midland, TX 79711

TRRP

Telephone No:

(432) 563-2200

Permian Basin Environmental Lab, LP

Preservation & # of Containers

1400 Rankin HWY

Fax No: (432) 563-2213

NPDES

48,

edule) 24,

Page 6 of 20

Sampler Signature:

4421021

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

Matrix

_AB # (lab use onl	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	lce	HNO <sub>3</sub>	Ę	H <sub>2</sub> SO <sub>4</sub>	Na,S,O.	None	Other (Specify)	DW=Drinking Water GW = Groundwater	NP=Non-Potable	BTEX 8260 B									P. GH TAT (Pro.	Standard TAT
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		+				+	$\vdash$	Н	+	+	+	+	+	+		+	+	Н	+	+	Н	+	+	+	Н	+	+
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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							-, -								Proje	ct N	ame			SU	3CC	TNC	RAC	T				
	Company Name	PBEL															F	roje	ect #:	:										
	Company Address:	1400 Rankin HWY															Pro	ject	Loc											
	City/State/Zip:	Midland Texas 79701																												
	Telephone No:	432-661-4184				Fax No:											Report								TF			Пи	PDES	_
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AB # (lab use only)			Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	fotal #. of Containers		HNO <sub>3 250 poly 1</sub>	HCI 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML Po	NONE 500ML POLY 250 MIL POLY 500 ML	VM AMBER GLASS	NONE	<b>ਦ</b> 23	NP=Non-Potable specify Other	61-										24 HOUR RUSH	ANDARD
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Total Number of Pages:

## **Laboratory Analysis Report**

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

Attn: Brent Barron

Client Address: 1400 Rankin Hwy
City, State, Zip: Midland, Texas, 79701

P.O.#.: Sample Collected By:

Date Collected: 08/20/24

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

 Client Sample ID
 Matrix
 A&B Sample ID

 4H21021
 Air
 24082420.01

R. With

Analyst: Amit Bembde

Alla

Released By: Gobinath Rangasamy

Title: Project Manager
Date: 08/29/2024



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

Attn: Brent Barron

Client Name: Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: Lab Sample ID: 4H21021 24082420.01

Date Collected: Sample Matrix: 08/20/24 Air 14:30

Time Collected: 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							
	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		< 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 <sup>2</sup>	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 <sup>1</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	46.07	< 0.26	0.26	20CC	< 24.5	< 0.0130	08/23/24
	Ethyl acetate <sup>2</sup>	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

Q.b

Job ID: 24082420

Date: 8/29/2024

Attn: Brent Barron

24082420.01

Air

Lab Sample ID:

Sample Matrix:

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: 4H21021

Date Collected: 08/20/24 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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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

ab-q212-0321

# 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-, c	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



TIC\* REPORT

Analysis Date: 8/22/2024

est Method	Parameter/Test Description	CAS#	RT	MW	Reading(nI)**	ppm (v/v)	μg/m³	Analys
O-15	None							AVB
				I				1

<sup>\*</sup> TIC: Tentatively identified compounds.

Phone: 713-453-6060 www.ablabs.com

<sup>\*\*</sup>The values are estimated relative to the nearest internal standards and only major peaks are reported.



Analysis : Volatile Organic Compounds in Air by GCMS Method : EPA TO-15 Reporting Units : nL

 $\textbf{Samples in This QC Batch} \ : \quad 24082420.01$ 

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	
crans-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5	
	79-00-5	BRL	nL	1	0.5	
1,1,2-Trichloroethane Toluene	108-88-3	BRL			0.5	
			nL	1		
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	
1-Ethyltoluene	622-96-8	BRL	nL	1	0.5	

Refer to the Definition page for terms.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24082420.01$ 

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 LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	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	



Analysis : Volatile Organic Compounds in Air by GCMS Method : EPA TO-15 Reporting Units : nL

 $\textbf{Samples in This QC Batch} \ : \quad 24082420.01$ 

	_									
QC Type: LCS and LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qua
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	0.2	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	123	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		5.13	103	0.6	30	63-131	
	5	6.37	103	5 5	5.13 6.37	103	0.6	30	63-131	L4
Tetrahydrofuran				-			-			14
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	



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24082420.01$ 

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
i di di lictei	Spk Added	Nesuit	70 INCC	Spk Added	Nesuit	70 IXEC	INI D	CUILIIIIC	CUILIIIIC	Quai
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 Previous Weight colony-forming units Pre-Wt Conc. Qualifier Concentration 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** SDL Laboratory Check Standard Duplicate 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 Time Τ

MSD **TNTC** Matrix Spike Duplicate Too numerous to count

MWUQL Unadjusted Upper Quantitation Limit Molecular Weight

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&I	3 JobID : <b>24082420</b>	Date Received: <b>08/22/2024</b> Time Received: <b>10</b>	:13AM		
Clie	nt Name : Permian Basin Environi	nental Lab, LP			
Ter	nperature : 21.8°C	Sample pH: N/A			
The	rmometer ID : <b>230292880</b>	pH Paper ID : <b>N/A</b>			
Per	servative :	Lot#:		1	
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.				Х
2.	Sample(s) in a cooler.			Х	
3.	If yes, ice in cooler.				Х
4.	Sample(s) received with chain-of-custo	ly.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sample	custody seal.		Х	
7.	Sample containers arrived intact. (If No	comment)	Х		
8.	Water Soil Liquid Slu Matrix:	lge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate c	ontainer(s)	Х		
10.	Sample(s) were received with Proper p	eservative			Х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		Х		
13.	Bottle count on C-O-C matches bottles	ound.	Х		
14.	Sample volume is sufficient for analyses	requested.	Х		
15.	Samples were received with in the hold	time.	Х		
16.	VOA vials completely filled.				Х
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-ou	t			Х
C==	umante i Tueliudo petione tolico te	a disavanansias (nuahlam)			
	nments: Include actions taken to resolver: Air. Received 2 clear tedlar bags. ~MC 08				
	225	•			
<u> </u>					

Brought by : FedEx

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

ab-s005-1123

Phone: 713-453-6060 www.ablabs.com

Page 18 of 20



## 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

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	Company Address:	1400 Rankin HWY														Pro	oject	Loc	<b>::</b>										670
	City/State/Zip:	Midland Texas 79701				08/22/2024	Pe	mli	an B	aair	En.	/Ironi	ne	ams			ı	°O #	!:										
	Telephone No:	432-661-4184				_ Fax No:										Report	For	mat	: X	Sta	ndare	j	Е	]TR	RP		NPE	DES	7 L C
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ORIGIN ID:MAFA BRENT BARRON PBE LAB 1400 RANKIN HWY

(432) 686-7235

SHIP DATE: 21AUG24 ACTWGT: 2.00 LB CAD: 107136846/INET4535 DIMS: 13x9x9 IN

BILL SENDER

MIDLAND, TX 79701 UNITED STATES US

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

583J6/A12D/9AE3

HOUSTON TX 77029
(713) 453-6060
NV:
PO:

DEPT:





THU - 22 AUG 5:00P STANDARD OVERNIGHT

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77029

IAH TX-US





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s and other items listed in our Service Guide. Written claims must be filed

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e package, loss of sales, income interest, profit, attorney's fees, costs, and

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claim in excess of \$100 per package, whether the result of loss, damage, to the service conditions in the current FedEx Service Guide, available on

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within strict time limits, see current FedEx Servi

Page 234

## 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: 4I30007



**Current Certification** 

Report Date: 10/11/24

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

Odessa TX, 79765

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

13000 West County Road 100

Odessa TX, 79765

Project: SRS 2009-039
Project Number: SRS 2009-039

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

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

Analyte	I Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian I	Basin Envii	onmental I	Lab, L.P.			
<b>EPA TO-15</b>									
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

13000 West County Road 100 Odessa TX, 79765 Project Number: SRS 2009-039 Project Manager: Kimble Thrash

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

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.

