2023 Annual Groundwater Monitoring Report

REVIEWED

By Mike Buchanan at 2:45 pm, Jul 03, 2024

Plains All American Pipeline, LP Livingston Line - Bob McCasland

Lea County, New Mexico Unit Letter "K", Section 3, Township 21 South, Range 37 East Latitude 32.504135 North, Longitude 103.151345 West Plains SRS #: 2001-11226 NMOCD Reference #: 1RP-0395

NMOCD Incident ID #: nAPP2109736613

Review of the 2023 Annual Groundwater Monitoring Report: Content Satisfactory 1. Gauge and conduct quarterly sampling events for wells: MW-2. MW-3, MW-5 and

MW-6 for BTEX. 2. On an annual basis, conduct sampling & gauging for MW-7, MW-8, MW-10, and MW-11 as prescribed. Conduct AFR events to prevent the downgradient migration of dissolved phase/freephase plume

annual report to OCD by April 1, 2025. Ben J. Arguijo

4. Submit the 2024

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave., Ste. D Lubbock, TX 79413



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TABLE OF CONTENTS

1
2
2
2
3
3
5
6
6
7

FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – 1Q2023 Figure 2B – Inferred Groundwater Gradient Map – 2Q2023 Figure 2C – Inferred Groundwater Gradient Map – 3Q2023 Figure 2D – Inferred Groundwater Gradient Map – 4Q2023 Figure 3A – Groundwater Concentration Map – 1Q2023 Figure 3B – Groundwater Concentration Map – 2Q2023 Figure 3C – Groundwater Concentration Map – 3Q2023

Figure 3D – Groundwater Concentration Map – 4Q2023

TABLES

- Table 1 Groundwater Elevation & PSH Thickness Summary
- Table 2 Groundwater BTEX Concentration Analytical Summary
- Table 3 MW-4 PSH/BTEX Impacted Groundwater Recovery Summary
- Table 4 MW-5 BTEX Impacted Groundwater Recovery Summary
- Table 5 Concentrations of PAH in Groundwater Summary

APPENDICES

Appendix A – Laboratory Analytical Reports

1.0 INTRODUCTION & SITE DESCRIPTION

Etech Environmental & Safety Solutions (Etech), on behalf of Plains All American Pipeline, LP (Plains), has prepared this 2023 Annual Groundwater Monitoring Report for the Livingston Line to Bob McCasland Pipeline 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 1st of each year.

The legal description of the Livingston Line to Bob McCasland Pipeline Release Site is Unit Letter "K" (NE/SW), Section 3, Township 21 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by Mr. Bob McCasland. The geographic coordinates of the Release Site are 32.504135° North latitude and 103.151345° West longitude. A "Site Location Map" is provided as Figure 1.

2.0 BACKGROUND INFORMATION

Based on information provided by the client, on July 13, 2001, an estimated release of four (4) barrels (bbls) of crude oil was reported to the NMOCD. The release covered an area of approximately 1,600 square feet (ft²) along a pipeline right-of-way and an adjacent caliche road. Initial excavation activities were conducted by a third-party environmental contractor in an effort to stockpile saturated soils and expose the release source to facilitate repair of the pipeline. The pipeline excavation activities continued into December 2001. A total of approximately 11,445 cubic yards (yd³) of hydrocarbon-impacted soil were excavated and stockpiled at the Site. Earthen berms were constructed around the stockpiles to prevent constituent runoff. Analytical results for soil samples collected from the excavation indicated benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations were above NMOCD remedial threshold limits. A *Soil Characterization Report and Remediation Plan Report*, dated June 2006, was submitted to the NMOCD. This report detailed remediation activities conducted at the Site, in-place soil concentrations, and recommendations for in-situ hydrocarbon-impacted soil closure.

Investigation activities were conducted from August 16 through 22, 2001, which included the advancement of 17 exploratory soil borings. During this time, it was determined groundwater had been impacted at approximately 30 feet below ground surface (bgs). Based on these field observations, three (3) groundwater monitor wells (MW-1, MW-2, and MW-3) were installed proximate to the release area to evaluate the extent and magnitude of the Release. Groundwater samples collected from the groundwater monitor wells exhibited concentrations of BTEX constituents above applicable New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards. Subsequently, three (3) additional monitor wells (MW-4, MW-5, and MW-6) were installed at the Site. A measurable thickness of phase-separated hydrocarbons (PSH) was detected in monitor well MW-4 following installation.

To delineate the lateral extent of groundwater impact at the Site, three (3) additional monitor wells (MW-7, MW-8 and MW-9) were installed in June 2004. Two (2) additional monitor wells (MW-10 and MW-11) were installed in November 2004. During installation of these monitor wells, soil samples were collected and submitted to AnalySys, Inc., in Austin, Texas, for analysis of total petroleum hydrocarbons (TPH) and BTEX constituents. BTEX constituents for all soil samples

from the monitor wells were below NMOCD remedial threshold limits. TPH concentrations from soil samples collected from monitor wells MW-7, MW-10, and MW-11 were at or below appropriate laboratory analytical method detection limits (MDLs).

In February 2023, Etech, at the request of Plains, assumed project management and oversight responsibilities for groundwater remediation activities at the Livingston Line to Bob McCasland Pipeline Release project Site.

Currently, there are a total of 11 monitor wells (MW-1 through MW-11) on-site. Monitor wells MW-2, MW-3, MW-5, and MW-6 are gauged and sampled on a quarterly schedule. Monitor wells MW-7, MW-8, MW-10, and MW-11 are gauged and sampled on an annual basis. Monitor well MW-1 is not sampled as it has been gauged as "dry". Monitor well MW-4 is currently not sampled due to the presence of PSH. Monitor well MW-9 has insufficient volume and recharge to sample.

3.0 FIELD ACTIVITIES

3.1 Product Recovery

A measurable thickness of PSH was detected in monitor well MW-4 following installation. Manual recovery of PSH and hydrocarbon-impacted groundwater from MW-4 commenced in 2018. Approximately 30.0 gallons of hydrocarbon-impacted groundwater and 3.16 gallons of PSH were recovered from MW-4 during the 2023 reporting period. A total of approximately 240 gallons (5.71 barrels) of PSH have been recovered since 2018. The average PSH thickness measured in monitor well MW-4 was 2.61 feet during the reporting period. Groundwater gauging and PSH recovery data for monitor well MW-4 is summarized in Table 3.

All recovered fluids were disposed of at an NMOCD-approved disposal facility.

3.2 Groundwater Recovery

Manual recovery of dissolved-phase hydrocarbon impacted groundwater from monitor well MW-5 commenced in May 2019. Approximately 23.4 gallons of impacted groundwater were recovered from monitor well MW-5 during the 2023 reporting period. Approximately 185 gallons (4.40 bbls) of impacted groundwater have been recovered since 2019. Groundwater gauging and recovery data for monitor well MW-5 is summarized in Table 4.

An Aggressive Fluid Recovery (AFR) event was conducted on monitor well MW-4 in August 2023. During the AFR event, a submersible pump was utilized to conduct a prolonged recovery event consisting of approximately 3-5 hours of pumping. A total of approximately 250 gallons (5.95 bbls) of hydrocarbon-impacted groundwater were recovered from the monitor well during the event. The total volume of PSH recovered during the event was unable to be accurately determined. The recovered fluid was transferred to a polystyrene aboveground storage tank (AST) at a Plains groundwater remediation site nearby, pending transport to an NMOCD-approved disposal facility.

All recovered fluids were ultimately disposed of at an NMOCD-approved disposal facility.

3.3 Groundwater Monitoring

The on-site monitor wells were gauged and sampled on March 27 (1Q2023), June 28 (2Q2023), September 20 (3Q2023), and December 20, 2023 (4Q2023). The groundwater monitoring events consisted of measuring static water levels in the on-site monitor wells (MW-1 through MW-11), checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Purged water was 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 2023 quarterly sampling events, are depicted in Figures 2A through 2D. The maps indicate an average groundwater gradient of approximately 0.004 feet/foot to the east-southeast across the Site. Groundwater elevation and PSH thickness data are 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 and annual 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 gauged dry and was not able to be sampled during the reporting period.

Monitor Well MW-2

Laboratory analytical results indicated benzene concentrations ranged from less than the laboratory MDL in 1Q2023, 2Q2023, and 3Q2023 to 0.000680 mg/L in 4Q2023. Toluene and ethylbenzene concentrations were less than the appropriate laboratory MDL in each of the submitted

groundwater samples. Total xylene concentrations ranged from less than the laboratory MDL in 1Q2023, 2Q2023, and 3Q2023 to 0.00274 mg/L in 4Q2023.

BTEX constituent concentrations were less than NMOCD regulatory standards in each of the submitted groundwater samples.

Monitor Well MW-3

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

Monitor Well MW-4

Monitor well MW-4 was not sampled during the reporting period due to the presence of PSH.

Monitor Well MW-5

Laboratory analytical results indicated benzene concentrations ranged from less than the laboratory MDL in 2Q2023, 3Q2023, and 4Q2023 to 0.00107 mg/L in 1Q2023. Toluene concentrations ranged from less than the laboratory MDL in 2Q2023, 3Q2023, and 4Q2023 to 0.00119 mg/L in 1Q2023. Ethylbenzene concentrations ranged from less than the laboratory MDL in 2Q2023, 3Q2023, and 4Q2023 to 0.00202 mg/L in 1Q2023. Total xylene concentrations were less than the laboratory MDL in each of the submitted groundwater samples.

BTEX constituent concentrations were less than NMOCD regulatory standards in each of the submitted groundwater samples.

Monitor Well MW-6

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

Monitor Well MW-7

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

Monitor Well MW-8

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

Monitor Well MW-9

Monitor well MW-9 exhibited insufficient well volume/recharge and was not able to be sampled during the reporting period.

Monitor Well MW-10

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

Monitor Well MW-11

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

5.0 **SUMMARY**

This report presents the results of groundwater monitoring activities for the 2023 annual monitoring period. Currently, there are 11 groundwater monitor wells (MW-1 through MW-11) on-site. Monitor wells MW-2, MW-3, MW-5, and MW-6 were gauged and sampled during all four (4) quarters of the monitoring period. Monitor wells MW-7, MW-8, MW-10, and MW-11 are on an annual sampling schedule and were sampled during 1Q2023. The results of these sampling events are summarized above. Monitor well MW-1 gauged dry and was not able to be sampled during the reporting period. Monitor well MW-4 was not sampled due to the presence of PSH. Monitor well MW-9 exhibited insufficient well volume/recharge throughout the reporting period and was not able to be sampled.

Groundwater gauging data collected during the monitoring period indicates an average groundwater gradient of approximately 0.004 feet/foot to the east-southeast across the Site.

During the reporting period, approximately 30.0 gallons of hydrocarbon-impacted groundwater and 3.16 gallons of PSH were recovered by manual recovery from monitor well MW-4. A total of approximately 240 gallons (5.71 barrels) of PSH have been recovered since recovery commenced in 2018. The average PSH thickness measured in monitor well MW-4 was 2.61 feet.

Approximately 23.4 gallons of dissolved-phase hydrocarbon-impacted groundwater were recovered from monitor well MW-5 during the 2023 reporting period. Approximately 185 gallons (4.40 bbls) of impacted groundwater have been recovered since recovery commenced in 2019.

An Aggressive Fluid Recovery (AFR) event was conducted on monitor well MW-4 in August 2023. Approximately 250 gallons (5.95 bbls) of hydrocarbon-impacted groundwater were recovered from the monitor well during the event.

Review of laboratory analytical results from groundwater samples collected during the reporting period indicated BTEX constituent concentrations 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.

6.0 ANTICIPATED ACTIONS

Monitor wells MW-2, MW-3, MW-5, and MW-6 will continue to be gauged and sampled quarterly for BTEX. Monitor wells MW-7, MW-8, MW-10, and MW-11 will continue to be gauged and sampled on an annual basis. Monitor well MW-9 will be gauged on a quarterly basis and sampled if the monitor well exhibits sufficient volume/recharge.

In lieu of manual recovery, monthly AFR events will be conducted from monitor wells MW-4 and MW-5 in an effort to control the down-gradient migration of the dissolved-phase and free-phase plumes.

Results of the 2024 sampling and recovery events will be reported in the 2024 Annual Monitoring Report, which will be submitted to the NMOCD by April 1, 2025.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this 2023 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

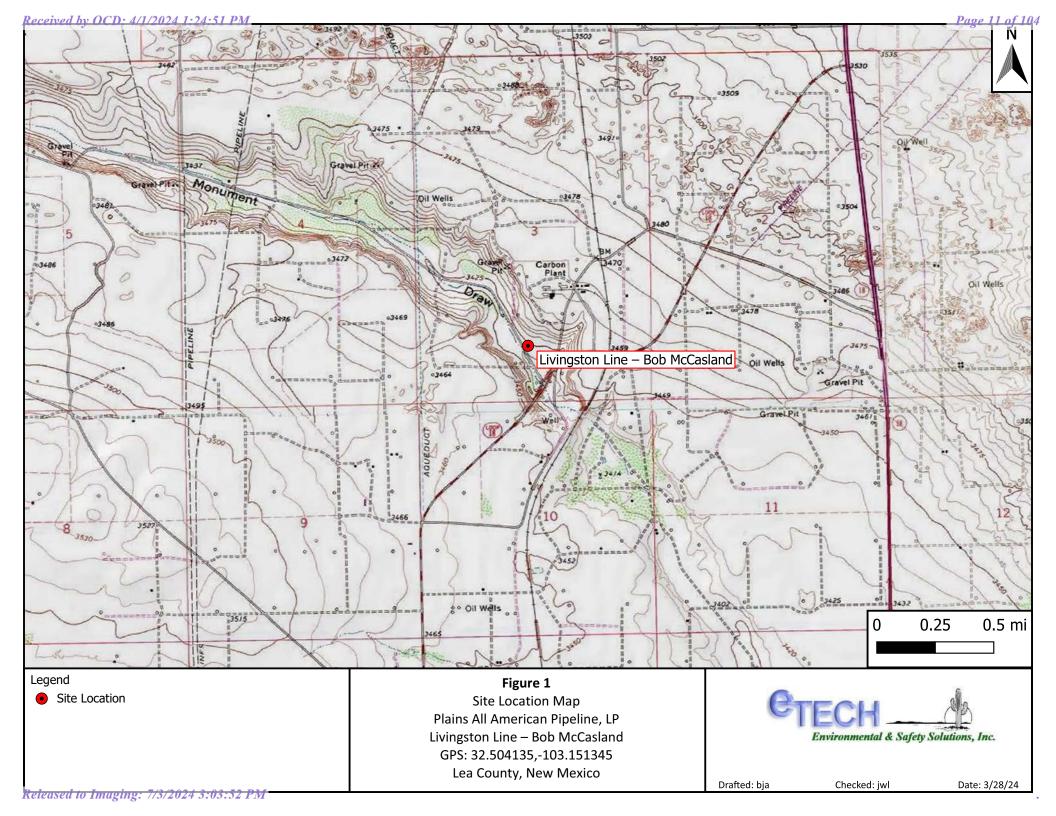
Nelson Velez Environmental Specialist - Advanced New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

