REVIEWED
By Mike Buchanan at 11:01 am, Jul 26, 2023

Review of the 2022 Annual Groundwater Report: **Content Satisfactory**
1. Continue groundwater monitoring on a quarterly basis for all site monitoring wells.
2. Continue off-site monitoring for Goff Dairy and JW House locations.
3. Inspect and replace ORC filter socks as necessary in MW-3R, MW-1R, MW-2R, MW-4R, MW-12.
4. Install an ORC sock in MW-5R.
5. Submit the 2023 Annual Groundwater Report by April 1, 2024.

2022 Annual Groundwater Monitoring Report

Lovington Gathering WTI
Plains SRS #2006-142
Lea County, New Mexico
NMOCD Abatement Plan No. AP-96
Incident ID # nAPP2108928398

Plains Pipeline, L.P.

March 15, 2023

→ **The Power of Commitment**

Contents

Table index

Figure index

Appendices

1. Introduction

GHD Services Inc. (GHD), on behalf of Plains Pipeline, L.P. (Plains) submits this *2022 Annual Groundwater Monitoring Report* in compliance with New Mexico Oil Conservation Division requirements. This report provides the quarterly results of groundwater sampling events and remediation activities at Lovington Gathering WTI (Site) during 2022. Quarterly groundwater monitoring events were performed on February 7 - 8, 2022, May 11, 2022, August 9 - 10, 2022, and November 21, 2022.

1.1 Site History

This Site is located approximately 6.5 miles southeast of Lovington and in the SE ¼, NE ¼, Section 6, Township 17 South, Range 37 East in Lea County, New Mexico. The coordinates of this Site are 32.8649° N and 103.2853°W. The pasture affected by the release is owned by Mr. Robert Rice. The location of the Site is shown on Figure 1. A detailed map of the Site is provided on Figure 2.

A crude oil release occurred on April 21, 2006, during purging of the Plains 6-inch Lovington Gathering WTI Pipeline and resulted due to internal corrosion. At the time the Release was discovered, it was estimated approximately 12 barrels (bbls) of crude oil were released with a surface impact extent of approximately 1,500 square feet (ft^2). On April 26, 2006, an Initial Release Notification and Corrective Action, Form C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) and was assigned Abatement Plan (AP) No. AP-96. A copy of the Release Notification and Corrective Action, Form C-141 is attached as Appendix A. Remedial action began the same day with approximately eight (8) bbls of crude oil being recovered. Basin Environmental Service Technologies, LLC (Basin) was notified by Plains to respond, repair the pipeline, and excavate impacted soil. The pipeline was repaired using a clamp, and visually stained soil was excavated and placed on plastic sheeting. Excavation activities during the response and subsequent remediation of the Site covered an area approximately 30 feet (ft.) long by 27 ft. wide and approximately 5 - 6 ft. below ground surface (bgs). On April 21, 2006, Basin assumed project management and was responsible for the Site's groundwater remediation responsibilities. GHD assumed Site groundwater project management and remediation responsibilities on October 1, 2016. Results of groundwater monitoring events prior to October 1, 2016, were provided by Plains.

Currently, the Site has a network of 12 groundwater monitoring wells (MW-1R, MW-2R, MW-3R, MW4R, MW-5R, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, and MW-12), which are monitored quarterly to delineate the extent and evaluate the concentrations of contaminants of concern (COC) in impacted groundwater. All Site monitoring wells were installed with NMOCD approval. The COCs are benzene, toluene, ethylbenzene, and total xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAH), which includes benzo(a)pyrene, total naphthalene, and combined monomethylnapthalenes (1-methylnapthalenes and 2-methylnapthalenes). Past assessment and clean-up activities have included monitoring well installation resulting in the 12 groundwater monitoring wells as the Site. Seven (7) monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7) were installed in 2006. Two (2) monitoring wells (MW-8 and MW-9) were installed in 2007. One (1) monitoring well (MW-10) was installed in 2009.

On September 17, 2018, GHD provided oversight of the plugging and abandonment of five (5) monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5. On September 19, 2018, GHD provided oversight of the drilling and installation of five (5) monitoring wells (MW-1R, MW-2R, MW-3R, MW-4R, and MW-5R) to maintain plume delineation. Additionally, two (2) monitoring wells (MW-11 and MW-12) were drilled and installed to further delineate down-gradient groundwater conditions of the Site's southern area. A detailed map of the Site with the monitoring well locations depicted is provided on Figure 2.