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 Ct 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

	Drew	Darror			
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.

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: V Standard TRRP NPDES

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

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LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	field Filtered	Total #. of Containers	lce	HNO3	HCI	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Studge GW = Groundwater S=Soil/Solid	X 8260 B											RUSH TAT (Pre-Schedule)
1	EFF-1 (092924)		-	9/29/2024	1530	-	2	-	-	-	+	1							+	+	H	+	+	+	$\vdash$	+	N.
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inquished by:	Date	Time	Received by:	Date		Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DHL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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Released to Imaging: 7/29/2025 12:03:59 PM

Page 6 of 20



## 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					MIC	ııan	ıa, ı	еха	IS /	970	1				Proje	ct N	Nam	e: _		S	UBO	CON	ITRA	СТ					_
	Company Name	PBEL																Proj	ject	#:											_ :
	Company Address:	1400 Rankin HWY															Pro	jec	t Lo	c: _											_
	City/State/Zip:	Midland Texas 79701																	РО	#:											
	Telephone No:	432-661-4184				Fax No:											Report	Fo	rma	t: X	St	and	ard			ΓRRI	P		NPD	ES	
	Sampler Signature:	N/A				e-mail:		bre	ntba	rron	@pb	oelal	b.cor	m																	-
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AB # (lab use only)			Seginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	fotal #. of Containers	CE	HNO <sub>3 250 poly 1</sub>	HCI 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML Po	NaOH/Zn	IONE 500ML POLY 250 MIL POLY 500 ML VM AMBER GLASS	NONE		Ne=Non-Potable Specify Other	TO-15											24 HOUR RUSH	
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Total Number of Pages:

## **Laboratory Analysis Report**

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

Attn: Brent Barron

Client Address: 1400 Rankin Hwy
City, State, Zip: Midland, Texas, 79701

P.O.#.: Sample Collected By:

Date Collected: 09/29/24

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

 Client Sample ID
 Matrix
 A&B Sample ID

 4l30007-01
 Air
 24100028.01

R. With

Analyst: Juan Gonzalez

Released By: Gobinath Rangasamy
Title: Project Manager

Date: 10/08/2024



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

Attn: Brent Barron

Client Name : Permian Basin Environmental Lab, LP

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
PA 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 <sup>2</sup>	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 <sup>1</sup>	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 <sup>2</sup>	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 I	10/01/24
	Dibromochloromethane <sup>2</sup>	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 <sup>2</sup>	46.07	BRL	0.5	20CC	< 47.1	< 0.0250	10/01/24
	Ethyl acetate <sup>2</sup>	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

<u>ab</u>

Job ID: 24100028

Date: 10/8/2024

Attn: Brent Barron

Client Name : Permian Basin Environmental Lab, LP

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:

est Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
PA TO-15	Volatile Organic Compounds in	Air by GCMS							
	Isopropyl Alcohol <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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

Total [VOC] calculated 60.97 11865.4 59 3.049

62.5

BRL

0.21

20CC

10/01/24

< 26.8 < 0.0105

Vinyl Chloride

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-, ci	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



TIC\* REPORT

A&B Job Sample ID: METHOD BLANK

Analysis Date: 10/1/2024

est Method	Parameter/Test Description	CAS#	RT	MW	Reading(nl)**	ppm (v/v)	μg/m³	Analys
O-15	None							JG

<sup>\*</sup> TIC: Tentatively identified compounds.

Phone: 713-453-6060 www.ablabs.com

<sup>\*\*</sup>The values are estimated relative to the nearest internal standards and only major peaks are reported.



Analysis : Volatile Organic Compounds in Air by GCMS Method : EPA TO-15 Reporting Units : nL

Samples in This QC Batch: 24100028.01

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qua
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		1	0.5	
Chlorobenzene	108-90-7	BRL	nL	1	0.5	
			nL			
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	
1-Ethyltoluene	622-96-8	BRL	nL	1	0.5	

Refer to the Definition page for terms.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

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 LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	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.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24100028.01$ 

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qua
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	0.0	30	70-130	



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

Samples in This QC Batch: 24100028.01

QC Type: LCS and LC	SD									
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	

## LABORATORY TERM AND QUALIFIER DEFINITION REPORT

G.b.

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 Previous Weight colony-forming units Pre-Wt Conc. Concentration 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**

Α&	JobID: <b>24100028</b> Date Received: <b>10/01/2024</b> Time Received: 9		9AM		
Clie	ent Name : Permian Basin Environ	mental Lab, LP			
Temperature : 23.8°C Sample pH : NA					
The	Thermometer ID : IR7 pH Paper ID : NA				
Pe	servative :	Lot#:			1
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.			Х	
2.	Sample(s) in a cooler.				
3.	If yes, ice in cooler.			Х	
4.	Sample(s) received with chain-of-custody.				
5.	C-O-C signed and dated.				
6.	Sample(s) received with signed sample custody seal.			Х	
7.	Sample containers arrived intact. (If No comment)				
8.	Water Soil Liquid Slu	dge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate container(s)				
10.	Sample(s) were received with Proper preservative				Х
11.	L. All samples were tagged or labeled.				
12.	2. Sample ID labels match C-O-C ID's.				
13.	3. Bottle count on C-O-C matches bottles found.				
14.	4. Sample volume is sufficient for analyses requested.				
15.	5. Samples were received with in the hold time.				
16.	5. VOA vials completely filled.				Х
17.	7. Sample accepted.				
18.	Has client been contacted about sub-or	ıt			Х
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