Jeff Dann

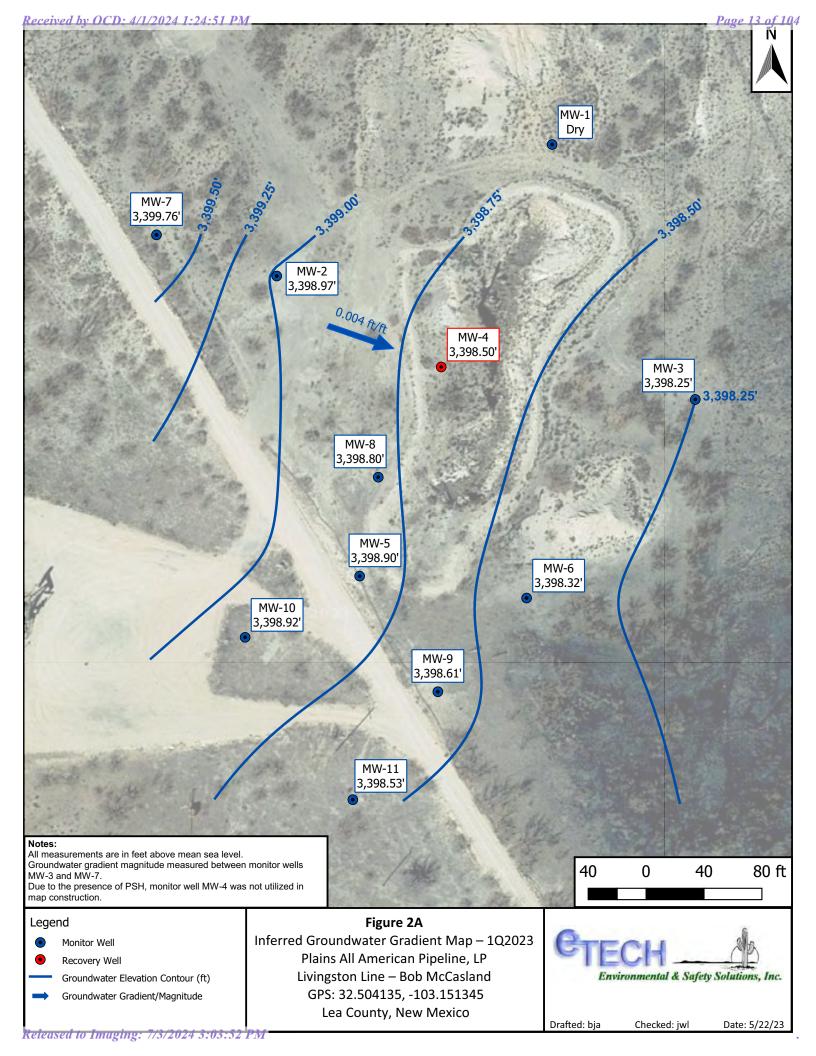
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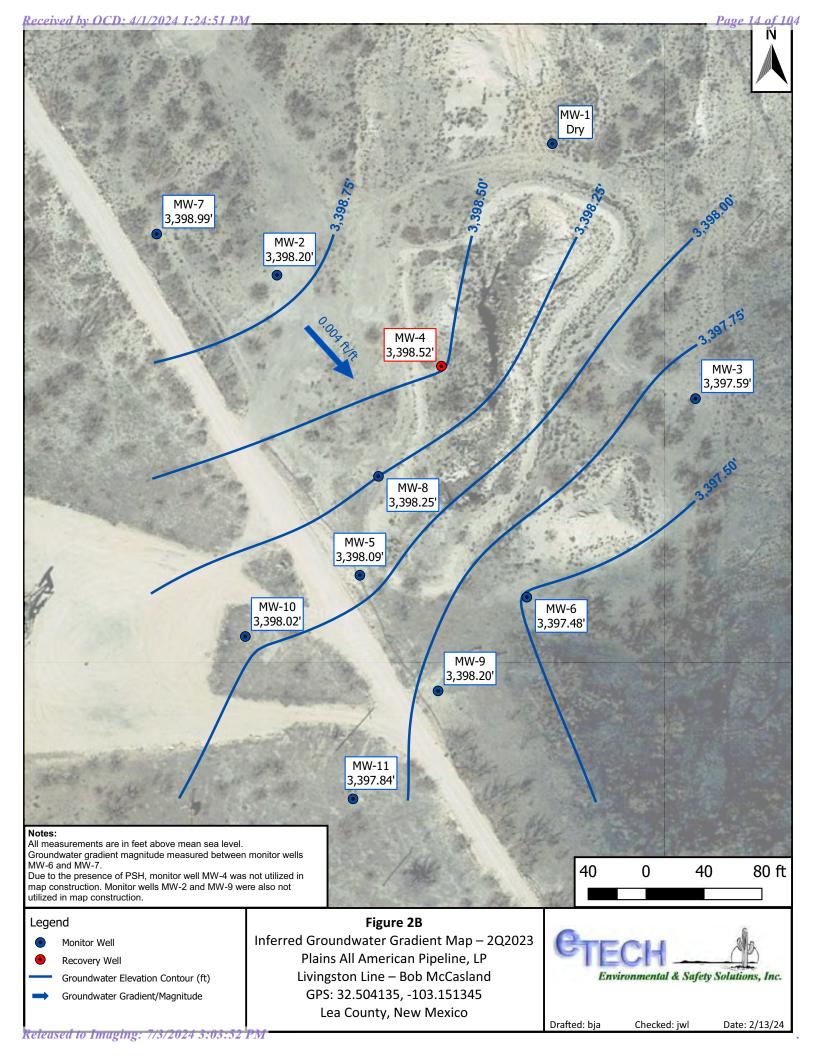
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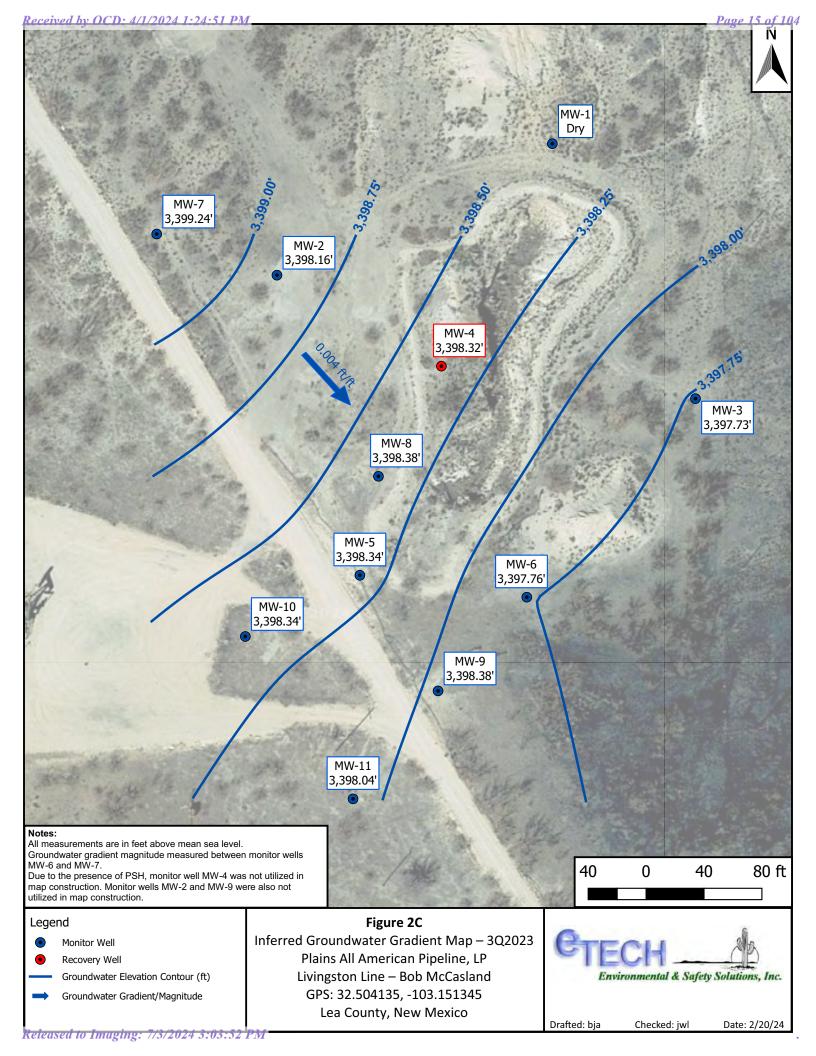
Figure 1 Site Location Map