On May 27, 2020, an oxygen emitter system was installed in monitoring well MW-12 to enhance natural attenuation of the BTEX contaminants of concern (COCs). In April 2021, Oxygen Releasing Compound (ORC) filter socks were installed in monitoring wells MW-1R, MW-2R, and MW-4R to enhance natural attenuation of the BTEX COCs reported in the groundwater. On July 28, 2022, the oxygen emitter system was removed and replaced with an ORC filter sock.

2. Regulatory Framework

The NMOCD has regulatory jurisdiction over oil and gas production operations and remediation of spills of crude oil in the State of New Mexico. NMOCD Groundwater Delineation and Remediation guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards as outlined in the New Mexico Administration Code 20.6.2.3103 Section A. The main COCs in the Site's impacted groundwater are BTEX and PAH. In this Report, groundwater analytical results for the main COCs are compared to the NMWQCC standards. For PAH compounds with an undefined NMWQCC standard, the NMOCD requires a concentration of 0.001 milligram per Liter (mg/L) or less.

Table 1 NMWQCC Human Health Standards

Contaminants of Concern	Standards
Benzene	0.01 mg/L
Toluene	0.75 mg/L
Ethylbenzene	0.75 mg/L
Total Xylenes	0.62 mg/L
Benzo(a)pyrene	0.0002 mg/L
Total Naphthalene, 1-Monomethylnaphthalene, and 2-Monomethylnapthalene	0.03 mg/L

3. Groundwater Monitoring

3.1 Methodology of Groundwater Monitoring

The Site's groundwater conditions were monitored quarterly during 2022. The four (4) monitoring well gauging, purging, and sampling events were conducted on February 7 - 8, 2022, May 11, 2022, August 9 - 10, 2022, and November 21, 2022. Prior to each event's gauging activity, the ORC socks installed in monitoring wells MW-1R, MW-2R, MW-4R, and the oxygen emitter system in MW-12, which was replaced with an ORC sock on July 28, 2022, were removed and the water level was allowed to stabilize. Static fluid levels were gauged with an electronic oil-water interface probe to the nearest hundredth of a foot and recorded. Site monitoring wells having a measurable thickness (>0.01 ft.) of light non-aqueous phase liquid (LNAPL) were not purged and sampled. The measured depths to groundwater and calculated groundwater elevations for 2022 are provided in Table 1. All non-disposable groundwater gauging equipment was decontaminated with Alconox® and potable water; rinsed with potable water; and rinsed again with deionized water prior to gauging and between wells.

Hand-bailing, using clean disposable polyvinyl chloride (PVC) bailers, was used to purge groundwater from each well. The hand-bailing process continued until three (3) well water column volumes of groundwater were removed.

After purging each monitoring well, a sample of groundwater was collected using the PVC bailer. Laboratory-supplied sample containers were filled directly from the PVC bailer. The collected samples were labeled with corresponding well information and immediately placed on ice in insulated coolers and chilled to approximately 4 degrees Celsius (°C) (40 degrees Fahrenheit [°F]). Included in the cooler for quality assurance and quality control (QA/QC) were Duplicate and Trip Blank samples. Proper chain-of-custody documentation accompanied samples to Pace Analytical Laboratory in Mt. Juliet, Tennessee. Samples collected for each quarterly monitoring event were submitted for analysis of BTEX by Environmental Protection Agency (EPA) Method SW846-8021B.

During the fourth quarterly monitoring event, monitoring wells which had not previously met the criteria of two (2) consecutive years of PAH compounds below the NMWQCC standards and below 0.001 mg/L for PAH compounds with an undefined NMWQCC standard were analyzed for PAH by EPA Method SW846-8270C-SIM, as required by the NMOCD. No monitoring well groundwater sample was submitted for analysis of PAH. Purged water recovered during the monitoring events was disposed of in the Site's above-ground storage tank (AST) pending disposal. Purge water was periodically transported off-Site to and disposed of at a NMOCD-approved disposal facility as directed by Plains. Disposal records are available upon request.