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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															Pre	ojeci	l Nan	ne:		S	<u>UBC</u>	LTNO	RAC	I				Ü
Company Name	PÉEL	-			<del></del> ×-												Pr	ojeci	t#:_										7/14
Company Address:	1400 Rankin HWY																Proje	ect L	oc: _										7/14/2025
City/State/Zip:	Midland Texas 79701																	PO	#:_										1:59
Telephone No:	432-661-4184				Fax No:											Rep	ort F	orma	at: >	(S	tand	ard		 at [	RP	[	NF	PDES	35 P
Sampler Signature:	N/A				e-mail:		bre	ntba	arro	n@p	bela	b.co	m																N
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#:		, ,			:				Pres	ervati			Cont	ainer.	5	Ma	trix	1											
		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	fotal #. of Containers	CE	HNO <sub>3 250 poly 1</sub>	HCI 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	NaOH/Zn	VONE SODML POLY 250 MIL POLY 500 ML WM AMBER GLASS	NONE	DW=Drinking Water 5L*Sludge GW # Groundwater S=Soil/Soild	Potable \$	10-15		}				{				24 HOUR RUSH	STANDARD
41	30007-01			9/29/2024	15:30		2					-		2.3	x			х			$\dagger$			1					X
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	Joh ID:24100	<b>028</b>	Ì												寸					$\top$	1	$\Box$		$\top$			┪		
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ORIGIN ID:MAFA BRENT BARRON PBE LAB 1400 RANKIN HWY

(432) 686-7235

SHIP DATE: 30SEP24 ACTWGT: 3.00 LB CAD: 107136846/INET4535 DIMS: 13x9x9 IN

MIDLAND, TX 79701 UNITED STATES US

**BILL SENDER** 

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

58CJ2/B264/C6C4

HOUSTON TX 77029
(713) 453-5060
INV:
PO:

DEPT





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age whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized d file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and etals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed constitutes your agreement to the service conditions in the current FedEx Service Guide, available on hits, see current FedEx Service Guide. fedex.com. FedEx your actual loss at FedEx for any loss delay, non-delive other forms of dai Use of this system jewelτy, precious within strict time

Page 254

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

#### 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

13000 West County Road 100 Odessa TX, 79765

Road 100 Project Number: SRS 2009-039
Project Manager: Kimble Thrash

EFF-1 (101624) 4J17019-01 (Air)

Project: SRS 2009-039

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian I	Basin Envi	ronmental L	ab, 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

13000 West County Road 100

Project: SRS 2009-039 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.

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 Ct 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

	Drew	Darlor			
Report Approved By:			Date:	11/5/2024	

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.

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP 1400 Rankin HWY

Preservation & # of Containers

Midland, Texas 79701

Fax No: (432) 563-2213

Project Manager: Kimble Thrash

Etech Environmental & Safety Solutions, Inc. **Company Name:** 

P.O. Box 6228 Company Address:

4517019

Midland, TX 79711 City/State/Zip:

(432) 563-2200 Telephone No:

Sampler Signature:

(lab use only)

ORDER #

Project Name: SRS 2009-039 Project #: SRS 2009-039

CH:

Project Loc: Lea County, NM

PO #: Report Format: Y Standard

TCLP

TOTAL

Analyze For:

Phone: 432-686-7235

☐ TRRP NPDES

age 6 of 20

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

Matrix

LAB# (lab use only)	FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	lce	HNO <sub>3</sub>	HCI	H <sub>2</sub> SO <sub>4</sub>	NaOH Na-S-O	None	Other ( Specify)	L .	GW = Groundwater S=Soil/Soil: NP=Non-Potable Specify Other	1 1											RUSH TAT (Pre-Schedule)	Standard TAT
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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 Barro	n					IVIIC	ııaıı	u, i	- Aus	, , ,					P	rojec	t Na	me:		S	UBO	CON	ΓRΑC	CT_				
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	Company Address:	1400 Ranki	n HWY														-	Proj	ect L	oc:										
	City/State/Zip:	Midland Tex	xas 79701														-		P	) #: <sub>_</sub>										
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Total Number of Pages:

# **Laboratory Analysis Report**

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

Attn: Brent Barron

Client Address: 1400 Rankin Hwy
City, State, Zip: Midland, Texas, 79701

P.O.#.: Sample Collected By:

Date Collected: 10/16/24

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

 Client Sample ID
 Matrix
 A&B Sample ID

 4J17019
 Air
 24102006.01

R. With

Analyst: Amit Bembde

Alla

Released By: Gobinath Rangasamy
Title: Project Manager
Date: 10/25/2024



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



Job ID: 24102006

Date: 10/25/2024

Attn: Brent Barron

Client Name: Permian Basin Environmental Lab, LP

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			· ,	,				
5 25	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		< 0.5000		10/18/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	1CC		< 0.5000		10/18/24
	1,1,2-Trichloroethane	133.41	BRL	0.5	1CC		< 0.5000		10/18/24
	1,1-Dichloroethane	98.96	BRL	0.5	1CC		< 0.5000		10/18/24
	1,1-Dichloroethylene	96.94	BRL	0.5	1CC		< 0.5000		10/18/24
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	1CC		< 0.5000		10/18/24
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	1CC		< 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 <sup>2</sup>	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 <sup>1</sup>	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 <sup>2</sup>	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		< 0.5000		10/18/24
	Chloroform	119.38	BRL	0.5	1CC		< 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		< 0.5000		10/18/24
	cis-1,3-Dichloropropene	110.97	BRL	0.5	1CC		< 0.5000		10/18/24
	Cyclohexane	84.16	2.31	0.5	1CC	7951.3	2.3100		10/18/24
	Dibromochloromethane <sup>2</sup>	208.29	BRL	0.5	1CC		< 0.5000		10/18/24
	Dichlorodifluoromethane	120	BRL	0.5	1CC	< 2454.0	< 0.5000		10/18/24
	Ethanol <sup>2</sup>	46.07	BRL	0.5	1CC		< 0.5000		10/18/24
	Ethyl acetate <sup>2</sup>	88.11	BRL	0.5	1CC		< 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



Job ID: 24102006

Date: 10/25/2024

Attn: Brent Barron

24102006.01

Air

119951.

959

30.200

Lab Sample ID:

Sample Matrix:

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: 4J17019

Date Collected: 10/16/24 Time Collected: 15:15

Other Information:

Total [VOC] calculated

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 b	y GCMS							
	Isopropyl Alcohol <sup>2</sup>	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 <sup>2</sup>	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	Е	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 <sup>2</sup>	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

30.20

# 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



TIC\* REPORT

Analysis Date: 10/17/2024

est Method	Parameter/Test Description	CAS#	RT	MW	Reading(nI)**	ppm (v/v)	μg/m³	Analys
O-15	None							AVB
				I				1

<sup>\*</sup> TIC: Tentatively identified compounds.

Phone: 713-453-6060 www.ablabs.com

<sup>\*\*</sup>The values are estimated relative to the nearest internal standards and only major peaks are reported.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

Samples in This QC Batch: 24102006.01

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qua
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	
/inyl 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	
rans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5	
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5	
Гoluene	108-88-3	BRL	nL	1	0.5	
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5	
Fetrachloroethylene	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	
n- & p-Xylenes	179601-23-1	BRL	nL	1	1	
Styrene	100-42-5	BRL	nL	1	0.5	
p-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	
I-Ethyltoluene	622-96-8	BRL	nL	1	0.5	

Refer to the Definition page for terms.