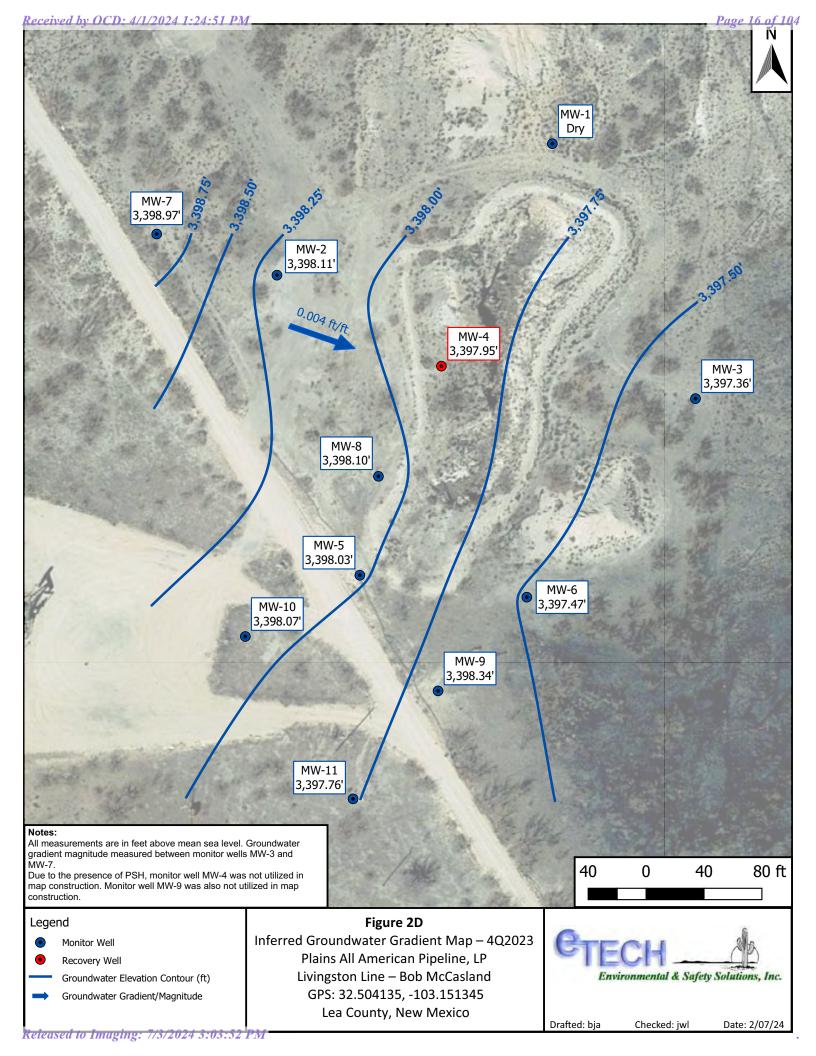


Figures 2A - 2D Inferred Groundwater Gradient Maps

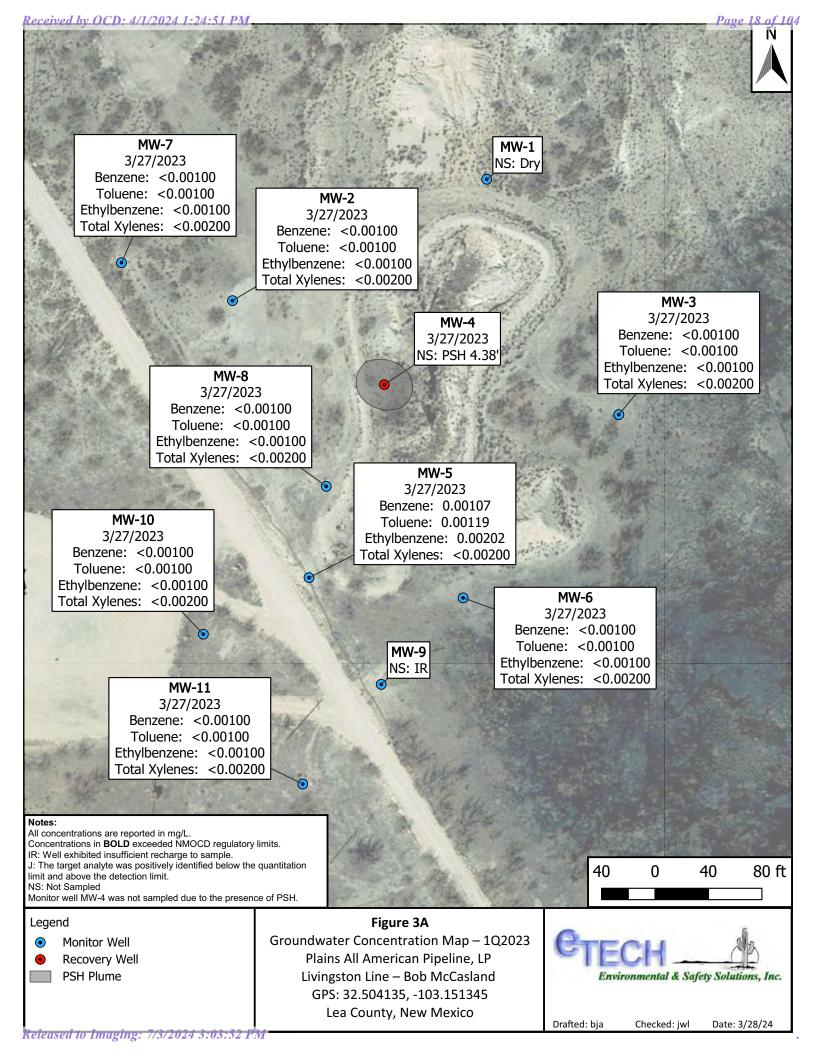


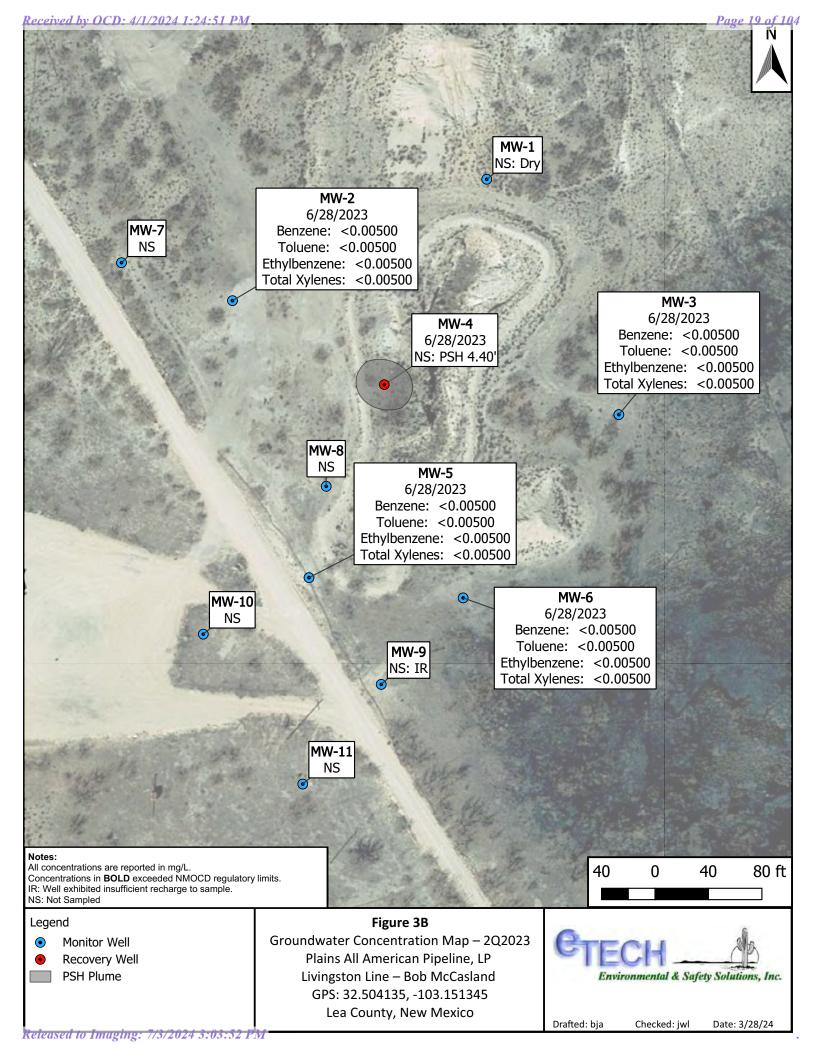


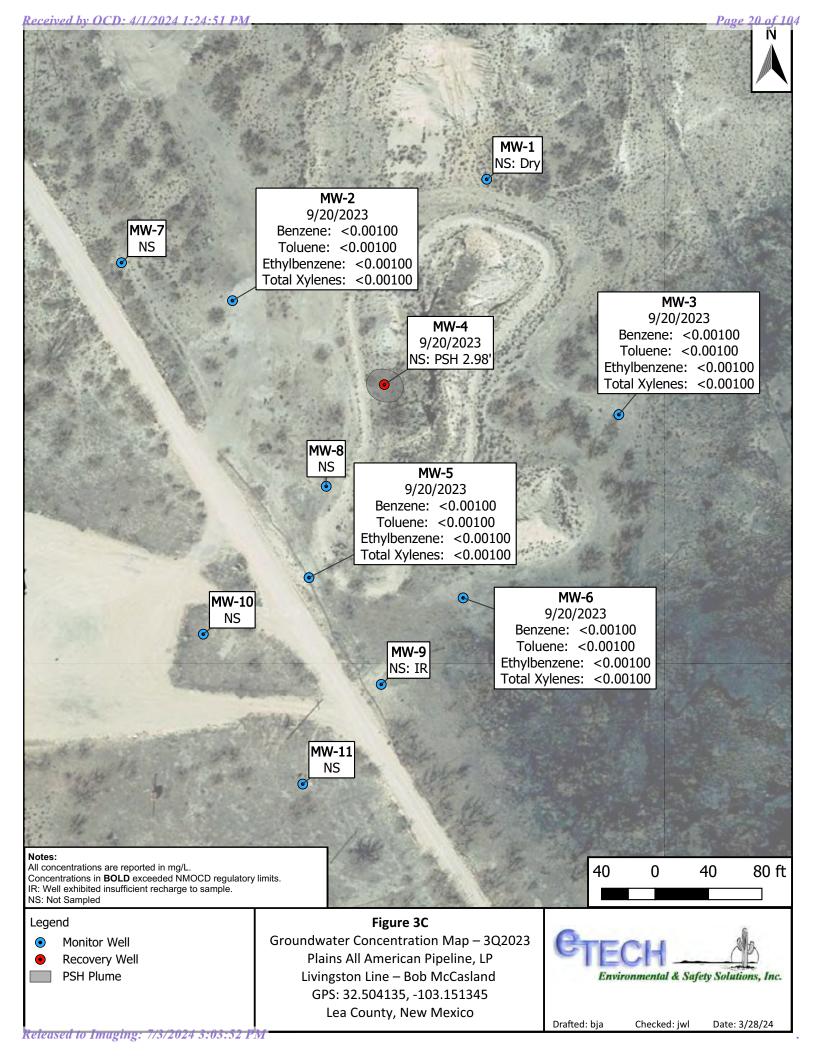


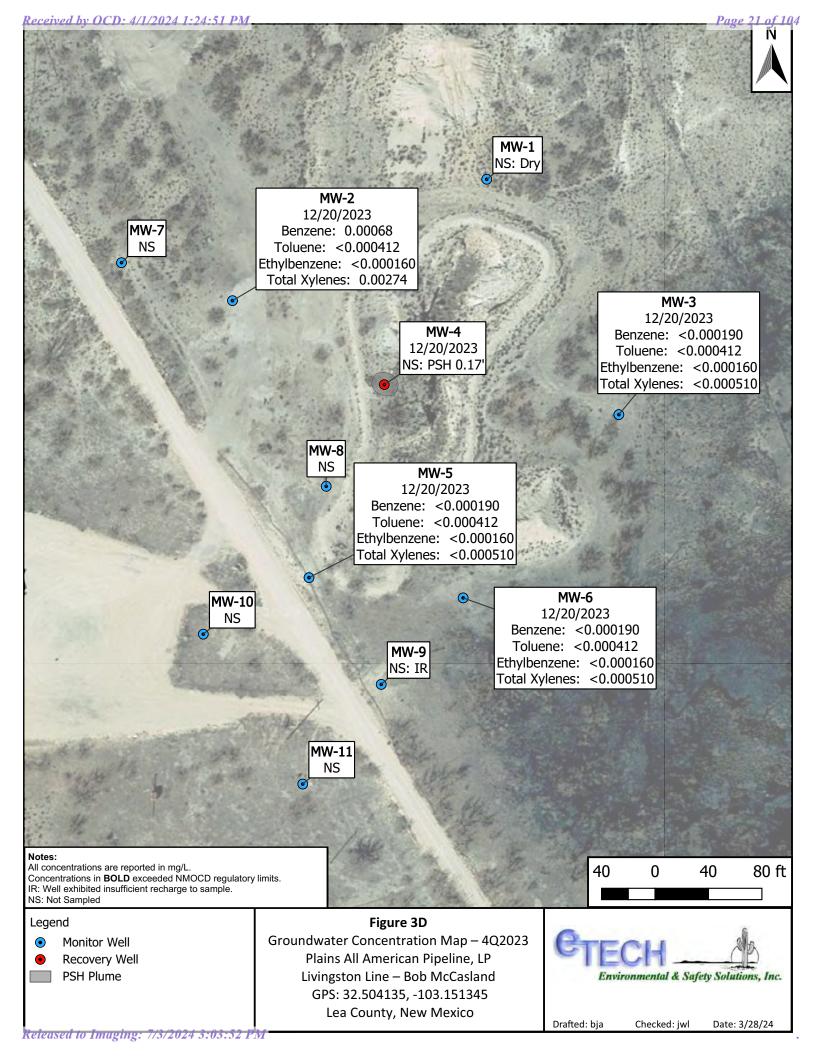


Figures 3A - 3D Groundwater Concentration Maps









Tables 1 - 5

Table 1 Groundwater Elevation & PSH¹ Thickness Summary

Livingston Line - Bob McCasland Pipeline Leak Lea County, New Mexico Plains SRS #: 2001-11226 Etech Project #: 17475 NMOCD² Incident #: nAPP2109736613

All elevation measurements are in feet above mean sea level

	ii cicvation m			t above mear	i sca icvei	
		Top of	Depth to	Depth to	PSH	Corrected
Monitoring Well	Date	Casing	PSH Below	Water Below	Thickness	Groundwater
(Well Diameter ")	Gauged	(TOC) ³	TOC	TOC	(feet)	Elevation**
		Elevation*	(feet)	(feet)	(1001)	
	03/15/22					
	06/09/22					
	09/27/22					
1 4 4 (OII)	02/21/23	0 400 00		-	D) (
MW-1 (2")	03/27/23	2,439.09		D	RY	
	06/28/23					
	09/20/23					
	12/20/23					
	12/20/20					
	03/15/22	I	_	33.04	_	3,399.58
	06/09/22			33.71		3,398.91
			-		-	
	09/27/22		-	34.43	-	3,398.19
MW-2 (2")	02/21/23	3,432.62	-	33.61	-	3,399.01
l ` ´	03/27/23	1	-	33.65	-	3,398.97
	06/28/23		-	34.42	-	3,398.20
	09/20/23		-	34.47	-	3,398.16
	12/20/23		-	34.51		3,398.11
	03/15/22		-	34.74	-	3,398.87
	06/09/22		-	35.25	-	3,398.36
	09/27/22		-	36.00	-	3,397.61
MANA (2 (2!!)	02/21/23	2 422 64	-	35.47	-	3,398.14
MW-3 (2")	03/24/23	3,433.61	-	35.36	-	3,398.25
	06/28/23		-	36.02	-	3,397.59
	09/20/23		-	35.88	-	3,397.73
	12/20/23		-	36.25	-	3,397.36
	12/20/20	l .		00.20		0,007.00
	03/15/22		32.57	35.49	2.92	3,399.24
	04/27/22		32.6	35.98	3.38	3,399.14
	09/27/22		33.86	37.08	3.22	3,397.91
	02/21/23		33.11	37.36	4.25	3,398.50
MW-4 (2")	03/27/23	3,432.25	33.09	37.47	4.38	3,398.50
	06/28/23		33.09	37.47	4.40	
		ł				3,398.52
	09/20/23	1	33.48	36.46	2.98	3,398.32
	12/20/23	<u> </u>	34.27	34.44	0.17	3,397.95
	00/45/00	T		00.11		0.000.40
	03/15/22		-	30.14	-	3,399.49
	06/09/22		-	30.80	-	3,398.83
	09/27/22		-	31.49	-	3,398.14
MW-5 (2")	02/21/23	3,429.63	-	30.78	-	3,398.85
(2)	03/27/23	0,120.00	-	30.73	-	3,398.90
	06/28/23]	-	31.54	-	3,398.09
	09/20/23		-	31.29	-	3,398.34
	12/20/23		-	31.60	-	3,398.03
	03/15/22		-	30.38	-	3,398.92
	06/09/22	Ī	-	30.99	-	3,398.31
	09/27/22	1	-	31.71	-	3,397.59
1010000	02/21/23	0.400.00	_	30.94	_	3,398.36
MW-6 (2")	03/27/23	3,429.30	_	30.98	_	3,398.32
	06/28/23	1	_	31.82		3,397.48
	09/20/23	1	-	31.54	-	3,397.76
	12/20/23	1		31.83		3,397.47
	12/20/23		-	31.03		3,381.41
Notes:						

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 monitoring well.

Table 1 Groundwater Elevation & PSH¹ Thickness Summary

Livingston Line - Bob McCasland Pipeline Leak Lea County, New Mexico Plains SRS #: 2001-11226 Etech Project #: 17475 NMOCD² Incident #: nAPP2109736613

All elevation measurements are in feet above mean sea level

		Top of	Depth to	Depth to		
Monitoring Well	Date	Casing	PSH Below	Water Below	PSH	Corrected
(Well Diameter ")	Gauged	(TOC) ³	TOC	TOC	Thickness	Groundwater
(Well Blameter)	Caagea	Elevation*	(feet)	(feet)	(feet)	Elevation**
	03/15/22		-	30.93	-	3,400.44
	09/27/22		_	32.38	-	3.398.99
	03/27/23		-	31.61	-	3.399.76
MW-7 (2")	06/28/23	3,431.37	_	32.38	-	3,398.99
	09/20/23		_	32.13	_	3,399.24
	12/20/23		_	32.40	_	3,398.97
	12/20/20			02.10		0,000.01
	03/15/22		-	31.50	-	3,399.57
	09/27/22		-	32.85	-	3,398.22
MANA (O (4")	03/27/23	2 424 07	-	32.27	-	3,398.80
MW-8 (4")	06/28/23	3,431.07	-	32.82	-	3,398.25
	09/20/23		-	32.69	-	3,398.38
	12/20/23		-	32.97	-	3,398.10
	03/15/22		-	30.55	-	3,399.24
	09/27/22		-	31.48	-	3,398.31
MW-9 (2")	03/27/23	3,429.79	-	31.18	-	3,398.61
10100-9 (2)	06/28/23	3,429.79	-	31.59	-	3,398.20
	09/20/23		-	31.41	-	3,398.38
	12/20/23		-	31.45	-	3,398.34
	03/15/22		-	29.98	-	3,399.51
	09/27/22		-	31.34	-	3,398.15
MW-10 (2")	03/27/23	3.429.49	-	30.57	1	3,398.92
10100-10 (2)	06/28/23	3,423.43	-	31.47	-	3,398.02
	09/20/23		-	31.15	-	3,398.34
	12/20/23		-	31.42	1	3,398.07
	03/15/22		-	29.13	-	3,399.19
	09/27/22		-	30.46	-	3,397.86
MW-11 (2")	03/27/23	3,428.32	-	29.79	-	3,398.53
······ · · · (2)	06/28/23	0,120.02	-	30.48	-	3,397.84
	09/20/23		-	30.28	-	3,398.04
	12/20/23		-	30.56	-	3,397.76

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.

 $^{^{\}star\star}$ Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the monitoring well.

Table 2 **Groundwater BTEX¹ Concentration Analytical Summary**

Livingston Line - Bob McCasland Pipeline Leak Lea County, New Mexico Plains SRS #: 2001-11226 Etech Project #: 17475 NMOCD² Incident ID#: nAPP2109736613