When operating and accessible during the quarterly events, GHD conducted groundwater sampling of the off-Site Goff Dairy Well, the Goff Dairy Center Pivot Irrigation System, and the JW House Well. During the monitoring event conducted on February 7 - 8, 2022, no groundwater samples were collected from the Goff Dairy Well and the center pivot irrigation system due to both not being in operation. The JW House Well was also not sampled due to the property being vacant and inaccessible from a closed and locked gate. On February 21, 2022, the Goff Dairy Center Pivot Irrigation System was operating, and samples were collected from the irrigation system's center pivot well and from locations at the center and end of the center pivot's span. A sample from the Goff Dairy Well was not collected on February 21, 2022, due to saturated ground surface conditions around the well. During the May monitoring event, no groundwater samples were collected from any off-Site location. During the August and November monitoring events, groundwater samples were collected from the four (4) Goff Dairy sample locations and from the JW House Well. For the Goff Dairy Well and JW House Well, sampling consisted of opening each well's respective spigot and allowing water to purge for a minimum of 30 seconds prior to collecting the sample. For the Goff Dairy Center Pivot Irrigation System, samples were collected from the sprinklers located at the beginning (near center of crop circle), at the middle, and at the end of the span. The Goff Dairy Well and JW House Well locations are depicted on Figure 2.

3.2 The Potentiometric Surface and Gradient

The direction of groundwater flow was generally southeast during the quarterly gauging events. The average gradient of the potentiometric surface during 2022 was 0.008 feet/foot (ft./ft.), which indicates an average decrease of 0.005 ft./ft. between November 2021 and November 2022. Magnitudes and directions of these gradients were similar to those recorded during previous monitoring events. Measured depths to groundwater and calculated elevations of the potentiometric surface recorded during 2022 are provided in Table 1.

All monitoring wells exhibited net declines of the elevations of the potentiometric surface between November 2021 and November 2022. The annual evaluation of the potentiometric surface indicated groundwater elevations have declined an average of 0.73 ft. over the period. The changes in the groundwater gradients and levels may be attributed to seasonal weather fluctuations and operation of the Goff Diary Center Pivot Irrigation System located adjacent and to the southwest of the Site. Potentiometric surface maps for the quarterly monitoring events are depicted on Figure 3, Figure 4, Figure 5, and Figure 6. A summary of the Site's groundwater gauging and elevation data collected from 2017 through 2022 are tabulated in Table 1.

3.3 Presence of Light Non-Aqueous Phase Liquids (LNAPL)

No measurable thickness of LNAPL was found in the Site's monitoring wells during the respective quarterly monitoring events.

3.4 Dissolved-Phase Hydrocarbons in Groundwater

All BTEX analytical results for the quarterly groundwater sampling events were compared to the NMWQCC Human Health Standard criteria. The analytical results for the on-Site monitoring wells, off-Site wells, and center pivot irrigation system's span sample locations for each respective quarterly sampling event are included in Table 2. Maps depicting analytical results are provided as Figure 7, Figure 8, Figure 9, and Figure 10.

3.4.1 First Quarter Summary

GHD conducted the first quarterly groundwater gauging, purging, and sampling event on February 7 - 8, 2022. Monitoring wells MW-6, MW-8, and MW-10 were gauged dry. Groundwater samples were collected from monitoring wells MW-1R, MW-2R, MW-3R, MW-4R, MW-5R, MW-7, MW-9, MW-11, and MW-12. Approximately 84 gallons of groundwater were purged and disposed of in the on-Site AST. Analytical results indicated a benzene concentration above 0.01 mg/L in monitoring wells MW-1R, MW-2R, MW-4R, and MW-12. The analytical results indicated toluene, ethylbenzene, or total xylenes concentrations were below the NMWQCC criteria for each respective sample. Analytical results for the initial and field duplicate samples collected from monitoring well MW-4R were not significantly different. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

Groundwater samples were collected from the Goff Dairy Center Pivot Irrigation System's span on February 21, 2022. Analytical results indicated no BTEX concentrations above the NMWQCC criteria. The Goff Dairy Well was not sampled due saturated ground surface conditions around the well and the JW House Well was not sampled due to the property being vacant and inaccessible because of a closed and locked gate.

3.4.2 Second Quarter Summary

GHD conducted the second quarterly groundwater gauging, purging, and sampling event on May 11, 2022. Monitoring wells MW-6, MW-8, and MW-10 were gauged dry. Groundwater samples were collected from monitoring wells MW-1R, MW-2R, MW-3R, MW-4R, MW-5, MW-7, MW-9, MW-11, and MW-12. Approximately 47 gallons of groundwater were purged and disposed of in the on-Site AST. Analytical results indicated benzene concentrations above 0.01 mg/L in MW-2R, MW-4R, and MW-12. The analytical results indicated toluene, ethylbenzene, or total xylene concentrations were below NMWQCC criteria for each respective sample. No field duplicate sample was collected during the event. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

No samples were collected for the Goff Dairy Well and the three (3) Center Pivot Irrigation System's span locations because the well and system were not in operation. The JW House Well was not sampled due to the property being vacant and inaccessible because of a closed and locked gate.