Analysis : Volatile Organic Compounds in Air by GCMS Method : EPA TO-15 Reporting Units : nL

 $\textbf{Samples in This QC Batch} \ : \quad 24102006.01$ 

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													
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery				
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	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



Analysis : Volatile Organic Compounds in Air by GCMS Method : EPA TO-15 Reporting Units : nL

Samples in This QC Batch: 24102006.01

	_									
QC Type: LCS and LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qua
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	5.9	30	66-139	
4-Ethyltoluene	5	4.12	82.4		4.37	87.4	5.9	30	67-129	
•				5						
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



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

Samples in This QC Batch: 24102006.01

QC Type: LCS and LCSI	)									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
raiailietei	Spk Added	Result	70 NEC	Spk Added	Nesuit	70 NEC	KFD	CUILIIII	CUILIIIIC	Quai
Vinyl Acetate	5	4.65	93	5	4.83	96.6	3.8	30	56-139	

ab-q213-0321

#### 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 Previous Weight colony-forming units Pre-Wt Conc. Concentration 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

LOQLimit of Quantitation adjusted for %M + DFsurrSurrogateMSMatrix SpikeTTime

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&I	08AM				
Clie	nt Name : Permian Basin Environ	nental Lab, LP			
Ten	nperature : 20.1°C	Sample pH: N/A			
The	rmometer ID : <b>230292880</b>	pH Paper ID : N/A			
Per	servative :	Lot#:		1	
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.			Х	
2.	Sample(s) in a cooler.		Х		
3.	If yes, ice in cooler.		Х		
4.	Sample(s) received with chain-of-custo	dy.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sample	custody seal.		Х	
7.	Sample containers arrived intact. (If No	comment)	Х		
8.	Water Soil Liquid Slu	lge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate c	ontainer(s)	Х		
10.	Sample(s) were received with Proper pr	eservative			Х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		Х		
13.	Bottle count on C-O-C matches bottles i	ound.	Х		
14.	Sample volume is sufficient for analyses	requested.	Х		
15.	Samples were received with in the hold	time.	Х		
16.	VOA vials completely filled.				Х
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-ou	t			Х
F _					
	nments: Include actions taken to resolver: Air. Received 2 clear tedlar bags. ~MC 10	• • • • • • • • • • • • • • • • • • • •			
		,, :			

Brought by : FedEx

Received by: MClotfelter Check in by/date: MClotfelter / 10/18/2024

ab-s005-1123

Phone: 713-453-6060 www.ablabs.com

Page 18 of 20



#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP

Phone: 432-686-7235

Page 19 of 20

		***************************************										HWY as 7	Y 79701	I								PE	BELA.	B_SL	JB_C	OC_V	2			3
	Project Manager:	Brent Barro	n			<del></del>	1-6-11			_						_	. Pr	ojec	t Na	me:		SI	UBC	ONT	RAG	T.				_
	Company Name	PBEL					Job    	י. 		4 I 	U, 			) 				P	roje	ct #:										_
	Company Address:	1400 Ranki	n HWY						IĮ							_		Proj	ect l	Loc:										-
	City/State/Zip:	Midland Tex	xas 79701			10/18	/2024 Pel	mia	n #4	ann		זחסחוי	me	AMS			-		Р	O #:										
	Telephone No:	432-661-41	84				Fax No:										Rep	ort I	Forn	nat:	x s	Standa	ard		] TI	RP	Γ	] <sub>NPI</sub>	DE!	5
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((Auc ean rie))	4	J17019		Beginning Depth	Ending Depth	10/16/2024 10/16/2024	Time Sampled	Field Filtered	7 Total #. of Containers	ICE	HNO <sub>3 250 poly 1</sub>	HCI 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH / Ascorbic Acid 250ML P	NONE SOUNT POLY 250 MIL POLY 550 MIL WM AMBER GLASS	X NONE	DW-Brinking Water StShudge												24 HOUR RUSH	X STANDARD
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Please a	l add tressa@pbelab.co	m to the WOA	. Thank you.			<u> </u>		L	<u> </u>	<b>i</b>	L				1		<b>!</b>		<u> </u>	Sam	ple C		ers In	tact?	e (e) e	100			N N	
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MIDLAND, TX 79701 UNITED STATES US

SHIP DATE: 170CT24 ACTWGT: 2.00 LB CAD: 107136846/INET4535 DIMS: 13x9x9 IN

BILL SENDER

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

58CJ5/4FB6/C6C4

HOUSTON TX 77029
(713) 453-6060
NV:
PO: DEPT:



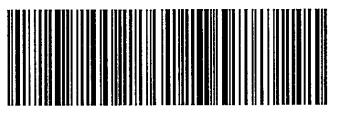
OCT 5:00P 18 FRI \_ STANDARD OVERNIGHT

TRK# 0201 7793 3640 4101

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TX-US

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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

Odessa TX, 79765

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

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

Project: SRS 2009-039

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

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	Note
		P	ermian I	Basin Envii	onmental L	ab, L.P.			
PA 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
1,1,2,2-Tetrachloroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB
1,1,2-Trichlor-1,2,2-Trifluoroeth	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUB
ane									
1,1,2-Trichloroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUE
1,1-Dichloroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUE
1,1-Dichloroethene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUE
1,2,4-Trichlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUE
1,2,4-Trimethylbenzene	2.95	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
1,2-Dibromoethane (EDB)	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
1,2-Dichlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUE
1,2-Dichloroethane	ND	1.00	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
1,2-Dichloropropane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
1,2-Dichlorotetrafluoroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
1,3,5-Trimethylbenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
1,3-Butadiene	ND	1.10	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
1,3-Dichlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
1,4-Dichlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
2-Butanone	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
4-Ethyltoluene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
Acetone	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
Benzene	8.55	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
Benzyl Chloride	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Bromodichloromethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Bromoform	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Bromomethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Carbon disulfide	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Carbon tetrachloride	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Chlorobenzene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
Chloroethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Chloroform	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
Chloromethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
cis-1,2-Dichloroethene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
cis-1,3-Dichloropropene	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Cyclohexane	4.75	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Dibromochloromethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SU
Dichlorodifluoromethane	ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Ethanol	ND ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI
Ethyl Acetate	ND ND	2.50	ppm	1	P4L0510	11/15/24 16:18	11/15/24 16:18	TO-15	SUI

Permian Basin Environmental Lab, L.P.

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)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

	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.

13000 West County Road 100

Odessa TX, 79765

Project: SRS 2009-039

Project Number: SRS 2009-039 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.

13000 West County Road 100

Odessa TX, 79765

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

#### **Notes and Definitions**

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

NPBEL Ct 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

	Drew	Darwort			
Report Approved By:			Date:	12/10/2024	

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.