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

		All concentrations are in milligrams per liter (mg/L) EPA SW846-8021B										
Monitoring	Date				M.P-	0-	Total	Total				
Well	Sampled	Benzene	Toluene	Ethylbenzene	Xylenes	Xylenes	Xylenes	BTEX				
NMOCD RRA	AL CRITERIA ³	0.01	0.75	0.75	TOT	TAL XYLENES	0.62	NE ⁴				
	03/15/2022											
	06/09/2022											
	09/27/2022											
MW-1	02/17/2023			Drv	- Not Sampled							
	03/27/2023			,								
	06/28/2023											
	09/20/2023											
	12/20/2023											
	02/45/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657				
	03/15/2022 06/09/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657				
	09/27/2022	<0.000533	<0.000307	<0.000411	<0.00124	<0.000551	<0.00042	<0.00124				
	02/17/2023	<0.000333	<0.000367	<0.000411	<0.00124	<0.000331	<0.00124	<0.00124				
MW-2	03/27/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200				
2	06/28/2023	<0.00500	<0.00500	<0.00100	<0.0100	<0.00100	<0.00500	<0.00200				
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100				
	12/20/2023	0.000680	<0.000412	<0.00160	-	-	0.00274	0.00342				
	DUP-1	0.000845	<0.000412	<0.000160	-	-	<0.000510	0.000845				
						I.						
	03/15/2022	<0.000408	0.000401 J	< 0.000657	<0.000629	< 0.000642	<0.000642	< 0.000657				
	06/09/2022	<0.000408	< 0.000367	< 0.000657	<0.000629	<0.000642	<0.000642	< 0.000657				
	09/27/2022	< 0.000533	< 0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124				
MW-3	02/17/2023	<0.000408	< 0.000367	< 0.000657	<0.000629	< 0.000642	< 0.000642	< 0.000657				
IVIVV-3	03/27/2023	<0.00100	< 0.00100	<0.00100	<0.00200	< 0.00100	< 0.00200	<0.00200				
	06/28/2023	< 0.00500	< 0.00500	< 0.00500	<0.0100	< 0.00500	< 0.00500	< 0.00500				
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100				
	12/20/2023	<0.000190	<0.000412	<0.000160	-	-	<0.000510	<0.000510				
	03/15/2022											
	03/15/2022 06/09/2022											
MW.4	06/09/2022		Not Sample	d Due to the present	on of Phase Son	paratod Hydroca	rhone (PSH)					
MW-4	06/09/2022 09/27/2022		Not Sample	d Due to the present	ce of Phase Sep	arated Hydroca	rbons (PSH)					
MW-4	06/09/2022 09/27/2022 02/17/2023		Not Sample	d Due to the presend	ce of Phase Sep	parated Hydroca	rbons (PSH)					
MW-4	06/09/2022 09/27/2022 02/17/2023 03/27/2023		Not Sampled	d Due to the presend	ce of Phase Sep	parated Hydroca	rbons (PSH)					
MW-4	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023		Not Sampled	d Due to the presend	ce of Phase Sep	arated Hydroca	rbons (PSH)					
MW-4	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023		Not Sampled	d Due to the presend	ce of Phase Sep	arated Hydroca	rbons (PSH)					
MW-4	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023	<0.000408	0.000459 J	0.000700 J	<0.000629	<0.000642	<0.000642	0.00116 J				
MW-4	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 DUP-1	<0.000408	0.000459 J 0.000433 J	0.000700 J 0.000673 J	<0.000629 <0.000629	<0.000642 <0.000642	<0.000642 <0.000642	0.00111 J				
MW-4	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023	<0.000408 0.000596J	0.000459 J 0.000433 J <0.000367	0.000700 J 0.000673 J <0.000657	<0.000629 <0.000629 <0.000629	<0.000642 <0.000642 <0.000642	<0.000642 <0.000642 <0.000642	0.00111 J <0.000657				
MW-4	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 DUP-1	<0.000408 0.000596J <0.000533	0.000459 J 0.000433 J <0.000367 <0.000475	0.000700 J 0.000673 J <0.000657 <0.000411	<0.000629 <0.000629 <0.000629 <0.00124	<0.000642 <0.000642 <0.000642 <0.000551	<0.000642 <0.000642 <0.000642 <0.00124	0.00111 J <0.000657 <0.00124				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 DUP-1 06/09/2022 09/27/2022 DUP-1	<0.000408 0.000596J <0.000533 <0.000533	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124	<0.000642 <0.000642 <0.000642 <0.000551 <0.000551	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124	0.00111 J <0.000657 <0.00124 <0.00124				
MW-4	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 DUP-1 06/09/2022 09/27/2022	<0.000408 0.000596J <0.000533 <0.000533 <0.000408	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475 <0.000367	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.000804J	<0.000642 <0.000642 <0.000642 <0.000551 <0.000551 <0.000642	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.000804J	0.00111 J <0.000657 <0.00124 <0.00124 0.00158J				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 DUP-1 06/09/2022 09/27/2022 DUP-1 02/17/2023 03/27/2023	<0.000408 0.000596J <0.000533 <0.000533 <0.000408 0.00107	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475 <0.000367 0.00119	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000410 0.000780J 0.00202	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.000804J <0.00200	<0.000642 <0.000642 <0.000642 <0.000551 <0.000551 <0.000642 <0.00100	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.000804J <0.00200	0.00111 J <0.000657 <0.00124 <0.00124 0.00158J 0.00428				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 DUP-1 06/09/2022 09/27/2022 DUP-1 02/17/2023	<0.000408 0.000596J <0.000533 <0.000533 <0.000408 0.00107 <0.00500	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475 <0.000367 0.00119 <0.00500	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 <0.000804J <0.00200 <0.0100	<0.000642 <0.000642 <0.000542 <0.000551 <0.000642 <0.00100 <0.00100 <0.00500	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.000804J <0.00200 <0.00500	0.00111 J <0.000657 <0.00124 <0.00124 0.00158J 0.00428 <0.00500				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 DUP-1 06/09/2022 09/27/2022 DUP-1 02/17/2023 03/27/2023 06/28/2023 09/20/2023	<pre><0.000408 0.000596J <0.000533 <0.000533 <0.000408 0.00107 <0.00500 <0.00100</pre>	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475 <0.000367 0.00119 <0.00500 <0.00100	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500 <0.00100	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.000804J <0.00200	<0.000642 <0.000642 <0.000642 <0.000551 <0.000551 <0.000642 <0.00100	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.00200 <0.00200 <0.00500 <0.00100	0.00111 J <0.000657 <0.00124 <0.00124 0.00158J 0.00428 <0.00500 <0.00100				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 DUP-1 06/09/2022 09/27/2022 DUP-1 02/17/2023 03/27/2023 03/27/2023	<0.000408 0.000596J <0.000533 <0.000533 <0.000408 0.00107 <0.00500	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475 <0.000367 0.00119 <0.00500	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 <0.000804J <0.00200 <0.0100	<0.000642 <0.000642 <0.000542 <0.000551 <0.000642 <0.00100 <0.00100 <0.00500	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.000804J <0.00200 <0.00500	0.00111 J <0.000657 <0.00124 <0.00124 0.00158J 0.00428 <0.00500				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 DUP-1 06/09/2022 09/27/2022 DUP-1 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023	<0.000408 0.000596J <0.000533 <0.000533 <0.000408 0.00107 <0.00500 <0.00100 <0.00190	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000367 0.00119 <0.00500 <0.00100 <0.000412	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500 <0.00100 <0.000160	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.000804J <0.00200 <0.0100 <0.00200	<0.000642 <0.000642 <0.000642 <0.000551 <0.000551 <0.000642 <0.00100 <0.00500 <0.00100	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.00200 <0.00500 <0.00500 <0.00051	0.00111 J <0.000657 <0.00124 <0.00124 0.00158J 0.00428 <0.00500 <0.00100 <0.000510				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 DUP-1 06/09/2022 09/27/2022 DUP-1 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023	<0.000408 0.000596J <0.000533 <0.000533 <0.000408 0.00107 <0.00500 <0.00100 <0.000190 <0.000408	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475 <0.000367 0.00119 <0.00500 <0.00100 <0.000412	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500 <0.00100 <0.000160	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.000804J <0.00200 <0.0100 <0.00200 <0.0000629	<0.000642 <0.000642 <0.000642 <0.000551 <0.000551 <0.000642 <0.00100 <0.00500 <0.00100	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.00804J <0.00200 <0.00500 <0.00100 <0.00051	0.00111 J <0.000657 <0.00124 <0.00124 0.00158J 0.00428 <0.00500 <0.00100 <0.000510				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2022 DUP-1 06/09/2022 DUP-1 02/17/2022 DUP-1 02/17/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023	<0.000408 0.000596J <0.000533 <0.000533 <0.000408 <0.00107 <0.00500 <0.00100 <0.000190 <0.000408 <0.000408 <0.000408 <0.000408	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475 <0.000367 0.00119 <0.00500 <0.00100 <0.000412 0.000403 J <0.000367	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500 <0.00100 <0.000160	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.000804J <0.00200 <0.0100 <0.00200	<0.000642 <0.000642 <0.00051 <0.000551 <0.000551 <0.000642 <0.00100 <0.00500 <0.00100 	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.00804J <0.00200 <0.00500 <0.00100 <0.00051	0.00111 J <0.000657 <0.00124 <0.00128 0.00158J 0.00428 <0.00500 <0.00100 <0.000510				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 DUP-1 06/09/2022 DUP-1 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 06/09/2022 06/09/2022 09/27/2022	<pre><0.000408 0.000596J <0.000533 <0.000533 <0.000408 0.00107 <0.00500 <0.00100 <0.000190 </pre>	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000367 <0.000367 <0.00110 <0.00500 <0.00100 <0.000412 -0.000403 J <0.000367 <0.000475	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500 <0.00100 <0.00160 <0.000657 <0.000657 <0.000657 <0.000411	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 <0.00200 <0.0100 <0.00200 <0.000629 <0.000629 <0.00124	<0.000642 <0.000642 <0.000551 <0.000551 <0.000642 <0.00100 <0.00500 <0.00100 	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.00280 <0.00500 <0.00500 <0.00501 <0.000642 <0.000642 <0.00124	0.00111 J <0.000657 <0.00124 <0.00128 <0.00158J 0.00428 <0.00500 <0.00100 <0.000510 <0.000657 <0.000657				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 DUP-1 06/09/2022 09/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 09/20/2023 09/20/2023	<0.000408 0.000596J <0.000533 <0.000408 0.00107 <0.00500 <0.00100 <0.000190 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000533 <0.000408 <0.000408 <0.000408 <0.000408	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000367 <0.00119 <0.00500 <0.00100 <0.000403 J <0.000403 J <0.000475 <0.000475	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500 <0.00100 <0.00160 <0.000657 <0.000657 <0.000657	<0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.000804J <0.00200 <0.0100 <0.00200 -0.000629 <0.000629 <0.000629 <0.000629	<000642 <0.000642 <0.000642 <0.000551 <0.000551 <0.00100 <0.00100 <0.00100 -0.000642 <0.000642 <0.000642 <0.000645 <0.000642	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.00200 <0.00500 <0.00100 <0.00051 <0.000642 <0.00124 <0.00124	0.00111 J <0.000657 <0.00124 <0.00158J 0.00428 <0.00500 <0.00100 <0.000510 <0.000657 <0.000657 <0.000657				
MW-5	06/09/2022 09/27/2022 09/27/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 DUP-1 02/17/2023 03/27/2022 DUP-1 02/17/2023 03/27/2023 06/28/2023 12/20/2023 12/20/2023 03/27/2023 03/27/2023 03/27/2023	 <0.000408 <0.000596J <0.000533 <0.000503 <0.00500 <0.00100 <0.00100 <0.000190 <0.000408 	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475 <0.00500 <0.00119 <0.00500 <0.00100 <0.000412 0.000403 J <0.000367 <0.000475 <0.000367 <0.00100	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500 <0.00100 <0.00160 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657	<0.000629 <0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.00804J <0.00200 <0.0100 <0.00000 <0.0000029 <0.000629 <0.000629 <0.000629 <0.000629 <0.000629	<0.000642 <0.000642 <0.000642 <0.000551 <0.000551 <0.00100 <0.00500 <0.00100 - <0.000642 <0.000642 <0.000642 <0.000642 <0.000642 <0.000642	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.00200 <0.00500 <0.00501 <0.000642 <0.000642 <0.00104 <0.000642 <0.000642	0.00111 J <0.000657 <0.00124 <0.00124 0.00158J 0.00428 <0.00500 <0.00100 <0.000510 <0.000657 <0.000657 <0.000657 <0.000657 <0.00124 <0.000657				
MW-5	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 DUP-1 06/09/2022 09/27/2022 DUP-1 06/28/2023 03/27/2023 06/28/2023 03/15/2022 06/09/2022 09/27/2023 03/15/2022 06/28/2023 03/27/2023	 <0.000408 <0.000596J <0.000533 <0.000533 <0.000408 <0.00500 <0.00100 <0.000190 <0.000408 <0.000408 <0.000408 <0.000500 <0.000408 <0.000500 <0.000500 	0.000459 J 0.000433 J <0.000367 <0.000367 0.00119 <0.00500 <0.000412 0.000403 J <0.000475 <0.000475 <0.000475 <0.000475 <0.000475 <0.000475 <0.000475 <0.000475 <0.000475 <0.000475 <0.000475 <0.000475 <0.000500	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500 <0.00100 <0.000160 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657	<0.000629 <0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.00200 <0.0100 <0.00200 <0.000629 <0.000629 <0.000629 <0.000629 <0.000629 <0.000629 <0.000620 <0.000620 <0.000620 <0.000620	<0.000642 <0.000642 <0.000642 <0.000551 <0.000551 <0.000642 <0.00100 <0.00500 <0.000642 <0.000642 <0.000642 <0.000642 <0.000642 <0.000642 <0.000642 <0.000642 <0.000642	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.00200 <0.00500 <0.00500 <0.00051 <0.000642 <0.001642 <0.000642 <0.001642 <0.000642 <0.000642 <0.000642 <0.000642 <0.000642	0.00111 J <0.000657 <0.00124 <0.00124 0.00158J 0.00428 <0.00500 <0.00100 <0.000510 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657				
MW-5	06/09/2022 09/27/2022 09/27/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 DUP-1 02/17/2023 03/27/2022 DUP-1 02/17/2023 03/27/2023 06/28/2023 12/20/2023 12/20/2023 03/27/2023 03/27/2023 03/27/2023	 <0.000408 <0.000596J <0.000533 <0.000503 <0.00500 <0.00100 <0.00100 <0.000190 <0.000408 	0.000459 J 0.000433 J <0.000367 <0.000475 <0.000475 <0.00500 <0.00119 <0.00500 <0.00100 <0.000412 0.000403 J <0.000367 <0.000475 <0.000367 <0.00100	0.000700 J 0.000673 J <0.000657 <0.000411 <0.000411 0.000780J 0.00202 <0.00500 <0.00100 <0.00160 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657	<0.000629 <0.000629 <0.000629 <0.000629 <0.00124 <0.00124 0.00804J <0.00200 <0.0100 <0.00000 <0.0000029 <0.000629 <0.000629 <0.000629 <0.000629 <0.000629	<0.000642 <0.000642 <0.000642 <0.000551 <0.000551 <0.00100 <0.00500 <0.00100 - <0.000642 <0.000642 <0.000642 <0.000642 <0.000642 <0.000642	<0.000642 <0.000642 <0.000642 <0.00124 <0.00124 0.00200 <0.00500 <0.00501 <0.000642 <0.000642 <0.00104 <0.000642 <0.000642	0.00111 J <0.000657 <0.00124 <0.00158J 0.00428 <0.00500 <0.00100 <0.000510 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657				

- BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes
 NMOCD = New Mexico Oil Conservation Division
- 3. RRAL Criteria = Recommended Remediation Action Level Criteria
- NE = Not Established
 The target analyte was positively identified below the quantitation limit and above the detection limit Bold text indicates a concentration exceeding the NMOCD RRAL Criteria

Table 2 **Groundwater BTEX¹ Concentration Analytical Summary**

Livingston Line - Bob McCasland Pipeline Leak Lea County, New Mexico Plains SRS #: 2001-11226 Etech Project #: 17475 NMOCD² Incident ID#: nAPP2109736613

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

		All concentrations are in milligrams per liter (mg/L) EPA SW846-8021B										
Monitoring Well	Date Sampled	Benzene	Toluene	Ethylbenzene	M,P- Xylenes	O- Xylenes	Total Xylenes	Total BTEX				
NMOCD RRA	AL CRITERIA ³	0.01	0.75	0.75	тот	TAL XYLENES	0.62	NE ⁴				
	03/15/2022	<0.000408	< 0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657				
	06/09/2022											
	09/27/2022			Well Not San	npled (Annual S	Schedule)						
MW-7	02/17/2023							<0.00200				
10100	03/27/2023	<0.00100	<0.00100 <0.00100 <0.00100 <0.00200 <0.00100 <0.00200									
	06/28/2023											
	09/20/2023			Well Not San	npled (Annual S	Schedule)						
	12/20/2023											
	00/45/0000	-0.000400	0.000425 1	-0.0000E7	-0.000000	-0.000640	-0.000042	-0.000CE7				
	03/15/2022	<0.000408	0.000435 J	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657				
	06/09/2022	4		Wall Not Con	npled (Annual S	'abadula)						
	09/27/2022	4		well not sar	ripied (Aririuai S	criedule)						
MW-8	02/17/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200				
	03/27/2023	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200				
	06/28/2023	4		Wall Not Con	npled (Annual S	'abadula)						
	09/20/2023	4		Well Not Sail	ripieu (Ariiluai 3	criedule)						
	12/20/2023											
	03/15/2022											
	03/15/2022											
	06/09/2022											
	06/09/2022 09/27/2022											
MW-9	06/09/2022 09/27/2022 02/17/2023	-		Insufficient Vol	ume for Sample	e Collection						
MW-9	06/09/2022 09/27/2022 02/17/2023 03/27/2023	-		Insufficient Vol	ume for Sample	• Collection						
MW-9	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023			Insufficient Vol	ume for Sample	Collection						
MW-9	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023			Insufficient Vol	ume for Sample	c Collection						
MW-9	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023			Insufficient Vol	ume for Sample	c Collection						
MW-9	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023	<0.000408	<0.000367	Insufficient Vol	ume for Sample	• Collection	<0.000642	<0.000657				
MW-9	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023	<0.000408	<0.000367				<0.000642	<0.000657				
MW-9	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022	<0.000408	<0.000367	<0.000657		<0.000642	<0.000642	<0.000657				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 06/09/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657				
MW-9	06/09/2022 09/27/2022 02/17/2023 02/17/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023			<0.000657 Well Not Sar	<0.000629	<0.000642 Schedule)						
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 03/27/2023			<0.000657 Well Not Sar <0.00100	<0.000629	<0.000642 Schedule) <0.00100						
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023			<0.000657 Well Not Sar <0.00100	<0.000629 mpled (Annual S	<0.000642 Schedule) <0.00100						
	06/09/2022 09/27/2022 02/17/2023 02/17/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023			<0.000657 Well Not Sar <0.00100	<0.000629 mpled (Annual S	<0.000642 Schedule) <0.00100						
	06/09/2022 09/27/2022 02/17/2023 02/17/2023 06/28/2023 09/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023			<0.000657 Well Not Sar <0.00100	<0.000629 mpled (Annual S	<0.000642 Schedule) <0.00100						
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 12/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 12/20/2023	<0.00100	<0.00100	<0.000657 Well Not Sar <0.00100 Well Not Sar <0.000657	<0.000629 npled (Annual S <0.00200 npled (Annual S <0.000629	<0.000642 Schedule) <0.00100 Schedule)	<0.00200	<0.00200				
	06/09/2022 09/27/2022 02/17/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 03/27/2023 09/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022	<0.00100	<0.00100	<0.000657 Well Not Sar <0.00100 Well Not Sar <0.000657	<0.000629 npled (Annual S <0.00200 npled (Annual S	<0.000642 Schedule) <0.00100 Schedule)	<0.00200	<0.00200				
MW-10	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023	<0.00100	<0.00100	<0.000657 Well Not Sar <0.00100 Well Not Sar <0.000657 Well Not Sar	<0.000629 npled (Annual S <0.00200 npled (Annual S <0.000629 npled (Annual S	<0.000642 sichedule) <0.00100 schedule) <0.000642 sichedule)	<0.00200 <0.000642	<0.00200 <0.000657				
	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 12/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 06/28/2023 12/20/2023 12/20/2023 12/20/2023 03/15/2022 06/09/2022 06/09/2022 09/27/2022 09/27/2022 09/27/2022 09/27/2022 03/27/2023	<0.00100	<0.00100	<0.000657 Well Not Sar <0.00100 Well Not Sar <0.000657	<0.000629 npled (Annual S <0.00200 npled (Annual S <0.000629	<0.000642 Schedule) <0.00100 Schedule)	<0.00200	<0.00200				
MW-10	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 09/20/2023 12/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 06/28/2023 03/27/2023 03/15/2022 06/09/2022 09/27/2023 03/27/2023 03/27/2023 03/27/2023 03/27/2023 03/27/2023 03/27/2023	<0.00100	<0.00100	<0.000657 Well Not San <0.00100 Well Not San <0.000657 Well Not San <0.00100	<0.000629 npled (Annual S <0.00200 npled (Annual S <0.000629 npled (Annual S <0.000629	<0.000642 Schedule) <0.00100 Schedule) <0.000642 Schedule)	<0.00200 <0.000642	<0.00200 <0.000657				
MW-10	06/09/2022 09/27/2022 02/17/2023 03/27/2023 06/28/2023 12/20/2023 12/20/2023 03/15/2022 06/09/2022 09/27/2022 02/17/2023 06/28/2023 12/20/2023 12/20/2023 12/20/2023 03/15/2022 06/09/2022 06/09/2022 09/27/2022 09/27/2022 09/27/2022 09/27/2022 03/27/2023	<0.00100	<0.00100	<0.000657 Well Not San <0.00100 Well Not San <0.000657 Well Not San <0.00100	<0.000629 npled (Annual S <0.00200 npled (Annual S <0.000629 npled (Annual S	<0.000642 Schedule) <0.00100 Schedule) <0.000642 Schedule)	<0.00200 <0.000642	<0.00200 <0.000657				