3.4.3 Third Quarter Summary

GHD conducted the third quarterly groundwater gauging, purging, and sampling event on August 9 - 11, 2022. Monitoring wells MW-6, MW-8, and MW-10 were gauged dry. Groundwater samples were collected from monitoring wells MW-1R, MW-2R, MW-3R, MW-4R, MW-5, MW-7, MW-9, MW-11, and MW-12. Approximately 126 gallons of groundwater were purged and disposed of in the on-Site AST. Analytical results indicated benzene concentrations above 0.01 mg/L in monitoring wells MW-2R, MW-4R, MW-5R, and MW-12. Upon review of the laboratory analytical report, it was determined monitoring wells MW-5R and MW-12 had been analyzed beyond the 14-day Hold Time. Since monitoring well MW-12 is located along the Site's southern property line and its analytical results considered critical information, the well was resampled on September 13, 2022. The analytical results of the sample collected from monitoring well MW-12 on September 13, 2022, indicated a benzene concentration above 0.01 mg/L. The analytical results indicated toluene, ethylbenzene, or total xylene concentrations were below NMWQCC criteria for each respective sample. No field duplicate sample was collected during the event. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

Groundwater samples were collected from the Goff Diary Well and the three (3) Goff Dairy Center Pivot Irrigation System's span locations due to the well and irrigation system being in operation. The analytical results for each respective sample indicated BTEX concentrations were below NMWQCC criteria. A groundwater sample was collected from the JW House Well due to the property having improvements for stabling, feeding, and watering horses. The sample's analytical results indicated BTEX concentrations were below NMWQCC criteria.

3.4.4 Fourth Quarter Summary

GHD conducted the fourth quarterly groundwater gauging, purging, and sampling event on November 21, 2022. Monitoring wells MW-6, MW-8, and MW-10 were gauged dry. Groundwater samples were collected from monitoring wells MW-1R, MW-2R, MW-3R, MW-4R, MW-5, MW-7, MW-9, MW-11, and MW-12. Approximately 40 gallons of groundwater were purged and disposed of in the on-Site AST. Analytical results indicated benzene concentrations above 0.01 mg/L in monitoring wells MW-2R, MW-3R, MW-4R, MW-5R, and MW-12. Analytical results indicated toluene, ethylbenzene, or total xylenes concentrations were below the NMWQCC criteria for each respective sample. Results for the analyses of the initial and field duplicate groundwater samples collected at MW-12 indicates a relative percent difference of 28%; however, both samples were above the benzene 0.01 mg/L concentration.

No groundwater samples were analyzed for PAH. As required by the NMOCD, monitoring wells which had not previously met the criteria of two (2) consecutive years of PAH compounds below the NMWQCC standards and below 0.001 mg/L for PAH compounds with an undefined NMWQCC standard will be analyzed for PAH by EPA Method SW846-8270C-SIM. A summary of PAH analytical results is provided in Table 3. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

No samples were collected from the Goff Diary Well and the three (3) Goff Dairy Center Pivot Irrigation System's span locations because the well and irrigation system were not in operation. A sample was collected from the JW House and the sample's analytical results indicated BTEX concentrations were below the NMWQCC criteria.

4. Remediation Activities

GHD conducted routine operation and maintenance (O&M) for monitoring wells with BTEX exceeding the NMWQCC criteria. An oxygen emitter system, installed in monitoring well MW-12 prior to 2022 to enhance aerobic biodegradation of dissolved-phase hydrocarbons in groundwater, continued until July 28, 2022, and was then replaced with an ORC sock. In April 2021, ORC socks were installed in monitoring wells MW-1R, MW-2R, and MW-4R to enhance natural attenuation of the BTEX concentrations reported in the groundwater and were used throughout 2022.

Weekly BTEX abatement was conducted via hand bailing for monitoring wells MW-1R, MW-2R, MW-3R, MW-4R, MW-5R, and MW-12. Approximately 306 gallons of total fluids were removed from these monitoring wells and disposed of in the Site's AST during 2022.