	Project Manager:	Kimble Thrash			Y RECORD A	IND ANAL	P:	ermi 400 l	an Ba Rank	asin E kin HV Texas	VY		enta	L: al La	b, LF		ject	_CH:_	ıe: S			ne: 4		86-72	!35		- : :	1
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	Company Address:	P.O. Box 6228														P		ct Lo										
	City/State/Zip:	Midland, TX 7971	1															PO		,								
	Telephone No:	(432) 563-2200		$\rightarrow$		Fax No	): <u>(4</u>	32)	563	3-22	13	-				Repo	ort F	orma	ıt: [	Sta	ndar	d		TRE	—— ₹P		NPE	DES
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LAB # (lab use only)	FIELD EFF-1 (	CODE 111424)	Beginning Depth	· Ending Depth	Date Sampled	Time Sampled	Field Filtered	ν Total #. of Containers	eol	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	(¿	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other												RUSH TAT (Pre-Schedule) 24,
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Special Instructions: Please invoice	directly to Flains A/P 333	Clay St., Ho	uston, 1 X 770	02 and referei	nce the	e SRS	nun	nber ir	the Pr	oject	Name.		Lá	abora	tory C	omme	nts:				
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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	l														Pro	ject	Nam	ne: _		Sl	JBC	ON	TRA	СТ				
	Company Name	PBEL																Pro	ject	#:_										
	Company Address:	1400 Rankin	HWY														P	rojed	ct Lo	oc: _										
	City/State/Zip:	Midland Texa	as 79701																РО	#:_										
	Telephone No:	432-661-418	4				Fax No:										Repo	rt Fo	orma	it: >	( St	anda	ard		Т	RRP		NI	PDES	;
	Sampler Signature:	N/A					e-mail:		brei	ntba	ron@	@pbe	lab.	com																
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ORDER #	<b>#</b> •									P	resen	vation	& #	of Co	ntaine	rs	Matr	ix												
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AB # (lab use only)				Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	Fotal #. of Containers	ICE	HNO <sub>3 250 poly 1</sub>	HCl 3 40mL VOA H-SO- 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250MI P.	NaOH/Zn	IONE 500ML POLY 250 MIL POLY 500 ML VM AMBER GLASS	NONE	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid	IP=Non-Potable Specify Other	TO-15										24 HOUR RUSH	TANDARD
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Total Number of Pages:

# **Laboratory Analysis Report**

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

Attn: Brent Barron

Client Address: 1400 Rankin Hwy
City, State, Zip: Midland, Texas, 79701

P.O.#.: Sample Collected By:

Date Collected: 11/14/24

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

 Client Sample ID
 Matrix
 A&B Sample ID

 4K14004
 Air
 24111780.01

R. With

Analyst: Amit Bembde

Alla

Released By: Gobinath Rangasamy
Title: Project Manager
Date: 11/22/2024



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

te Received : 11/15/2024 10:29



Job ID: 24111780

Date: 11/22/2024

Attn: Brent Barron

24111780.01

Air

Lab Sample ID:

Sample Matrix:

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: 4K14004

Date Collected: 11/14/24 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 b	y 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		< 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		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		< 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		< 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		< 2.5000		11/15/24
	4-Ethyltoluene	120	BRL	0.5	0.2CC	< 12269.9	< 2.5000		11/15/24
	Acetone <sup>2</sup> <b>Benzene</b>	58.08 <b>78.11</b>	BRL <b>1.71</b>	0.5 <b>0.2</b>	0.2CC <b>0.2CC</b>	< 5938.7	< 2.5000 <b>8.5500</b>		11/15/24 <b>11/15/24</b>
	Benzyl chloride	126.59	BRL	0.5	0.2CC		< 2.5000		11/15/24
	Bromodichloromethane <sup>1</sup>	163.83	BRL	0.5	0.2CC	_	< 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		< 2.5000		11/15/24
	Carbon disulfide <sup>2</sup>	76.14	BRL	0.5	0.2CC	< 7785.3	< 2.5000		11/15/24

ab-q212-0321



Job ID: 24111780

Date: 11/22/2024

Attn: Brent Barron

Client Name: Permian Basin Environmental Lab, LP

12:30

Project Name: Subcontract

Client Sample ID: 4K14004 Lab Sample ID: 24111780.01

Date Collected: 11/14/24 Sample Matrix: Air

Other Information:

Time Collected:

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 b	y GCMS							
	Carbon tetrachloride	153.82	BRL	0.5	0.2CC		< 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		< 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		< 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		4.7500		11/15/24
	Dibromochloromethane <sup>2</sup>	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 <sup>2</sup>	46.07	BRL	0.5	0.2CC		< 2.5000		11/15/24
	Ethyl acetate <sup>2</sup>	88.11	BRL	0.5	0.2CC	< 9009.2	< 2.5000		11/15/24
	Ethylbenzene	106.17	1.69	0.5	0.2CC		8.4500		11/15/24
	Hexachlorobutadiene	258	BRL	0.5	0.2CC	< 26380.4	< 2.5000		11/15/24
	Isopropyl Alcohol <sup>2</sup>	60.1	BRL	0.5	0.2CC		< 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 <sup>2</sup>	100	BRL	0.5	0.2CC	< 10224.9	< 2.5000		11/15/24
	Methylene chloride	84.93	BRL	0.5	0.2CC		< 2.5000		11/15/24
	MIBK	100.16	BRL	0.5	0.2CC	< 10241.3	< 2.5000		11/15/24
	МТВЕ	88.15	BRL	0.5	0.2CC		< 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		< 2.5000		11/15/24
	Tetrachloroethylene	165.83	BRL	0.5	0.2CC	> 16956.0	< 2.5000		11/15/24
	Tetrahydrofuran <sup>2</sup>	72.11	BRL	0.5	0.2CC		< 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		< 2.5000		11/15/24

ab-q212-0321

G b s

Job ID: 24111780

Date: 11/22/2024

Attn: Brent Barron

24111780.01

Air

Lab Sample ID:

Sample Matrix:

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: 4K14004

Date Collected: 11/14/24 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 b	y 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



TIC\* REPORT

A&B Job Sample ID:	Method Blank
--------------------	--------------

Analysis Date: 11/15/2024

est Method	Parameter/Test Description	CAS#	RT	MW	Reading(nl)**	ppm (v/v)	μg/m³	Analys
O-15	None							AVB
		I		I				1

<sup>\*</sup> TIC: Tentatively identified compounds.

Phone: 713-453-6060 www.ablabs.com

<sup>\*\*</sup>The values are estimated relative to the nearest internal standards and only major peaks are reported.



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		1	0.5	
1,3-Dichlorobenzene	541-73-1	BRL	nL nL	1	0.5	
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5	
1,4-Dichlorobenzene	95-50-1	BRL				
•	95-50-1 120-82-1	BRL	nL	1	0.5	
1,2,4-Trichlorobenzene			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	

Refer to the Definition page for terms.