Notes:

- 1. BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes
- 2. NMCCD = New Mexico Oil Conservation Division
 3. RRAL Criteria = Recommended Remediation Action Level Criteria
 4. NE = Not Established
- 3. The target analyte was positively identified below the quantitation limit and above the detection limit **Bold** text indicates a concentration exceeding the NMOCD RRAL Criteria

Table 3 MW-4 PSH¹/BTEX² Impacted Groundwater Recovery Summary

Livingston Line to Bob McCasland Pipeline Release Lea County, New Mexico Plains SRS #: 2001-11226

Etech Project #: 17475 NMOCD³ Incident ID#: nAPP2109736613

All elevations are measured in feet above mean sea level

Monitoring Well	Date	Depth to PSH ¹ Below Top of Casing	Depth to Water Below Top of Casing	PSH Thickness	Total Fluid Recovery (gallons)	PSH Recovered (gallons)
	01/25/2022	32.85	34.88	2.03	4.00	0.33
	02/23/2022	32.55	35.78	3.23	4.00	0.53
	03/29/2022	32.48	35.99	3.51	4.00	0.57
	04/27/2022	32.60	35.98	3.38	5.00	0.55
	08/31/2022	33.72	37.28	3.56	5.00	0.58
	10/19/2022	33.69	36.98	3.29	5.00	0.54
	11/22/2022	33.41	36.74	3.33	5.00	0.54
MW-4	03/10/2023	39.25	40.25	1.00	4.00	0.16
10100-4	03/27/2023	33.09	37.47	4.38	6.50	0.71
	05/12/2023	39.21	40.26	1.05	4.00	0.17
	05/25/2023	33.21	37.86	4.65	5.00	0.76
	06/28/2023	33.07	37.47	4.40	0.00	0.00
	07/25/2023	-	-	-	5.00	0.72
	08/22/2023	-	-	-	250	0.60
	09/20/2023	-	-	-	5.00	0.03
	12/20/2023	34.27	34.44	0.17	0.00	0.00
2023	Average PSI	H Thickness:	2.61	2023 Total Recovery	280	3.16

Notes:

- 1. PSH: Phase Separated Hydrocarbons
- 2. BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes
- 3. NMOCD: New Mexico Oil Conservation Division
- = Data not recorded

Table 4
MW-5 BTEX¹ Impacted Groundwater Recovery Summary

Livingston Line to Bob McCasland Pipeline Release Lea County, New Mexico Plains SRS #: 2001-11226 Etech Project #: 17476

NMOCD² Incident ID#: nAPP2109736613

All elevations are measured in feet above mean sea level

Monitoring Well	Date	Groundwater Recovered (gallons)
	01/25/2022	4.00
	02/23/2022	3.50
	03/29/2022	5.00
	04/27/2022	0.00
	08/31/2022	5.00
	10/19/2022	5.00
	11/22/2022	5.00
MW-5	02/21/2023	5.00
	03/10/2023	1.50
	03/27/2023	3.40
	05/12/2023	1.50
	06/28/2023	2.00
	07/25/2023	5.00
	09/20/2023	2.50
	12/20/2023	2.47
2023 Total (GW ³ Recovered	23.4

Notes:

1. BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes

2. NMOCD: New Mexico Oil Conservation Division

3. GW: Groundwater- = Data not recorded

Concentrations of PAH¹ in Groundwater Summary

Livingston Line – Bob McCasland Lea County, New Mexico Plains SRS #: 2001-11226 Etech Project #: 17475

NMOCD² Incident ID#: nAPP2109736613

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

		All concentrations are reported in milligrams per liter (mg/L) EPA SW846-8270C, 3510																
Well ID	Date Sampled	N/Aphthalene	Benzo(a) pyrene	AceN/Aphthene	AceN/Aphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)Pyrene	PheN/Anthrene	Pyrene
NMWQC	C Standard⁴	0.03	0.0007								NE⁵							
	9/13/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	7/14/2004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
MW-1	3/21/2005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	2/16/2006	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	5/10/2007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
	7/14/2004	0.0133	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	0.000061	<0.00005	0.000497	<0.00005
	3/21/2005	0.00883	<0.00005	0.000054	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	0.000052	<0.00005	0.000325	<0.00005
	2/16/2006	0.0128	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000066	<0.00005	N/A	<0.00005	0.000103	<0.00005	0.000352	<0.00005
	5/10/2007	0.00779	<0.0002	<0.0002	<0.0002	0.00175	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	0.000442	<0.0002	0.000229	<0.0004	<0.0002	<0.0002
MW-2	2/28/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	11/7/2012	0.00946	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	9/5/2013	0.000902	<0.0000508	<0.0000508	<0.000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508
	12/14/2020	<0.0000976	<0.0000573	<0.000100	<0.0000845	<0.0000869	<0.000135	<0.0000714	<0.000114	<0.000117	<0.000157	<0.0000763	N/A	<0.000158	<0.000101	<0.0000916	<0.0000854	<0.000131
	3/15/2022	<0.0000965	<0.0000567	<0.0000993	<0.0000836	<0.0000894	<0.000133	<0.0000695	<0.000112	<0.000115	<0.000155	<0.0000755	<0.0000993	<0.000156	<0.000100	<0.0000906	<0.0000844	<0.000129
						•												
	9/13/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	7/14/2004									N/A								
	9/14/2004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	3/21/2005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	2/16/2006	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
MW-3	5/10/2007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
14144-0	2/28/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	9/5/2013	<0.000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562
	10/5/2014							N	nt sampled due	to sampling frequ	iency reduction							
	10/15/2015							ĮŅ.	or sampled due	o sampling nequ	acricy reduction							
	12/14/2020	<0.000104	<0.0000613	<0.000107	<0.0000904	<0.0000930	<0.000144	<0.0000763	<0.000122	<0.000125	<0.000168	<0.0000816	N/A	<0.000169	<0.000108	<0.0000980	<0.0000913	<0.000140
	3/15/2022	<0.0000974	<0.0000572	<0.000100	<0.0000844	<0.0000902	<0.000134	<0.0000701	<0.000113	<0.000116	<0.000156	<0.0000761	<0.000100	<0.000157	<0.000101	<0.0000915	<0.0000974	<0.000130

Note

Released to Imaging: 7/3/2024 3:03:52 PM

- 1. PAH: Polycyclic Aromatic Hydrocarbons
- 2. NMOCD: New Mexico Oil Conservation Division
- 3. NMWQCC: New Mexico Water Quality Control Commission
- 4. NE: Not Established
- J: The target analyte was positively identified below the quantitation limit and above the detection limit

Concentrations of PAH¹ in Groundwater Summary

Livingston Line – Bob McCasland Lea County, New Mexico Plains SRS #: 2001-11226 Etech Project #: 17475

NMOCD² Incident ID#: nAPP2109736613

All concentrations are reported in milliarams per liter (ma/L)

							7111 0011	contrations are		rams per liter (m N846-8270C. :								
			1			-	1		EPA 3	74040-02700,	3510							
Well ID	Date Sampled	N/Aphthalene	Benzo(a) pyrene	AceN/Aphthene	AceN/Aphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)Pyrene	PheN/Anthrene	Pyrene
NMWQC	C Standard⁴	0.03	0.0007								NE ⁵							
							Not san	pled due to the	presence of Pha	se-Separated H	ydrocarbons (PS	SH)						
	2/16/2006	0.113	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00252	<0.00005	N/A	<0.00005	0.000855	<0.00005	0.00916	<0.00005
	5/10/2007	0.0659	<0.0002	<0.0002	<0.0002	0.00596	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	0.00112	<0.0002	0.000737	<0.0004	<0.0002	<0.0002
	2/28/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	12/30/2011	0.0366	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-4	11/7/2012	0.101	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00154	<0.0002	<0.0002	<0.0002	0.00494	<0.0002
	9/5/2013	0.0643	<0.0000667	<0.0000667	0.000288	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	0.00092	<0.0000667	0.000419	<0.0000667	0.00328	<0.0000667
	10/5/2014	0.00869	<0.0000660	<0.00000407	<0.00000495	<0.00000236	<0.00000527	<0.00000998	<0.00000796	<0.00000583	<0.00000427	<0.0000580	0.000308	<0.00000633	0.00014	<0.00000750	0.000821	<0.00000691
	10/15/2015	0.0104	<0.000391	<0.000958	<0.000967	<0.000729	<0.000367	< 0.000459	<0.000350	<0.000573	<0.000382	<0.000406	N/A	<0.000500	<0.000988	<0.000367	0.000797	0.000459
	11/14/2019	0.0107	<0.000108	<0.000108	0.000262	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	0.000831	<0.000108	0.000367	<0.000108	0.00148	<0.000108
	12/14/2020								Not sampled	due the present	ce of PSH							
	9/13/2001	0.049	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	7/14/2004									N/A								
	9/14/2004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	3/21/2005									N/A								
	2/16/2006	0.000415	<0.00005	0.000059	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	0.000147	<0.00005	0.000309	<0.00005
	5/10/2007	0.00218	<0.0002	<0.0002	<0.0002	0.00075	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	0.00112	<0.0002	0.000496	<0.0004	<0.0002	<0.0002
MW-5	2/28/2008	0.051	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	12/30/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	11/7/2012	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	9/5/2013	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562	0.000311	<0.0000562	<0.0000562	<0.0000562	<0.0000562	<0.0000562
	11/14/2019	0.00670	<0.000111	0.000233	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	0.00135	<0.000111	<0.000111	<0.000111	0.000242	<0.000111
	12/14/2020	<0.000101	<0.0000595	<0.000104	<0.0000878	<0.0000904	<0.000140	<0.0000742	<0.000118	<0.000121	<0.000163	<0.0000793	N/A	<0.000164	<0.000105	<0.0000953	<0.0000887	<0.000136
	3/15/2022	<0.000194	<0.0000605	<0.000106	<0.0000892	<0.0000954	<0.000142	<0.0000605	<0.000120	<0.000123	<0.000165	<0.0000805	0.000524	<0.000166	<0.000107	<0.0000968	<0.0000901	<0.000138

Notes

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- 1. PAH: Polycyclic Aromatic Hydrocarbons
- NMOCD: New Mexico Oil Conservation Division
- 3. NMWQCC: New Mexico Water Quality Control Commission
- 4. NE: Not Established
- J: The target analyte was positively identified below the quantitation limit and above the detection limit

Concentrations of PAH¹ in Groundwater Summary

Livingston Line - Bob McCasland Lea County, New Mexico Plains SRS #: 2001-11226 Etech Project #: 17475

NMOCD² Incident ID#: nAPP2109736613

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

							7.11. 001	ncentrations are i	-	W846-8270C,								
Well ID	Date Sampled	N/Aphthalene	Benzo(a)pyrene	AceN/Aphthene	AceN/Aphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)Pyrene	PheN/Anthrene	Pyrene
NMWQC	C Standard ⁴	0.03	0.0007								NE⁵							
	7/14/2004	0.00122	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	0.000085	<0.00005
	3/21/2005	0.000089	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	2/16/2006	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
MW-6	5/10/2007	0.00095	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
10100-0	2/28/2008	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	9/5/2013	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667	0.000305	<0.0000667	<0.0000667	<0.0000667	<0.0000667	<0.0000667
	12/14/2020	<0.0000977	<0.0000573	<0.000100	<0.0000846	<0.0000870	<0.000135	<0.0000714	<0.000114	<0.000117	<0.000157	<0.0000764	N/A	<0.000158	<0.000101	<0.0000917	<0.0000854	<0.000131
	3/15/2022	<0.0000962	<0.0000565	<0.0000989	<0.0000833	<0.0000890	<0.000133	<0.0000692	<0.000112	<0.000115	<0.000154	<0.0000752	<0.0000989	<0.000155	<0.0000999	<0.0000903	<0.0000841	<0.000129
															1			
	7/14/2004	0.000261	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	0.000293	<0.00005
	3/21/2005	0.000448	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	0.000222	<0.00005
	2/16/2006	0.000057	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
MW-7	5/10/2007	0.000606	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
	2/28/2008	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	12/30/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	9/5/2013	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508
			T	T		T	T			T	•	T						
	7/14/2004	0.000261	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	0.000293	<0.00005
	3/21/2005	0.000448	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	0.000222	<0.00005
	2/16/2006	0.000057	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
MW-8	5/10/2007	0.000606	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
	2/28/2008	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	12/30/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	9/5/2013	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508

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Concentrations of PAH¹ in Groundwater Summary

Livingston Line – Bob McCasland Lea County, New Mexico Plains SRS #: 2001-11226 Etech Project #: 17475

NMOCD² Incident ID#: nAPP2109736613

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

									-	W846-8270C,								
Well ID	Date Sampled	N/Aphthalene	Benzo(a)pyrene	AceN/Aphthene	AceN/Aphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)Pyrene	PheN/Anthrene	Pyrene
NMWQC	C Standard ⁴	0.03	0.0007								NE ⁵							
	7/14/2004	0.00798	<0.00005	0.000089	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	0.000306	<0.00005	0.00008	<0.00005
	3/21/2005	0.00126	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	0.000076	<0.00005	0.000068	<0.00005
	2/16/2006	0.0107	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	0.000139	<0.00005	0.000125	<0.00005
MW-9	5/10/2007	0.00243	<0.0002	<0.0002	<0.0002	0.000222	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	0.00132	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
	2/28/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	9/5/2013	0.00247	<0.000588	<0.000588	<0.0000588	<0.0000588	<0.0000588	<0.0000588	<0.0000588	<0.000588	<0.0000588	<0.0000588	0.000354	<0.0000588	0.000262	<0.000588	0.000287	<0.0000588
	12/14/2020	<0.0000969	<0.0000569	<0.0000996	<0.0000839	<0.0000863	<0.000134	<0.0000708	<0.000113	<0.000116	<0.000156	<0.0000757	N/A	<0.000157	<0.000100	<0.0000910	<0.0000848	<0.000130
	3/21/2005	0.00738	<0.00005	0.000083	0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	0.000292	<0.00005	0.000654	<0.00005
	2/16/2006									N/A								
MW-10	5/22/2006	0.000174	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	0.00009	<0.00005	0.000202	<0.00005
10100-10	5/10/2007	0.000688	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	0.00108	<0.0002	0.000388	<0.0004	<0.0002	<0.0002
	2/28/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	9/5/2013	0.000548	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	<0.0000508	0.000714	<0.0000508	0.0000839	<0.0000508	0.0000605	<0.0000508
	3/21/2005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	2/16/2006	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	N/A	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
MW-11	5/10/2007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
	2/28/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	9/5/2013	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524	<0.0000524

Notes

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Appendix A Laboratory Analytical Reports

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



Analytical Report

Prepared for:

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

Project: Plains-Livingston Line Project Number: 17475 Location: Lea County, NM

Lab Order Number: 3D03009



Current Certification

Report Date: 04/14/23

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

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10	3D03009-01	Water	03/27/23 15:20	04-03-2023 14:40
MW-11	3D03009-02	Water	03/27/23 15:00	04-03-2023 14:40
MW-5	3D03009-03	Water	03/27/23 12:12	04-03-2023 14:40
MW-8	3D03009-04	Water	03/27/23 11:34	04-03-2023 14:40
MW-2	3D03009-05	Water	03/27/23 10:01	04-03-2023 14:40
MW-6	3D03009-06	Water	03/27/23 08:58	04-03-2023 14:40
MW-7	3D03009-07	Water	03/27/23 11:02	04-03-2023 14:40
MW-3	3D03009-08	Water	03/27/23 09:24	04-03-2023 14:40

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

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

MW-10 3D03009-01 (Water)

		Reporting							
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	P3D0302	04/03/23 15:51	04/04/23 06:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:02	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		P3D0302	04/03/23 15:51	04/04/23 06:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.4 %	80-120		P3D0302	04/03/23 15:51	04/04/23 06:02	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

MW-11 3D03009-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental l	Lab, L.P.			
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:23	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:23	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:23	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:23	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		P3D0302	04/03/23 15:51	04/04/23 06:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	80-120		P3D0302	04/03/23 15:51	04/04/23 06:23	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

MW-5 3D03009-03 (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	0.00107	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:44	EPA 8021B	
Toluene	0.00119	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:44	EPA 8021B	
Ethylbenzene	0.00202	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 06:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	80-120		P3D0302	04/03/23 15:51	04/04/23 06:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.3 %	80-120		P3D0302	04/03/23 15:51	04/04/23 06:44	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