5. Summary of Findings

Based on the quarterly groundwater monitoring events and remedial activities performed in 2022, the following summary of findings are presented:

- No measurable LNAPL thickness was measured on the groundwater of any monitoring well during the monitoring events.
- Monitoring wells MW-6, MW-8, and MW-10 were measured dry throughout 2022.
- The groundwater flow direction was generally to the southeast during the quarterly events. The average gradient of the potentiometric surface was 0.008 ft./ft.
- The potentiometric surface indicates groundwater elevations have declined an average of 0.73 ft. between November 2021 and November 2022. Fluctuations in the elevation of the potentiometric surface is attributed to seasonal weather conditions and operation of the Goff Dairy irrigation system located adjacent and to the southwest of the Site.

- Nine (9) of the Site's twelve (12) monitoring wells were purged and sampled using a hand bailer for determination of the BTEX concentration during the monitoring events.
- Benzene concentrations were above the NMWQCC Human Health Standard criteria for monitoring wells MW-1R, MW-2R, MW-4R, and MW-12 for the quarterly events.
- Toluene, ethylbenzene, and total xylene concentrations were below the NMWQCC Human Health Standard criteria for monitoring wells MW-1R, MW-2R, MW-4R, and MW-12 for the quarterly events.
- Historically, monitoring well MW-3R has had benzene concentrations exceeding the NMWQCC Human Health Standard of 0.01 mg/L. Due to BTEX abatement via hand-bailing, analytical results have shown a significant decline since May 2020; however, an increase in the benzene concentration above NMWQCC criteria was reported for the fourth quarterly event.
- Toluene, ethylbenzene, and total xylene concentrations were below the NMWQCC Human Health Standard criteria for monitoring well MW-3R during the fourth quarterly event.
- The benzene concentration increased to above the NMWQCC Human Health Standard criteria in monitoring well MW-5R for the third and fourth quarterly events.
- Toluene, ethylbenzene, and total xylene concentrations were below the NMWQCC Human Health Standard criteria for monitoring well MW-5R during the third and fourth quarterly events.
- The Goff Dairy Irrigation System was sampled during the first and third quarterly monitoring events. Analytical results indicated the irrigation system had BTEX constituent concentrations below the NMWQCC Human Health Standards.
- The Goff Dairy well was sampled during the third quarterly monitoring event. Analytical results indicated the well had BTEX constituent concentrations below the NMWQCC Human Health Standards.
- The JW House Well was sampled during the third and fourth quarterly monitoring events. Analytical results indicated the well had BTEX constituent concentrations below the NMWQCC Human Health Standards.
- The oxygen emitter system installed in monitoring well MW-12 was removed on July 28, 2022, and replaced with an ORC sock.
- ORC socks installed in monitoring wells MW-1R, MW-2R, and MW-4R were used throughout 2022 and in monitoring well MW-12 for the second half of 2022.

6. Conclusions and Recommendations

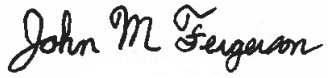
Based upon the data and findings presented in this Report, the following are recommended for 2023:

- Continue NMOCD-approved quarterly groundwater monitoring events, including sampling of groundwater and analysis of BTEX by EPA Method SW846-8021B for all Site monitoring wells.
- Continue sampling of groundwater for analysis of BTEX by EPA Method SW846-8021B from the off-Site Goff Dairy Well and Goff Dairy Center Pivot Irrigation System when operating during scheduled monitoring events.
- Continue sampling of groundwater for analysis of BTEX by EPA Method SW846-8021B from the off-Site JW House Well if house occupancy and livestock operations appear to be ongoing and open access to the property is available.
- Continue weekly BTEX abatement in monitoring wells MW-1R, MW-2R, MW-4R, MW-5R, and MW-12.
- Inspect and replace the ORC filter socks in monitoring wells MW-1R, MW-2R, MW-4R, and MW-12 if degradation of the sock's integrity and/or expiration of the controlled-release, molecular oxygen has occurred.
- Resume weekly BTEX abatement in monitoring well MW-3R and install an ORC filter sock.
- Install an ORC filter sock in monitoring well MW-5R.

– Complete and deliver a Work Plan for the plugging and abandonment of dry monitoring wells MW-6, MW-8, and MW-10 and the installation of replacement monitoring wells to evaluate the Site's groundwater conditions and maintain plume delineation.