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

 $\textbf{Samples in This QC Batch} \ : \quad 24111780.01$ 

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 LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	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	



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 LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qu
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	4.47	85.8	5	4.55 4.41	88.2	2.8	30	64-123	
Cyclohexane		4.29 4.47	89.4		4.41	90.4	1.1	30	70-117	
n-Heptane	5 5	4.47	87.6	5 5	4.32 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	



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

 $\textbf{Samples in This QC Batch} \ : \quad 24111780.01$ 

QC Type:	LCS and LCSI	)									
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Vinyl Acetat	te	5	4.02	80.4	5	4.19	83.8	4.1	30	56-139	Quai

#### 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 Previous Weight colony-forming units Pre-Wt Conc. Concentration 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

LOQLimit of Quantitation adjusted for %M + DFsurrSurrogateMSMatrix SpikeTTime

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 : <b>24111780</b> Date Received : <b>11/15/2024</b> Time Received : <b>10:2</b>											
Client Name : Permian Basin Environmental Lab, LP											
Ter	nperature : 22.2°C	Sample pH: N/A									
The	ermometer ID : <b>230292880</b>	pH Paper ID: <b>N/A</b>									
Per	servative :	Lot#:	ı	ı							
		Check Points	Yes	No	N/A						
1.	Cooler Seal present and signed.			Х							
2.	Sample(s) in a cooler.		Х								
3.	If yes, ice in cooler.			Х							
4.	Sample(s) received with chain-of-custoo	у.	Х								
5.	C-O-C signed and dated.		Х								
6.	Sample(s) received with signed sample	custody seal.		Х							
7.	Sample containers arrived intact. (If No	comment)	Х								
8.	Water Soil Liquid Sluc	ge Solid Cassette Tube Bulk Badge Food Other									
9.	Samples were received in appropriate co	ntainer(s)	Х								
10.	Sample(s) were received with Proper pr	eservative			Х						
11.	All samples were tagged or labeled.		Х								
12.	Sample ID labels match C-O-C ID's.		Х								
13.	Bottle count on C-O-C matches bottles for	ound.	Χ								
14.	Sample volume is sufficient for analyses	requested.	Χ								
15.	Samples were received with in the hold	ime.	Х								
16.	VOA vials completely filled.				Х						
17.	Sample accepted.		Х								
18.	Has client been contacted about sub-out				Х						
_											
	nments: Include actions taken to resolver: Air. Received 2 clear tedlar bags. ~MC 11,										

Brought by  $\;:\;\;$  FedEx

Received by: MClotfelter Check in by/date: MClotfelter / 11/15/2024

ab-s005-1123

Phone: 713-453-6060 www.ablabs.com

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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											3/01				Pr	oiec	t Na	me:		SL	JBC	ONT	RAC	T				
TOTORE AND TO	Company Name	PBEL					Job		<b>D</b> :	24	41	1	17	80	) <sup>·</sup>		•			t#:_										7/14
	Company Address:		IWY																	.oc:										14/2025
	City/State/Zip:	Midland Texas				1	1/15/2024	Per	mla	n Bé	nlag	Envi	ironn	ne /	em/			•		- ) #:										1.59.
	Telephone No:	432-661-4184					Fax No:										Rep	ort F	Form	at: X	St	anda	rd	Г	TR	RP	Г	NF	DE!	S 12
	Sampler Signature:						e-mail:	•	brei	ntba	rron	@pt	oelab	.com										_			_	_		×
				•					· · · ·							·		_				1	Anal	yze Fo	r:	1 1	$\overline{}$	$\overline{}$	$\top$	Π
ORDER	#:						:		ı	P	rese	rvatio	on & #	of Co	ntain	ers	Ma	trix	-											
A ★3	ž Ž	K14004		Beginning Depth	Ending Depth	Date Sampled 11/14/2024	12:30	Field Filtered	N Total #. of Containers	ICE	HNO <sub>3.250 poly.1</sub>		H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH/Zn	NONE SOBMIL POLY 250 MIL POLY 500 MIL	X NONE	DW-Drinking Water St. Sludge	NP=Non-Potable Specify Other	Х Б										24 HOUR RUSH	X STANDARD
a particular																														
Please a	add tressa@pbelab.co	m to the WOA. Th	ank you.																	Labor Samp VOCs	le Cor Free	itaine of He	rs Int adspa	act? ce?			Y Y		N N	
	BARRON	11,	/14/2024	5:00	PM	Received by:	dos									Da			me	Label Custo	on c dy se	ontali als on	rer(s) cont	iner(	s)		Y Y		N N	
	ished by: TedGP	11/	Date ,	10	29											Da	te	Ti	me	Samp b	le Hai / Sam / Coui	nd De pler/C ter?	livere lient l	d . Rep. ? JPS 'a	DHI		Y Y edEx	Lon	N N ne Sta	ir.
Relinqu	ished by:		Date	Tir	пе	Received by:									n	Da /1 <b>9</b>	1e /	II IO	me V9	Temp Receiv Adjus	eratů /ed: ted:	72. 22. 22.	on Re	ceipt: *C *C	Facto		<del>1</del>	<b>7</b> ]	מ	

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 RANKIN HWY

ACTWGT: 2.00 LB CAD: 107136846/INET4535 DIMS: 13x9x9 IN

MIDEAND; TX 79701 UNITED STATES US

BILL SENDER

SAMPLE RECEIVING 10100 EAST FREEWAY SUITE 100







FRI - 15 NOV 5:00P STANDARD OVERNIGHT

7799 6659 1216

**AB HBYA** 

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Page 22 of 22

# 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

13000 West County Road 100

Odessa TX, 79765 Project Manager: Kimble Thrash

EFF-1 (121024) 4L11009-01 (Air)

Project: SRS 2009-039

Project Number: SRS 2009-039

				4111009-	VI (III)				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian I	Basin Envi	onmental L	ab, L.P.			
PA 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-
1,1,2,2-Tetrachloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB
1,1,2-Trichlor-1,2,2-Trifluoroeth	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUE
ane									
1,1,2-Trichloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUE
1,1-Dichloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUE
1,1-Dichloroethene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUE
1,2,4-Trichlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUE
1,2-Dibromoethane (EDB)	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
1,2-Dichlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUE
1,2-Dichloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUE
1,2-Dichloropropane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUE
1,2-Dichlorotetrafluoroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
1,3-Butadiene	ND	0.0110	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
1,3-Dichlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
1,4-Dichlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
2-Butanone	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
4-Ethyltoluene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
Acetone	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
Benzene	ND	0.0100	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
Benzyl Chloride	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
Bromodichloromethane	0.149	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Bromoform	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
Bromomethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Carbon disulfide	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Carbon tetrachloride	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Chlorobenzene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Chloroethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	
Chloroform	ND ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
			ppm						SUI
Chloromethane	ND	0.0250		1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI
cis-1,2-Dichloroethene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
cis-1,3-Dichloropropene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Cyclohexane	0.728	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Dibromochloromethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Dichlorodifluoromethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Ethanol	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Ethyl Acetate	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Ethylbenzene	0.338	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SU
Isopropyl alcohol	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUI

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.

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)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian I	Basin Envi	ronmental L	ab, L.P.			
PA 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-
Methyl Butyl Ketone	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Methylene chloride	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
MIBK	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Methyl tert-butyl ether	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
n-Heptane	4.37	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
n-Hexane	0.358	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Xylene (o)	0.164	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Propylene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Styrene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Tetrachloroethene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Tetrahydrofuran	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Toluene	2.86	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
trans-1,2-Dichloroethylene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
trans-1,3-Dichloropropene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Trichloroethylene	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Trichlorofluoromethane	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Vinyl acetate	ND	0.0250	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-
Vinyl chloride	ND	0.0105	ppm	1	P4L2403	12/11/24 07:00	12/12/24 08:00	TO-15	SUB-

13000 West County Road 100

Project: SRS 2009-039 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.