MW-8 3D03009-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental l	Lab, L.P.			
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 07:06	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 07:06	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 07:06	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 07:06	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 07:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		P3D0302	04/03/23 15:51	04/04/23 07:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.9 %	80-120		P3D0302	04/03/23 15:51	04/04/23 07:06	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

MW-2 3D03009-05 (Water)

Analyte	Result	Reporting 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	P3D0302	04/03/23 15:51	04/04/23 07:27	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 07:27	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 07:27	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 07:27	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0302	04/03/23 15:51	04/04/23 07:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		P3D0302	04/03/23 15:51	04/04/23 07:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.4 %	80-120		P3D0302	04/03/23 15:51	04/04/23 07:27	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

MW-6 3D03009-06 (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	P3D0603	04/06/23 10:11	04/06/23 22:52	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 22:52	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 22:52	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 22:52	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 22:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		P3D0603	04/06/23 10:11	04/06/23 22:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P3D0603	04/06/23 10:11	04/06/23 22:52	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

MW-7 3D03009-07 (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	P3D0603	04/06/23 10:11	04/06/23 23:13	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P3D0603	04/06/23 10:11	04/06/23 23:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.3 %	80-120		P3D0603	04/06/23 10:11	04/06/23 23:13	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

MW-3 3D03009-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Po	ermian B	asin Envi	ronmental l	Lab, L.P.			
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:35	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:35	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:35	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:35	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3D0603	04/06/23 10:11	04/06/23 23:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	80-120		P3D0603	04/06/23 10:11	04/06/23 23:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	80-120		P3D0603	04/06/23 10:11	04/06/23 23:35	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

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 P3D0302 - *** DEFAULT PREP ***										
Blank (P3D0302-BLK1)				Prepared &	Analyzed:	04/03/23				
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	0.132		"	0.120		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.7	80-120			
LCS (P3D0302-BS1)				Prepared &	z Analyzed:	04/03/23				
Benzene	0.117	0.00100	mg/L	0.100		117	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)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	80-120			
LCS Dup (P3D0302-BSD1)				Prepared &	Analyzed:	04/03/23				
Benzene	0.114	0.00100	mg/L	0.100		114	80-120	2.37	20	
Toluene	0.115	0.00100	"	0.100		115	80-120	0.00873	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120	1.17	20	
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120	0.246	20	
Xylene (o)	0.113	0.00100	"	0.100		113	80-120	0.563	20	
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.7	80-120			
Calibration Blank (P3D0302-CCB1)				Prepared &	z Analyzed:	04/03/23				
Benzene	0.130		ug/l							
Toluene	0.290		"							
Ethylbenzene	0.470		"							
Xylene (p/m)	1.45		"							
Xylene (o)	0.650		"							
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.4	80-120			

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

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 P3D0302 - *** DEFAULT PREP ***										
Calibration Blank (P3D0302-CCB2)				Prepared: 0	04/03/23 A1	nalyzed: 04	/04/23			
Benzene	0.0900		ug/l							
Toluene	0.220		"							
Ethylbenzene	0.430		"							
Xylene (p/m)	1.07		"							
Xylene (o)	0.440		"							
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.5	80-120			
Calibration Check (P3D0302-CCV1)				Prepared &	: Analyzed:	04/03/23				
Benzene	0.0818	0.00100	mg/L	0.100		81.8	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		119	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.1	80-120			
Calibration Check (P3D0302-CCV2)				Prepared: 0	04/03/23 At	nalyzed: 04	/04/23			
Benzene	0.0861	0.00100	mg/L	0.100		86.1	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	80-120			
Calibration Check (P3D0302-CCV3)				Prepared: 0	04/03/23 At	nalyzed: 04	/04/23			
Benzene	0.109	0.00100	mg/L	0.100		109	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.219	0.00200	"	0.200		109	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.0961		"	0.120		80.1	80-120			

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13000 West County Road 100 Odessa TX, 79765

Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

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 P3D0302 - *** DEFAULT PREP ***										

Matrix Spike (P3D0302-MS1)	Source	Source: 3C27011-01 P		Prepared: 04/03/23 Analyzed: 04/04/23				
Benzene	0.112	0.00100	mg/L	0.100	ND	112	80-120	
Toluene	0.109	0.00100	"	0.100	ND	109	80-120	
Ethylbenzene	0.116	0.00100	"	0.100	ND	116	80-120	
Xylene (p/m)	0.233	0.00200	"	0.200	ND	117	80-120	
Xylene (o)	0.107	0.00100	"	0.100	ND	107	80-120	
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		114	80-120	
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	80-120	

Matrix Spike Dup (P3D0302-MSD1)	Sour	Source: 3C27011-01 P			4/03/23 A	nalyzed: 0				
Benzene	0.119	0.00100	mg/L	0.100	ND	119	80-120	6.19	20	
Toluene	0.117	0.00100	"	0.100	ND	117	80-120	7.63	20	
Ethylbenzene	0.117	0.00100	"	0.100	ND	117	80-120	0.797	20	
Xylene (p/m)	0.242	0.00200	"	0.200	ND	121	80-120	3.70	20	QM-05
Xylene (o)	0.114	0.00100	"	0.100	ND	114	80-120	6.33	20	
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.6	80-120			

Batch P3D0603 - *** DEFAULT PREP ***

Blank (P3D0603-BLK1)				Prepared & Analy	zed: 04/06/23		
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	0.111		"	0.120	92.5	80-120	
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120	103	80-120	

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

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

Analyse	D 1/	Reporting	TT **	Spike	Source	0/BEC	%REC	DPD	RPD	XT /
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3D0603 - *** DEFAULT PREP ***										
LCS (P3D0603-BS1)				Prepared &	Analyzed:	04/06/23				
Benzene	0.118	0.00100	mg/L	0.100		118	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.225	0.00200	"	0.200		112	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			
LCS Dup (P3D0603-BSD1)				Prepared &	Analyzed:	04/06/23				
Benzene	0.120	0.00100	mg/L	0.100		120	80-120	1.28	20	
Toluene	0.119	0.00100	"	0.100		119	80-120	5.95	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	5.28	20	
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120	6.05	20	
Xylene (o)	0.111	0.00100	"	0.100		111	80-120	6.13	20	
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			
Calibration Blank (P3D0603-CCB1)				Prepared &	Analyzed:	04/06/23				
Benzene	0.180		ug/l							
Toluene	0.320		"							
Ethylbenzene	0.570		"							
Xylene (p/m)	1.00		"							
Xylene (o)	0.580		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			
Calibration Blank (P3D0603-CCB2)				Prepared &	Analyzed:	04/06/23				
Benzene	0.170		ug/l	-	-					
Toluene	0.180		"							
Ethylbenzene	0.270		"							
Xylene (p/m)	0.630		"							
Xylene (o)	0.330		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.9	80-120			

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13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

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 P3D0603 - *** DEFAULT PREP ***										
Calibration Check (P3D0603-CCV1)				Prepared &	: Analyzed:	04/06/23				
Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.224	0.00200	"	0.200		112	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			
Calibration Check (P3D0603-CCV2)				Prepared &	: Analyzed:	04/06/23				
Benzene	0.0938	0.00100	mg/L	0.100		93.8	80-120			
Toluene	0.0903	0.00100	"	0.100		90.3	80-120			
Ethylbenzene	0.0861	0.00100	"	0.100		86.1	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.4	80-120			
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.1	80-120			
Calibration Check (P3D0603-CCV3)				Prepared: 0	04/06/23 A	nalyzed: 04	/07/23			
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.0994	0.00100	"	0.100		99.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			
Matrix Spike (P3D0603-MS1)	Sou	rce: 3C28006-	01	Prepared: 0	04/06/23 At	nalyzed: 04	/07/23			
Benzene	0.116	0.00100	mg/L	0.100	ND	116	80-120			
Toluene	0.115	0.00100	"	0.100	ND	115	80-120			
Ethylbenzene	0.120	0.00100	"	0.100	ND	120	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200	ND	117	80-120			
Xylene (o)	0.104	0.00100	"	0.100	ND	104	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	80-120			

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

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 P3D0603 - *** DEFAULT PREP ***

Matrix Spike Dup (P3D0603-MSD1)	Sour	ce: 3C28006-	01	Prepared: 0	4/06/23 A	nalyzed: 0	4/07/23		
Benzene	0.106	0.00100	mg/L	0.100	ND	106	80-120	9.04	20
Toluene	0.106	0.00100	"	0.100	ND	106	80-120	8.25	20
Ethylbenzene	0.111	0.00100	"	0.100	ND	111	80-120	7.57	20
Xylene (p/m)	0.220	0.00200	"	0.200	ND	110	80-120	6.51	20
Xylene (o)	0.0981	0.00100	"	0.100	ND	98.1	80-120	5.82	20
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120		
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120		

13000 West County Road 100

Project Number: 17475

Odessa TX, 79765

Project Manager: Joel Lowry

Project: Plains-Livingston Line

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 CO Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

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

Duplicate

MS Matrix Spike

Dup

	Drew	Darron			
Report Approved By:			Date:	4/14/2023	

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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13000 West County Road 100 Odessa TX, 79765 Project: Plains-Livingston Line

Project Number: 17475 Project Manager: Joel Lowry

Permian Basin Environmental Lab, L.P.

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP 1400 Rankin Hwy Phone: 432-686-7235

	Project Manager:	Joel Lowry		ğ		-		Mic	dland	i, Te	xas	797	01				Pro	ject	Nar	ne: _	Livin	gsto	n Li	ne_	.,,					
	Company Name	Plains All Americar	n Pip	eline,	L.P.													Pro	ojec	t #: _	1747	'5								
	Company Address:	1106 Griffith Drive															P	roje	ct L	oc: _	Lea C	ouni	y, Ni	VI				-		
	City/State/Zip:	Midland, TX 79706	3										Å						PC) #: <u>-</u>	2001-	-1122	26							
	Telephone No:						Fax No:						1, 1				Report	For	mat	:	x s	tand	ard	Γ	□ ті	RRP	ī		PDE:	s
	Sampler Signature:	Miguel Ramirez					e-mail:		pm@	@et	ech	env.	com	1																-
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B# (lab use only)				Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers		HNO _{3 250,ml} Poly	SO ₄	NaOH	2S2O3	None 1L Poly	JH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Soild NP=Non-Potable Specify Other	TPH by TX 1005 8015B 801	Chloride	BTEX by 8021B									3 72	:
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

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

Project: LIVINGSTON LINE Project Number: 17475

Location: RURAL LEA COUNTY, NM

Lab Order Number: 3F29012



Current Certification

Report Date: 07/17/23

13000 West County Road 100Project Number: 17475Odessa TX, 79765Project Manager: Zach Conder

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW2	3F29012-01	Water	06/28/23 14:25	06-29-2023 13:09
MW3	3F29012-02	Water	06/28/23 14:30	06-29-2023 13:09
MW5	3F29012-03	Water	06/28/23 14:30	06-29-2023 13:09
MW6	3F29012-04	Water	06/28/23 14:35	06-29-2023 13:09

Project: LIVINGSTON LINE

Due to failure of our BTEX Autosampler, 8260 BTEX analysis was subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:

https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Zach Conder

MW2 3F29012-01 (Water)

Analyte	Result	Reporting Limit P	Units ermian B	Dilution	Batch	Prepared Lab, L.P.	Analyzed	Method	Notes
Volatile Organic Compounds by	EPA Method 8	260B							
Benzene	ND	0.00500	mg/L	1	P3G1717	07/07/23 17:31	07/07/23 17:31	EPA 8260B	SUB-13
Ethylbenzene	ND	0.00500	mg/L	1	P3G1717	07/07/23 17:31	07/07/23 17:31	EPA 8260B	SUB-13
m,p-Xylene	ND	0.0100	mg/L	1	P3G1717	07/07/23 17:31	07/07/23 17:31	EPA 8260B	SUB-13
o-Xylene	ND	0.00500	mg/L	1	P3G1717	07/07/23 17:31	07/07/23 17:31	EPA 8260B	SUB-13
Toluene	ND	0.00500	mg/L	1	P3G1717	07/07/23 17:31	07/07/23 17:31	EPA 8260B	SUB-13
Xylenes, total (v/v)	ND	0.00500	mg/L	1	P3G1717	07/07/23 17:31	07/07/23 17:31	EPA 8260B	SUB-13

13000 West County Road 100 Odessa TX, 79765

Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Zach Conder

MW3 3F29012-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	Permian	Basin Envir	onmental]	Lab, L.P.			
Volatile Organic Compounds l	oy EPA Method 8	260B							

Benzene	ND 0	0.00500 mg/L	1	P3G1717	07/07/23 17:53	07/07/23 17:53	EPA 8260B	SUB-13
Ethylbenzene	ND 0	0.00500 mg/L	1	P3G1717	07/07/23 17:53	07/07/23 17:53	EPA 8260B	SUB-13
m,p-Xylene	ND	$0.0100 \hspace{1.5cm} ^{mg/L}$	1	P3G1717	07/07/23 17:53	07/07/23 17:53	EPA 8260B	SUB-13
o-Xylene	ND 0	0.00500 mg/L	1	P3G1717	07/07/23 17:53	07/07/23 17:53	EPA 8260B	SUB-13
Toluene	ND 0	0.00500 mg/L	1	P3G1717	07/07/23 17:53	07/07/23 17:53	EPA 8260B	SUB-13
Xylenes, total (v/v)	ND 0	0.00500 mg/L	1	P3G1717	07/07/23 17:53	07/07/23 17:53	EPA 8260B	SUB-13

13000 West County Road 100 Odessa TX, 79765

Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Zach Conder

MW5 3F29012-03 (Water)

Analyte	Result	Reporting Limit U	fnits Dilution	Batch	Prepared	Analyzed	Method	Notes
		Per	nian Basin Env	vironmenta	l Lab, L.P.			

Volatile Organ	nic Compo	ounds by	EPA	Method	8260B

Benzene	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:16	07/07/23 18:16	EPA 8260B	SUB-13
Ethylbenzene	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:16	07/07/23 18:16	EPA 8260B	SUB-13
m,p-Xylene	ND 0.0100	mg/L	1	P3G1717	07/07/23 18:16	07/07/23 18:16	EPA 8260B	SUB-13
o-Xylene	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:16	07/07/23 18:16	EPA 8260B	SUB-13
Toluene	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:16	07/07/23 18:16	EPA 8260B	SUB-13
Xylenes, total (v/v)	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:16	07/07/23 18:16	EPA 8260B	SUB-13

13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Zach Conder

MW6 3F29012-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian l	Basin Envir	onmental	Lab, L.P.			

Volatile Organic	Compounds	<u>by EPA</u>	Method 8260B

Benzene	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:38	07/07/23 18:38	EPA 8260B	SUB-13
Ethylbenzene	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:38	07/07/23 18:38	EPA 8260B	SUB-13
m,p-Xylene	ND 0.0100	mg/L	1	P3G1717	07/07/23 18:38	07/07/23 18:38	EPA 8260B	SUB-13
o-Xylene	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:38	07/07/23 18:38	EPA 8260B	SUB-13
Toluene	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:38	07/07/23 18:38	EPA 8260B	SUB-13
Xylenes, total (v/v)	ND 0.00500	mg/L	1	P3G1717	07/07/23 18:38	07/07/23 18:38	EPA 8260B	SUB-13

13000 West County Road 100

Odessa TX, 79765

Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Zach Conder

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

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100

Odessa TX, 79765

Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Zach Conder

Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

ROI Received on Ice

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

MS Matrix Spike

Dup Duplicate

	Dren	Darwort			
Report Approved By:			Date:	7/17/2023	

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone:	432-686-723
Filone.	432-000-123

Phone: 432-686-7235		
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Project Name: Livingston Line	Page 9 of 2	
	á	r

Project Manager:	Zach Conder			- 1		4
		_		 4	1	

Etech Environmented Company Name

Project Loc: Rual Lea Co., Nm Company Address: 2617 w. Marland

Hobbs, Nm 88240 City/State/Zip:

575.396 . 2378 Telephone No:

575 - 396 - 1429 Fax No:

Report Format: X Standard

Project #: 17 475

PO#: 2001.11226

☐ TRRP

Analyze For:

☐ NPDES

PM@ctechenv.com Sampler Signature: U e-mail:

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(lab use o	DEMONIA			1	ļ			Prese	ervatio	n & #	of Co	ntaine	rs	Matrix												call)	
AB# (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered		O3 250,ml Poly	HCI	***************************************	NaOH Na:S:O:	Poly	ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Soild NP=Non-Potable Specify Other	TPH by TX 1005 8015B 8015M	Chloride	BIEX BY 60215									Rush 24 48 72 (Please call)	
1	MWZ	_	_	6/28/23	2:25	63	X	(X		ià.			G4			X										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					IVIIC	IIaII	u, re	zxas	. 191	01				Pro	ojec	t Nar	ne:_		SI	JBC	ON	ΓRΑC	СТ				{
	Company Name	PBEL															Pr	ojec	t #:_										
	Company Address:	1400 Rankin HWY														F	Proje	ect L	oc:										-
	City/State/Zip:	Midland Texas 797	01													•		PC) #: _										
	Telephone No:	432-661-4184				Fax No:										Rep	ort F	orm	at:]	X S	tanda	ard	[ТЕ	RRP			PDES	
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AB# (lab use only)			g Depth	epth	mpled	ımpled	pa	otal #. of Containers		poly 1	mL VOA AMBER 50	scorbic A			AMBER V	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid	-Potable Specify Other	BTEX 8021B TOTAL CALC										JR	RD
LAB#(lak	F	IELD CODE	Beginning Deoth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of (ICE	HNO _{3 250 poly 1}	HCI 3 40mL VOA H,SO, 1 AMBER	NaOH /A	Na ₂ S ₂ O ₃	NONE	NONE 3	DW=Drinkin _t GW = Groun	NP=Non-Pot	BTEX 8021										24 HOUR	STANDA
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	3F	29012-02			6/28/2023	14:30		3	х	2	Х					V	/	X											X
	3F	29012-03			6/28/2023	14:30		3	х		х					٧	<u> </u>	X									\perp		X
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10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656

July 10, 2023

Brent Barron Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland, TX 79706

Work Order: **HS23070256**

F: +1 281 530 5887

Laboratory Results for: 3F29012

Dear Brent Barron,

ALS Environmental received 4 sample(s) on Jul 07, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Anna Kinchen Project Manager

ALS Houston, US	Date:	10-Jul-23
-----------------	-------	-----------

Client: Permian Basin Environmental Lab, LP

Project: 3F29012 SAMPLE SUMMARY

Work Order: HS23070256

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23070256-01	3F29012-01	Water		28-Jun-2023 14:25	07-Jul-2023 09:40	
HS23070256-02	3F29012-02	Water		28-Jun-2023 14:30	07-Jul-2023 09:40	
HS23070256-03	3F29012-03	Water		28-Jun-2023 14:30	07-Jul-2023 09:40	
HS23070256-04	3F29012-04	Water		28-Jun-2023 14:35	07-Jul-2023 09:40	

Client: Permian Basin Environmental Lab, LP CASE NARRATIVE

Project: 3F29012 **Work Order:** HS23070256

Work Order Comments

Batch ID: R440835

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ANALYTICAL REPORT

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP

 Project:
 3F29012
 WorkOrder:HS23070256

 Sample ID:
 3F29012-01
 Lab ID:HS23070256-01

 Collection Date:
 28-Jun-2023 14:25
 Matrix:Water

Collection Date: 28-Jun-2023 14:25 Matrix:Water

REPORT DILUTION

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC
Benzene	ND		0.0050	mg/L	1	07-Jul-2023 17:31
Ethylbenzene	ND		0.0050	mg/L	1	07-Jul-2023 17:31
m,p-Xylene	ND		0.010	mg/L	1	07-Jul-2023 17:31
o-Xylene	ND		0.0050	mg/L	1	07-Jul-2023 17:31
Toluene	ND		0.0050	mg/L	1	07-Jul-2023 17:31
Xylenes, Total	ND		0.0050	mg/L	1	07-Jul-2023 17:31
Surr: 1,2-Dichloroethane-d4	105		70-126	%REC	1	07-Jul-2023 17:31
Surr: 4-Bromofluorobenzene	94.3		82-124	%REC	1	07-Jul-2023 17:31
Surr: Dibromofluoromethane	100		77-123	%REC	1	07-Jul-2023 17:31
Surr: Toluene-d8	106		82-127	%REC	1	07-Jul-2023 17:31

Project:

Sample ID:

ANALYTICAL REPORT

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP

3F29012

WorkOrder:HS23070256 3F29012-02 Lab ID:HS23070256-02

Collection Date: 28-Jun-2023 14:30 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC
Benzene	ND		0.0050	mg/L	1	07-Jul-2023 17:53
Ethylbenzene	ND		0.0050	mg/L	1	07-Jul-2023 17:53
m,p-Xylene	ND		0.010	mg/L	1	07-Jul-2023 17:53
o-Xylene	ND		0.0050	mg/L	1	07-Jul-2023 17:53
Toluene	ND		0.0050	mg/L	1	07-Jul-2023 17:53
Xylenes, Total	ND		0.0050	mg/L	1	07-Jul-2023 17:53
Surr: 1,2-Dichloroethane-d4	103		70-126	%REC	1	07-Jul-2023 17:53
Surr: 4-Bromofluorobenzene	93.7		82-124	%REC	1	07-Jul-2023 17:53
Surr: Dibromofluoromethane	99.0		77-123	%REC	1	07-Jul-2023 17:53
Surr: Toluene-d8	109		82-127	%REC	1	07-Jul-2023 17:53

ANALYTICAL REPORT

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP

 Project:
 3F29012
 WorkOrder:HS23070256

 Sample ID:
 3F29012-03
 Lab ID:HS23070256-03

 Collection Date:
 28-Jun-2023 14:30
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC
Benzene	ND		0.0050	mg/L	1	07-Jul-2023 18:16
Ethylbenzene	ND		0.0050	mg/L	1	07-Jul-2023 18:16
m,p-Xylene	ND		0.010	mg/L	1	07-Jul-2023 18:16
o-Xylene	ND		0.0050	mg/L	1	07-Jul-2023 18:16
Toluene	ND		0.0050	mg/L	1	07-Jul-2023 18:16
Xylenes, Total	ND		0.0050	mg/L	1	07-Jul-2023 18:16
Surr: 1,2-Dichloroethane-d4	104		70-126	%REC	1	07-Jul-2023 18:16
Surr: 4-Bromofluorobenzene	93.5		82-124	%REC	1	07-Jul-2023 18:16
Surr: Dibromofluoromethane	98.7		77-123	%REC	1	07-Jul-2023 18:16
Surr: Toluene-d8	108		82-127	%REC	1	07-Jul-2023 18:16

Project:

Sample ID:

ANALYTICAL REPORT

ALS Houston, US Date: 10-Jul-23

Client: Permian Basin Environmental Lab, LP

3F29012 WorkOrder:HS23070256 3F29012-04 Lab ID:HS23070256-04

Collection Date: 28-Jun-2023 14:35 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC
Benzene	ND		0.0050	mg/L	1	07-Jul-2023 18:38
Ethylbenzene	ND		0.0050	mg/L	1	07-Jul-2023 18:38
m,p-Xylene	ND		0.010	mg/L	1	07-Jul-2023 18:38
o-Xylene	ND		0.0050	mg/L	1	07-Jul-2023 18:38
Toluene	ND		0.0050	mg/L	1	07-Jul-2023 18:38
Xylenes, Total	ND		0.0050	mg/L	1	07-Jul-2023 18:38
Surr: 1,2-Dichloroethane-d4	105		70-126	%REC	1	07-Jul-2023 18:38
Surr: 4-Bromofluorobenzene	93.7		82-124	%REC	1	07-Jul-2023 18:38
Surr: Dibromofluoromethane	101		77-123	%REC	1	07-Jul-2023 18:38
Surr: Toluene-d8	109		82-127	%REC	1	07-Jul-2023 18:38

Client: Permian Basin Environmental Lab, LP

Project: 3F29012 DATES REPORT

WorkOrder: HS23070256

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R4408	35 (0) Test N	ame: VOLATILES - SW82600	,		Matrix: Water	
HS23070256-01	3F29012-01	28 Jun 2023 14:25			07 Jul 2023 17:31	1
HS23070256-02	3F29012-02	28 Jun 2023 14:30			07 Jul 2023 17:53	1
HS23070256-03	3F29012-03	28 Jun 2023 14:30			07 Jul 2023 18:16	1
HS23070256-04	3F29012-04	28 Jun 2023 14:35			07 Jul 2023 18:38	1

Client: Permian Basin Environmental Lab, LP

 Project:
 3F29012

 WorkOrder:
 HS23070256

QC BATCH REPORT

Batch ID: R440835 (0)	Ins	trument:	VOA9	Me	ethod: \	OLATILES	- SW8260C	
MBLK Sample ID:	VBLKW-230707		Units:	ug/L	Ana	alysis Date:	07-Jul-2023	13:02
Client ID:	R	Run ID: VOA	9_440835	SeqNo: 7	409148	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzene	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
o-Xylene	ND	5.0						
Toluene	ND	5.0						
Xylenes, Total	ND	5.0						
Surr: 1,2-Dichloroethane-d4	51.91	0	50	0	104	70 - 130		
Surr: 4-Bromofluorobenzene	48.02	0	50	0	96.0	82 - 115		
Surr: Dibromofluoromethane	49.72	0	50	0	99.4	73 - 126		
Surr: Toluene-d8	53.07	0	50	0	106	81 - 120		
LCS Sample ID:	VLCSW-230707		Units:	ug/L	Ana	alysis Date:	07-Jul-2023	12:17
Client ID:	R	Run ID: VOA	9_440835	SeqNo: 7	409147	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzene	21.26	5.0	20	0	106	74 - 120		
Ethylbenzene	21.3	5.0	20	0	107	77 - 117		
m,p-Xylene	44.94	10	40	0	112	77 - 122		
o-Xylene	22.42	5.0	20	0	112	75 - 119		
Toluene	21.76	5.0	20	0	109	77 - 118		
Xylenes, Total	67.35	5.0	60	0	112	75 - 122		
Surr: 1,2-Dichloroethane-d4	56.24	0	50	0	112	70 - 130		
Surr: 4-Bromofluorobenzene	52.1	0	50	0	104	82 - 115		
Surr: Dibromofluoromethane	54.38	0	50	0	109	73 - 126		
Surr: Toluene-d8	51.35	0	50	0	103	81 - 120		

Client: Permian Basin Environmental Lab, LP

 Project:
 3F29012

 WorkOrder:
 HS23070256

QC BATCH REPORT

MS	Sample ID:	HS23070249-01MS		Units:	ug/L	Ana	alysis Date:	07-Jul-2023	16:01
Client ID:		Rur	n ID: VOA9	_440835	SeqNo: 7	409156	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Benzene		20.9	5.0	20	0	104	70 - 127		
Ethylbenzene		22.29	5.0	20	0	111	70 - 124		
m,p-Xylene		45.92	10	40	0	115	70 - 130		
o-Xylene		22.35	5.0	20	0	112	70 - 124		
Toluene		22.33	5.0	20	0	112	70 - 123		
Xylenes, Total		68.27	5.0	60	0	114	70 - 130		
Surr: 1,2-Dichloroeth	ane-d4	50.11	0	50	0	100	70 - 126		
Surr: 4-Bromofluorob	penzene	49.54	0	50	0	99.1	82 - 124		
Surr: Dibromofluoron	nethane	49.61	0	50	0	99.2	77 - 123		
Surr: Toluene-d8		56.11	0	50	0	112	82 - 127		
MSD	Sample ID:	HS23070249-01MSE)	Units:	ug/L	Ana	alysis Date:	07-Jul-2023	16:24
Client ID:		Rur	n ID: VOA9	_440835	SeqNo: 7	409157	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Benzene		20.42	5.0	20	0	102	70 - 127	20.9	2.31 20
		21.97	5.0	20	0	110	70 - 124	22.29	1.44 20
Ethylbenzene		45.74		40	0	114	70 - 130	45.92	0.444 20
Ethylbenzene m,p-Xylene		45.71	10	40					1.09 20
•		22.11	5.0	20	0	111	70 - 124	22.35	
m,p-Xylene					0	111 107	70 - 124 70 - 123	22.35 22.33	4.03 20
m,p-Xylene o-Xylene		22.11	5.0	20					4.03 20 0.653 20
m,p-Xylene o-Xylene Toluene	ane-d4	22.11 21.44	5.0 5.0	20	0	107	70 - 123	22.33	0.653 20
m,p-Xylene o-Xylene Toluene Xylenes, Total		22.11 21.44 67.82	5.0 5.0 5.0	20 20 60	0	107 113	70 - 123 70 - 130	22.33	0.653 20 0.147 20
m,p-Xylene o-Xylene Toluene Xylenes, Total Surr: 1,2-Dichloroeth	penzene	22.11 21.44 67.82 50.18	5.0 5.0 5.0	20 20 60 50	0 0	107 113 100	70 - 123 70 - 130 70 - 126	22.33 68.27 50.11	0.653 20 0.147 20 2.12 20

ALS Houston, US 10-Jul-23 Date:

Permian Basin Environmental Lab, LP Client: QUALIFIERS, 3F29012 **Project:** ACRONYMS, UNITS

WorkOrder: HS23070256

Workorder.	11020070230
Qualifier	Description
*	Value exceeds Regulatory Limit
а	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
Р	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL
Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample

Duplicate

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample
MBLK	Method Blank

MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike

IVIS	машх эрке
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution

SD	Geriai Dilution
SDL	Sample Detection Limit

gram

Unit Reported Description Milligrams per Liter mg/L

ALS Houston, US Date: 10-Jul-23

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 10-Jul-23 Sample Receipt Checklist Work Order ID: HS23070256 Date/Time Received: 07-Jul-2023 09:40 **Client Name:** Permian Basin Lab Received by: Paresh M. Giga Completed By: /S/ Ragen Giga 07-Jul-2023 10:57 Reviewed by: /S/ Anna Kinchen 10-Jul-2023 09:59 Date/Time Date/Time eSignature eSignature Matrices: water Carrier name: FedEx Priority Overnight Not Present Shipping container/cooler in good condition? Yes No Not Present Custody seals intact on shipping container/cooler? Yes No Not Present Custody seals intact on sample bottles? Yes No Not Present VOA/TX1005/TX1006 Solids in hermetically sealed vials? No Yes 1 Page(s) Chain of custody present? Yes No Chain of custody signed when relinquished and received? Yes No Yes No Samplers name present on COC? Yes No Chain of custody agrees with sample labels? Yes No Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes 🗸 No Container/Temp Blank temperature in compliance? Temperature(s)/Thermometer(s): 5.8uc/5.7c IR31 Cooler(s)/Kit(s): Red Date/Time sample(s) sent to storage: 07/07/2023 11:30 Yes Water - VOA vials have zero headspace? No VOA vials submitted No Water - pH acceptable upon receipt? Yes No N/A ~ pH adjusted? No N/A Yes pH adjusted by: Login Notes: Client Contacted: Date Contacted: Person Contacted: Contacted By: Regarding: Comments:

Corrective Action:

PBBLAB Project Manager: Brent Barron

Company Name

City/State/Zip:

Telephone No:

ORDER#:

AB # (lab use only)

Sampler Signature: N/A

PBEL

FIELD CODE

3F29012-01

3F29012-02

3F29012-03

3F29012-04

N16-5

Midland Texas 79701

eginning Depth

nding Depth

432-661-4184

Company Address: 1400 Rankin HWY

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Fax No:

e-mail:

Time Sampled

14:25

14:30

14:30

14:35

Date Sampled

6/28/2023

6/28/2023

6/28/2023

6/28/2023

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

brentbarron@phelab.com

Preservation & # of Containers

500/250POLY

ICI 3 40mL VOA

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1 you use FON!

otal #. of Container:

3

3

3

etd Filtered

4aOH /Ascorbic Acid 250ML Po

Va₂S₂O₃

HS23070256

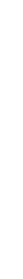
Permian Basin Environmental Lab, LP

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SPECIAL IN	STRUCTIONS: <u>REPORT TO MOL</u>	RUN REGARDL	ESS OF HOLD	TIME //			Laborat Sample VOCs Fo	Contac ee of I	ners la leads:	ntact?			Y	N	
Relinquishe Brent Barro	•	7 6 23	Time	Received by 7/7/23 09:40	Date		Labels of Custody Custody	r seals (on con	rtainer(5}		Y	N	
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

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

Project: LIVINGSTON LINE
Project Number: 17475
Location: Rural Lea County, NM

Lab Order Number: 3I21017



Current Certification

Report Date: 09/26/23

13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Joel Lowry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW2	3I21017-01	Water	09/20/23 08:00	09-21-2023 13:48
MW3	3I21017-02	Water	09/20/23 09:00	09-21-2023 13:48
MW5	3I21017-03	Water	09/20/23 10:00	09-21-2023 13:48
MW6	3I21017-04	Water	09/20/23 11:00	09-21-2023 13:48