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 Ct 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

	Dren	Darror			
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.



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Permian Basin Environmental Lab, LP Phone: 432-686-7235 ₫ 1400 Rankin HWY Midland, Texas 79701 Kimble Thrash **Project Manager:** Project Name: SRS 2009-039 Etech Environmental & Safety Solutions, Inc. Project #: SRS 2009-039 **Company Name:** P.O. Box 6228 **Company Address:** Project Loc: Lea County, NM Midland, TX 79711 City/State/Zip: PO #: Fax No: (432) 563-2213 Report Format: V Standard NPDES Telephone No: (432) 563-2200 TRRP Sampler Signature: e-mail: kimble@etechenv.com; shane@etechenv.com; camille.bryant@plains.com; karolanne.hudgens@plains.com lab use only) Analyze For: ORDER#: 4L11009 TCLP: 48, TOTAL Matrix Preservation & # of Containers AT (Pre-Schedule) lab use only) ning Depth Sampled Sampled Ending Depth Total #. of Na<sub>2</sub>S<sub>2</sub>O Time Other ( GW = G RUSH 1 Date H<sub>2</sub>SO<sub>4</sub> NаОН HNO # None 宁 Ω FIELD CODE 12/10/2024 1330 EFF-1 (121024) Air Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?

pecial Instructions: Please invoice directly to Plains A/P 333 Clay St., Houston, TX 77002 and reference the SRS number in the Project Name. Received by: elinguished by: Date Labels on container(s) Custody seals on container(s) Ν Custody seals on cooler(s) Received by: Sample Hand Delivered Date elinguished by: Time by Sampler/Client Rep. ? UPS FedEx Lone Star by Courier? DHL Date Temperature Upon Receipt: Relinguished by: Time Thermometor: NC Received: 20. 9:35 °C

7/29/2025 Released to Imaging:



#### 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					Mic	llan	id, T	еха	s 79	970	1			_	Projec	ct Na	ame	·		SUI	BC	ONT	RAC	т				_
	Company Name	PBEL														_	P	roje	ct#	·										_:
	Company Address:	1400 Rankin HWY														_	Pro	ject	Loc	·										
	City/State/Zip:	Midland Texas 79701														_		F	PO #	:										_
	Telephone No:	432-661-4184				Fax No:										_ R	Report	Fori	mat:	Х	Sta	ndar	ď		ТЕ	RRP		□ №	PDES	6
	Sampler Signature:	N/A				e-mail:		bre	ntba	rron	@pb	elal	o.con	1																
																		-	1		1	, 	Anal	yze F	or:	1	1 1		4	
ORDER:	#:							ĺ	Р	rese	rvatio	on &	# of C	ontair	iers	1	Matrix	4												
	1													1	_	+		1												
AB # (lab use only)			Seginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	otal #. of Containers		: 250 poly 1	HCI 3 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	 2	25 ml. amber boston rounds	DW=Drinking Water SL=Sludge	SW = Groundwater S=Soil/Solid												24 Hour Rush	DARD
LAB#	FI	IELD CODE	Begin	Endin	Date	Time	ield Fi	Fotal #	ICE	HNO <sub>3</sub>	HCI 3	H <sub>2</sub> SO,	NaOF	NONF	125 n	DW=Dri	GW = Gro	1	5										24 H	STAN
_	4L	.11009-01			12/10/2024	13:30		2						Х			AIR	Х	(											X
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Please a	dd tressa@pbelab.co	m to woa's.																			Cont						,	Υ	N	
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Relinqui Brent Ba	ished by: arron	12/11/2024	1/	':00	Received by:										Da	ate	'	ime	Cu	stody		s on	cont	ainer	(s)			Y	N	
	ished by:	Date	Ti	me	Received by:										Da	ate	1	ime	Saı	mple	y seal Hano Samp	d Deli	ivere	er(s) ed Rep. i	?		,	Y Y Y	N N N	
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		<u>.</u>	•														•		-								Pag	је 8	of 21	(

Total Number of Pages:

# **Laboratory Analysis Report**

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

Attn: Brent Barron

Client Address: 1400 Rankin Hwy
City, State, Zip: Midland, Texas, 79701

P.O.#.:

Sample Collected By:

Date Collected: 12/10/24

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

 Client Sample ID
 Matrix
 A&B Sample ID

 4L11009-01
 Air
 24121545.01

R. With

Analyst: Amit Bembde

Alla

Released By: Gobinath Rangasamy
Title: Project Manager
Date: 12/19/2024



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

Page 9 of 21

Date Received: 12/12/2024 11:00

Report Number: RPT24121

#### LABORATORY TEST RESULTS



Job ID: 24121545

Date: 12/19/2024

Attn: Brent Barron

Client Name: Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: Lab Sample ID: 4L11009-01 24121545.01

Date Collected: Sample Matrix: 12/10/24 Air 13:30

Time Collected: 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		(-)	,,	, ()	J,			, -
/. 10 10	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		< 0.0250		12/12/24
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	20CC		< 0.0250		12/12/24
	1,1,2-Trichloroethane	133.41	BRL	0.5	20CC		< 0.0250		12/12/24
	1,1-Dichloroethane	98.96	BRL	0.5	20CC		< 0.0250		12/12/24
	1,1-Dichloroethylene	96.94	BRL	0.5	20CC		< 0.0250		12/12/24
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	20CC		< 0.0250		12/12/24
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	20CC		< 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 <sup>2</sup>	58.08	BRL	0.5	20CC	< 59.4	< 0.0250		12/12/24
	Benzene	78.11	BRL	0.2	20CC		< 0.0100		12/12/24
	Benzyl chloride	126.59	BRL	0.5	20CC		< 0.0250		12/12/24
	Bromodichloromethane <sup>1</sup>	163.83	2.98	0.5	20CC		0.1490		12/12/24
	Bromoform	252.75	BRL	0.5	20CC		< 0.0250		12/12/24
	Bromomethane	94.94	BRL	0.5	20CC		< 0.0250		12/12/24
	Carbon disulfide <sup>2</sup>	76.14	BRL	0.5	20CC		< 0.0250		12/12/24
	Carbon tetrachloride	153.82	BRL	0.5	20CC		< 0.0250		12/12/24
	Chlorobenzene	112.56	BRL	0.5	20CC		< 0.0250		12/12/24
	Chloroethane	65.42	BRL	0.5	20CC		< 0.0250		12/12/24
i	Chloroform	119.38	BRL	0.5	20CC		< 0.0250		12/12/24
	Chloromethane	50.49	BRL	0.5	20CC		< 0.0250		12/12/24
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	20CC		< 0.0250		12/12/24
	cis-1,3-Dichloropropene	110.97	BRL	0.5	20CC		< 0.0250		12/12/24
	Cyclohexane	84.16	14.56	0.5	20CC		0.7280 I		12/12/24
	Dibromochloromethane <sup>2</sup>	208.29	BRL	0.5	20CC		< 0.0250		12/12/24
	Dichlorodifluoromethane	120	BRL	0.5	20CC		< 0.0250		12/12/24
	Ethanol <sup>2</sup>	46.07	BRL	0.5	20CC		< 0.0250		12/12/24
	Ethyl acetate <sup>2</sup>	88.11	BRL	0.5	20CC		< 0.0250		12/12/24
	Ethylbenzene	106.17	6.77	0.5	20CC		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

Attn: Brent Barron

24121545.01

Air

Lab Sample ID:

Sample Matrix:

Client Name : Permian Basin Environmental Lab, LP

Project Name: Subcontract

Client Sample ID: 4L11009-01

Date Collected: 12/10/24
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 b	y GCMS							
	Isopropyl Alcohol <sup>2</sup>	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	Е	12/12/24
	Methyl Butyl Ketone <sup>2</sup>	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	Е	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 <sup>2</sup>	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	Е	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 9.594

ab-q212-0321

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

est Method	Parameter/Test Description	CAS#	RT	MW	Reading(nI)**	ppm (v/v)	μg/m³	Analys
O-15	None							AVB
				I				1

<sup>\*</sup> TIC: Tentatively identified compounds.

Phone: 713-453-6060 www.ablabs.com

<sup>\*\*</sup>The values are estimated relative to the nearest internal standards and only major peaks are reported.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24121545.01$ 

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-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		1	0.5	
1,3-Dichlorobenzene	541-73-1	BRL	nL nL	1	0.5	
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5	
1,4-Dichlorobenzene	95-50-1	BRL				
•	95-50-1 120-82-1	BRL	nL	1	0.5	
1,2,4-Trichlorobenzene			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	

Refer to the Definition page for terms.



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24121545.01$ 

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 LCS										
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	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	



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

 $\textbf{Samples in This QC Batch} \ : \quad 24121545.01$ 

	_									
QC Type: LCS and LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qu
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	0.2	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	
п-першпе MIBK	5	3.98	79.6		4.19	83.8	5.1		67-130	
				5				30		
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	



Analysis: Volatile Organic Compounds in Air by GCMS Method: EPA TO-15 Reporting Units: nL

Samples in This QC Batch: 24121545.01

QC Type: LCS and LCS	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				
raiailietei	Spk Added	Result	70 NEC	Spk Added	Nesuit	70 NEC	KFD	CUILIIIII	CUILIIII	Quai				
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 Previous Weight colony-forming units Pre-Wt Conc. Concentration 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

LOQLimit of Quantitation adjusted for %M + DFsurrSurrogateMSMatrix SpikeTTime

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 : <b>24121545</b> Date Received : <b>12/12/2024</b> Time Received : <b>11:00A</b>									
Cli	ent Name : Permian Basin Enviror	nmental Lab, LP							
Tei	mperature : 21.0°C	Sample pH: NA							
The	ermometer ID : <b>IR7</b>	pH Paper ID: NA							
Pe	rservative :	Lot#:		1					
		Check Points	Yes	No	N/A				
1.	. Cooler Seal present and signed.								
2.	Sample(s) in a cooler.		Х						
3.	If yes, ice in cooler.			Х					
4.	Sample(s) received with chain-of-custody.								
5.	C-O-C signed and dated.								
6.	. Sample(s) received with signed sample custody seal.								
7.	7. Sample containers arrived intact. (If No comment)								
8.	Water Soil Liquid SI	udge Solid Cassette Tube Bulk Badge Food Other							
9.	Samples were received in appropriate	container(s)	Х						
10.	0. Sample(s) were received with Proper preservative								
11.	11. All samples were tagged or labeled.								
12.	12. Sample ID labels match C-O-C ID's.								
13.	3. Bottle count on C-O-C matches bottles found.								
14.	4. Sample volume is sufficient for analyses requested.								
15.	5. Samples were received with in the hold time.								
16.	VOA vials completely filled.				Х				
17.	Sample accepted.		Х						
18.	Has client been contacted about sub-o	ut			Х				
	mments : Include actions taken to reso er=Air (Clear Tedlar Bags). AM 12/12/24	lve discrepancies/problem:							
_ •	(2.22 22.2. 2030)								

Brought by  $\;:\;\;$  FedEx

Received by: MClotfelter Check in by/date: Amber / 12/12/2024

ab-s005-1123

Phone: 713-453-6060 www.ablabs.com

Page 19 of 21



# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP 1400 Rankin HWY

Phone: 432-686-7235 PBELAB\_SUB\_COC\_V2

	Project Manager:	Brent Barron					Mį ₄	idla	nd,	Tex	kas 7	970	1				Ргоје	ct N	ame	:		SUB	CON	ITR/	ACT				)CD:
	Company Name	PBEL														_		Эгој:	ect#	:									//14
	Company Address	: 1400 Rankin HWY					į									_													14/2025
	City/State/Zip:	Midland Texas 79701	nd Texas 79701							1																		1:39	
	Telephone No:	432-661-4184				Fax No:				-			_			– Re	port				Stan	idard	••		TRRE		<u> </u>	NPDF	ES N
	Sampler Signature	: <u>N/A</u>				· e-mail:		bre	entba	atto	n@pl	belab	.com			_	•										L., '	" "	
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ORDER	ene en roller og skalle skilden og de skilden sk #: Skilden og skilden									Pres	ervatio	on & a	# of Co	ontair	ers	ΤΛ	/latrix												
LAB # (lab use only)	FI	ELD CODE 11009-01	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered **	7 Total #. of Containers	ICE	HNO <sub>3 250 poly 1</sub>	AC		Na.S.O.		125 ml. amber boston rounds	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	TO-16										24 Laur Buch	STANDARD
OLAPS			<u> </u>		1171072024	13.30		-	╂─		$\vdash$		- -	<del> ^</del>	+-	┝	AIR	<del> </del> X	4			_	-	$\dashv$		┼		+	X
	Job ID:24	121545					***					,																	
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					3		Page	12	of 13										(D	#2	307	92	860	)	F	Page	20	of 21	

ORKGIN ID:MAFA RESSA BLEDSOE (432) 686-723

RESSA BLEDSUE: ERMIAN BASIN ENVIRONMENTAL LAB, LP.

MIDLAND, TX 79701

SHIP DATE: 11DEC24 ACTWGT: 2.00 LB CAD: 107136846/INET453 DIMS: 132929 IN

BILL SENDER .

O SAMPLE RECEIVING

A & B ENVIRONMENTAL SERVICES

10100 EAST FREEWAY SUITE 100

HOUSTON TX 77029`

(713) 453-606 INV:



Fed Express

THU - 12 DEC 5:00P STANDARD OVERNIGHT

TRK# 0201

7706 8444 9853

77029

<sub>TX-US</sub> IAI





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:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	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