13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Joel Lowry

MW2 3I21017-01 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Pe	ermian B	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:22	09/23/23 07:13	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:22	09/23/23 07:13	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:13	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.2 %	80-120		P3I2207	09/22/23 13:22	09/23/23 07:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	80-120		P3I2207	09/22/23 13:22	09/23/23 07:13	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Joel Lowry

MW3 3I21017-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental l	Lab, L.P.			
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:22	09/23/23 07:37	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:22	09/23/23 07:37	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:37	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:37	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:37	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:37	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 07:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.6 %	80-120		P3I2207	09/22/23 13:22	09/23/23 07:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.9 %	80-120		P3I2207	09/22/23 13:22	09/23/23 07:37	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Joel Lowry

MW5 3I21017-03 (Water)

			·					_	
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		D	mmian D	acin Envi	ronmental I	ah I D			
		1,	ci iiiiaii D	asın Envi	ommentai 1	1au, 1.1.			
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:22	09/23/23 08:46	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:22	09/23/23 08:46	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 08:46	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 08:46	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 08:46	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 08:46	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 08:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.9 %	80-120		P3I2207	09/22/23 13:22	09/23/23 08:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	80-120		P3I2207	09/22/23 13:22	09/23/23 08:46	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Joel Lowry

MW6 3I21017-04 (Water)

	_		·			_		_	
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		D.	aumian D	asin Envis	uonmontal I	ah I D			
		r	eriiian da	asın envi	ronmental I	ab, L.F.			
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:22	09/23/23 09:09	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:22	09/23/23 09:09	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 09:09	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 09:09	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 09:09	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 09:09	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2207	09/22/23 13:22	09/23/23 09:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.9 %	80-120		P3I2207	09/22/23 13:22	09/23/23 09:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %	80-120		P3I2207	09/22/23 13:22	09/23/23 09:09	EPA 8021B	

13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Joel Lowry

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 P312207 - *** DEFAULT PREP **	*									
Blank (P3I2207-BLK1)				Prepared: 0)9/22/23 Aı	nalyzed: 09	/23/23			
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	0.113		"	0.120		94.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	80-120			
LCS (P312207-BS1)				Prepared: 0)9/22/23 Aı	nalyzed: 09	/23/23			
Benzene	0.0959	0.00100	mg/L	0.100		95.9	80-120			
Toluene	0.0907	0.00100	"	0.100		90.7	80-120			
Ethylbenzene	0.0931	0.00100	"	0.100		93.1	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.0	80-120			
Xylene (o)	0.0807	0.00100	"	0.100		80.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	80-120			
LCS Dup (P3I2207-BSD1)				Prepared: 0)9/22/23 Aı	nalyzed: 09	/23/23			
Benzene	0.0904	0.00100	mg/L	0.100		90.4	80-120	5.84	20	
Toluene	0.0866	0.00100	"	0.100		86.6	80-120	4.56	20	
Ethylbenzene	0.0890	0.00100	"	0.100		89.0	80-120	4.44	20	
Xylene (p/m)	0.177	0.00200	"	0.200		88.7	80-120	3.61	20	
Xylene (o)	0.0800	0.00100	"	0.100		80.0	80-120	0.809	20	
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	80-120			
Calibration Blank (P3I2207-CCB1)				Prepared: 0)9/22/23 Aı	nalyzed: 09	/23/23			
Benzene	0.180		ug/l							<u> </u>
Toluene	0.150		"							
Ethylbenzene	0.0800		"							
Xylene (p/m)	0.160		"							
Xylene (o)	0.100		"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.8	80-120			

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Joel Lowry

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 P3I2207 - *** DEFAULT PREP ***										
Calibration Blank (P3I2207-CCB2)				Prepared: 0	09/22/23 At	nalyzed: 09	/23/23			
Benzene	0.170		ug/l							
Toluene	0.160		"							
Ethylbenzene	0.140		"							
Xylene (p/m)	0.100		"							
Xylene (o)	0.220		"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	80-120			
Calibration Check (P3I2207-CCV1)				Prepared: 0	09/22/23 At	nalyzed: 09	/23/23			
Benzene	0.0903	0.00100	mg/L	0.100		90.3	80-120			
Toluene	0.0953	0.00100	"	0.100		95.3	80-120			
Ethylbenzene	0.0993	0.00100	"	0.100		99.3	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.0937	0.00100	"	0.100		93.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	80-120			
Calibration Check (P3I2207-CCV2)				Prepared: 0	09/22/23 At	nalyzed: 09	/23/23			
Benzene	0.0874	0.00100	mg/L	0.100		87.4	80-120			
Toluene	0.0914	0.00100	"	0.100		91.4	80-120			
Ethylbenzene	0.0947	0.00100	"	0.100		94.7	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.0	80-120			
Xylene (o)	0.0906	0.00100	"	0.100		90.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	80-120			
Calibration Check (P3I2207-CCV3)				Prepared: 0)9/22/23 Aı	nalyzed: 09	/23/23			
Benzene	0.0856	0.00100	mg/L	0.100		85.6	80-120			
Toluene	0.0900	0.00100	"	0.100		90.0	80-120			
Ethylbenzene	0.0928	0.00100	"	0.100		92.8	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		96.0	80-120			
Xylene (o)	0.0882	0.00100	"	0.100		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	80-120			

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13000 West County Road 100 Odessa TX, 79765

Surrogate: 1,4-Difluorobenzene

Project: LIVINGSTON LINE

Project Number: 17475 Project Manager: Joel Lowry

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

	.	Reporting	** **	Spike	Source	A/DEG	%REC	DDD	RPD	N
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3I2207 - *** DEFAULT PREP ***										
Matrix Spike (P3I2207-MS1)	Sou	rce: 3I21016-0)2	Prepared: ()9/22/23 A	nalyzed: 09	/23/23			
Benzene	0.0957	0.00100	mg/L	0.100	ND	95.7	80-120			
Toluene	0.0895	0.00100	"	0.100	ND	89.5	80-120			
Ethylbenzene	0.0909	0.00100	"	0.100	ND	90.9	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200	ND	89.4	80-120			
Xylene (o)	0.0778	0.00100	"	0.100	ND	77.8	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	80-120			
Matrix Spike Dup (P3I2207-MSD1)	Sou	rce: 3I21016-0)2	Prepared: ()9/22/23 A	nalyzed: 09	/23/23			
Benzene	0.0939	0.00100	mg/L	0.100	ND	93.9	80-120	1.84	20	
Toluene	0.0877	0.00100	"	0.100	ND	87.7	80-120	2.03	20	
Ethylbenzene	0.0897	0.00100	"	0.100	ND	89.7	80-120	1.35	20	
Xylene (p/m)	0.177	0.00200	"	0.200	ND	88.5	80-120	0.956	20	
Xylene (o)	0.0769	0.00100	"	0.100	ND	76.9	80-120	1.15	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	80-120			

0.120

94.5

80-120

0.113

13000 West County Road 100 Odessa TX, 79765 Project: LIVINGSTON LINE

Project Number: 17475
Project Manager: Joel Lowry

Notes and Definitions

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.

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	Darron			
Report Approved By:			Date:	9/26/2023	

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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MWZ			-	9/20/23	9:00	+	3			X	+	+	+		GW	+	+	V	+	+	H	+	+	H	+	H	H	Ž
3 MWS				9/20/23	10,00	+	3	100		X	+	+			GW	/	†	Ý		+	H	+		H	+	H	1	X
4 MNb				9/20/23	11:00		3	X		X	1	-			GW	T	F	X		1	П	1		П	+			<
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Pace Analytical® ANALYTICAL REPORT

January 11, 2024





Ss

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Plains All American Pipeline - ETECH

Sample Delivery Group: L1691043 Samples Received: 12/22/2023

Project Number: SRS #2001-11226

Description: Livingston Line - Bob McCasland

Site: SRS #2001-11226

Report To: Kimble Thrash

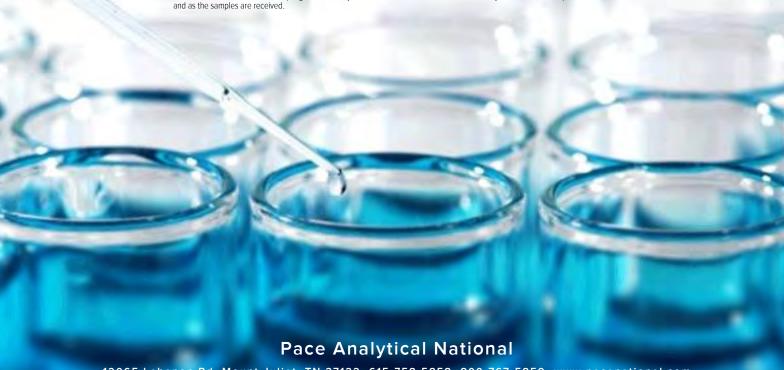
PO Box 62228

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,



Sc: Sample Chain of Custody

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
MW-2 L1691043-01	5
MW-3 L1691043-02	6
MW-5 L1691043-03	7
MW-6 L1691043-04	8
MW-7 L1691043-05	9
TRIP BLANK L1691043-06	10
Qc: Quality Control Summary	11
Volatile Organic Compounds (GC) by Method 8021B	11
GI: Glossary of Terms	13
Al: Accreditations & Locations	14
Sc: Sample Chain of Custody	15





















SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
MW-2 L1691043-01 GW			Kimble Thrash	12/20/23 12:15	12/22/23 08:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (GC) by Method 8021B	WG2199269	1	01/02/24 13:07	01/02/24 13:07	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2200833	1	01/05/24 01:46	01/05/24 01:46	NCD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW-3 L1691043-02 GW			Kimble Thrash	12/20/23 13:15	12/22/23 08:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (GC) by Method 8021B	WG2199269	1	01/02/24 13:30	01/02/24 13:30	ACG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW-5 L1691043-03 GW			Kimble Thrash	12/20/23 15:30	12/22/23 08:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (GC) by Method 8021B	WG2199269	1	01/02/24 13:52	01/02/24 13:52	ACG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW-6 L1691043-04 GW			Kimble Thrash	12/20/23 14:10	12/22/23 08:	000
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Valatila Ovennia Companyada (CC) hu Mathad 0031D	WG2199269	1	01/02/24 14:15	date/time	ACG	Ma Julioa TNI
Volatile Organic Compounds (GC) by Method 8021B	WG2199269	I	01/02/24 14:15	01/02/24 14:15	ACG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW-7 L1691043-05 GW			Kimble Thrash	12/20/23 15:31	12/22/23 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2199269	1	01/02/24 14:38	01/02/24 14:38	ACG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
TRIP BLANK L1691043-06 GW			Kimble Thrash	12/20/23 00:00	12/22/23 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location



















Volatile Organic Compounds (GC) by Method 8021B

WG2199269

date/time

1

01/02/24 12:21

date/time

01/02/24 12:21

ACG

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

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1691043-02	<u>MW-3</u>	8021B
L1691043-03	<u>MW-5</u>	8021B

Collected date/time: 12/20/23 12:15

SAMPLE RESULTS - 01

L1691043

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	0.000680		0.000190	0.000500	1	01/02/2024 13:07	WG2199269
Toluene	U	Q	0.000412	0.00100	1	01/05/2024 01:46	WG2200833
Ethylbenzene	U		0.000160	0.000500	1	01/02/2024 13:07	WG2199269
Total Xylene	0.00274		0.000510	0.00150	1	01/02/2024 13:07	WG2199269
(S) a,a,a-Trifluorotoluene(PID)	98.1			79.0-125		01/02/2024 13:07	WG2199269
(S) a,a,a-Trifluorotoluene(PID)	97.4			79.0-125		01/05/2024 01:46	WG2200833



















Collected date/time: 12/20/23 13:15

Page 94 of 104

SAMPLE RESULTS - 02

L1691043

	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	01/02/2024 13:30	WG2199269
Toluene	U		0.000412	0.00100	1	01/02/2024 13:30	WG2199269
Ethylbenzene	U		0.000160	0.000500	1	01/02/2024 13:30	WG2199269
Total Xylene	U		0.000510	0.00150	1	01/02/2024 13:30	WG2199269
(S) a,a,a-Trifluorotoluene(PID)	95.3			79.0-125		01/02/2024 13:30	WG2199269



















Collected date/time: 12/20/23 15:30

Page 95 of 104

SAMPLE RESULTS - 03

L1691043

	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	01/02/2024 13:52	WG2199269
Toluene	U		0.000412	0.00100	1	01/02/2024 13:52	WG2199269
Ethylbenzene	U		0.000160	0.000500	1	01/02/2024 13:52	WG2199269
Total Xylene	U		0.000510	0.00150	1	01/02/2024 13:52	WG2199269
(S) a.a.a-Trifluorotoluene(PID)	96.5			79.0-125		01/02/2024 13:52	WG2199269



















Collected date/time: 12/20/23 14:10

Page 96 of 104

SAMPLE RESULTS - 04

L1691043

	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	01/02/2024 14:15	WG2199269	
Toluene	U		0.000412	0.00100	1	01/02/2024 14:15	WG2199269	
Ethylbenzene	U		0.000160	0.000500	1	01/02/2024 14:15	WG2199269	
Total Xylene	U		0.000510	0.00150	1	01/02/2024 14:15	WG2199269	
(S) a,a,a-Trifluorotoluene(PID)	96.7			79.0-125		01/02/2024 14:15	WG2199269	



















Collected date/time: 12/20/23 15:31

Page 97 of 104

SAMPLE RESULTS - 05

L1691043

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	0.000845		0.000190	0.000500	1	01/02/2024 14:38	WG2199269
Toluene	U		0.000412	0.00100	1	01/02/2024 14:38	WG2199269
Ethylbenzene	U		0.000160	0.000500	1	01/02/2024 14:38	WG2199269
Total Xylene	U		0.000510	0.00150	1	01/02/2024 14:38	WG2199269
(S) a,a,a-Trifluorotoluene(PID)	94.4			79.0-125		01/02/2024 14:38	WG2199269



















Collected date/time: 12/20/23 00:00

Page 98 of 104

SAMPLE RESULTS - 06

L1691043

	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	01/02/2024 12:21	WG2199269	
Toluene	U		0.000412	0.00100	1	01/02/2024 12:21	WG2199269	
Ethylbenzene	U		0.000160	0.000500	1	01/02/2024 12:21	WG2199269	
Total Xylene	U		0.000510	0.00150	1	01/02/2024 12:21	WG2199269	
(S) a,a,a-Trifluorotoluene(PID)	96.3			79.0-125		01/02/2024 12:21	WG2199269	



















QUALITY CONTROL SUMMARY

Page 99 of 104

Volatile Organic Compounds (GC) by Method 8021B

L1691043-01,02,03,04,05,06

Method Blank (MB)

(MB) R4019625-3 01/02/	24 11:02			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	96.2			79.0-125







Laboratory Control Sample (LCS)

(LCS) R4019625-1 01/02/	CS) R4019625-1 01/02/24 09:54							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/l	mg/l	%	%				
Benzene	0.0500	0.0479	95.8	77.0-122				
Toluene	0.0500	0.0460	92.0	80.0-121				
Ethylbenzene	0.0500	0.0494	98.8	80.0-123				
Total Xylene	0.150	0.143	95.3	47.0-154				
(S) a,a,a-Trifluorotoluene(PID)			94.8	79.0-125				







QUALITY CONTROL SUMMARY

Page 100 of 104

L1691043-01

Volatile Organic Compounds (GC) by Method 8021B

Method Blank (MB)

(MB) R4020384-3 01/05/	/24 01:23			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Toluene	U		0.000412	0.00100
(S) a.a.a-Trifluorotoluene(PID)	97.8			79.0-125

[†]Cn

Laboratory Control Sample (LCS)

(LCS) R4020384-1 01/04/	24 22:09				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Toluene	0.0500	0.0430	86.0	80.0-121	
(S) a,a,a-Trifluorotoluene(PID)			95.3	79.0-125	











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

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

Qualifier Description

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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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 14	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



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

TN00003

EPA-Crypto



















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

12/22/23 08:00

NCF / OK

Time:

Relinquished by : (Signature)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 328422

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	328422
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Monitoring Report: Content Satisfactory 1. Gauge and conduct quarterly sampling events for wells: MW-2, MW-3, MW-5 and MW-6 for BTEX. 2. On an annual basis, conduct sampling & gauging for MW-7, MW-8, MW-10, and MW-11 as prescribed. 3. Conduct AFR events to prevent the down-gradient migration of dissolved phase/free-phase plume 4. Submit the 2024 annual report to OCD by April 1, 2025.	7/3/2024