All of which is Respectfully Submitted,

GHD



John Fergerson

Project Scientist

JT Murrey

Project Director

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-1	4/5/17	3806.60	92.38	--	0.00	3714.22	92.39
MW-1	6/21/17	3806.60	--	--	--	Dry	92.39
MW-1	9/25/17	3806.60	--	--	--	Dry	92.37
MW-1	11/28/17	3806.60	--	--	--	Dry	92.43
MW-1	2/23/18	3806.60	--	--	--	Dry	92.59
MW-1	5/24/18	3806.60	--	--	--	Dry	92.46
MW-1	8/23/18	3806.60	--	--	--	Dry	92.40
MW-1	9/17/18	P&A	--	--	--	--	--
MW-1R	11/16/18	3806.62	94.80	--	0.00	3711.82	108.70
MW-1R	2/18/19	3806.62	94.06	--	0.00	3712.56	108.69
MW-1R	5/21/19	3806.62	94.69	--	0.00	3711.93	--
MW-1R	8/23/19	3806.62	96.34	--	0.00	3710.28	--
MW-1R	10/17/19	3806.62	95.49	--	0.00	3711.13	--
MW-1R	2/20/20	3806.62	94.04	--	0.00	3712.58	108.36
MW-1R	3/26/20	3806.62	93.90	--	0.00	3712.72	108.37
MW-1R	4/2/20	3806.62	94.59	--	0.00	3712.03	--
MW-1R	4/10/20	3806.62	95.02	--	0.00	3711.60	--
MW-1R	4/17/20	3806.62	95.33	--	0.00	3711.29	--
MW-1R	4/20/20	3806.62	95.48	--	0.00	3711.14	--
MW-1R	4/30/20	3806.62	95.87	--	0.00	3710.75	--
MW-1R	5/6/20	3806.62	96.12	--	0.00	3710.50	--
MW-1R	5/12/20	3806.62	96.31	--	0.00	3710.31	--
MW-1R	5/20/20	3806.62	96.57	--	0.00	3710.05	--
MW-1R	6/3/20	3806.62	96.04	--	0.00	3710.58	--
MW-1R	6/10/20	3806.62	95.84	--	0.00	3710.78	--
MW-1R	6/17/20	3806.62	95.75	--	0.00	3710.87	--
MW-1R	6/25/20	3806.62	95.82	--	0.00	3710.80	--
MW-1R	7/1/20	3806.62	96.33	--	0.00	3710.29	--
MW-1R	7/8/20	3806.62	96.58	--	0.00	3710.04	--
MW-1R	7/15/20	3806.62	96.84	--	0.00	3709.78	--
MW-1R	7/22/20	3806.62	97.02	--	0.00	3709.60	--
MW-1R	7/28/20	3806.62	97.17	--	0.00	3709.45	--
MW-1R	8/5/20	3806.62	97.27	--	0.00	3709.35	--
MW-1R	8/11/20	3806.62	97.42	--	0.00	3709.20	--
MW-1R	8/20/20	3806.62	97.55	--	0.00	3709.07	--
MW-1R	8/26/20	3806.62	97.69	--	0.00	3708.93	--
MW-1R	9/2/20	3806.62	97.95	--	0.00	3708.67	108.36
MW-1R	9/8/20	3806.62	97.94	--	0.00	3708.68	--
MW-1R	9/24/20	3806.62	98.26	--	0.00	3708.36	--
MW-1R	9/30/20	3806.62	98.40	--	0.00	3708.22	--
MW-1R	10/14/20	3806.62	97.73	--	0.00	3708.89	--
MW-1R	10/21/20	3806.62	97.48	--	0.00	3709.14	--
MW-1R	10/26/20	3806.62	97.30	--	0.00	3709.32	--
MW-1R	11/5/20	3806.62	97.16	--	0.00	3709.46	108.36
MW-1R	11/17/20	3806.62	96.94	--	0.00	3709.68	--
MW-1R	11/24/20	3806.62	97.39	--	0.00	3709.23	--
MW-1R	12/1/20	3806.62	97.79	--	0.00	3708.83	--
MW-1R	12/8/20	3806.62	97.55	--	0.00	3709.07	--
MW-1R	12/16/20	3806.62	97.52	--	0.00	3709.10	--
MW-1R	12/23/20	3806.62	97.29	--	0.00	3709.33	--
MW-1R	1/6/21	3806.62	96.96	--	0.00	3709.66	--
MW-1R	1/13/21	3806.62	97.07	--	0.00	3709.55	--
MW-1R	1/21/21	3806.62	96.81	--	0.00	3709.81	--
MW-1R	1/27/21	3806.62	96.77	--	0.00	3709.85	--
MW-1R	2/2/21	3806.62	96.62	--	0.00	3710.00	108.91
MW-1R	2/24/21	3806.62	96.67	--	0.00	3709.95	--
MW-1R	3/9/21	3806.62	97.08	--	0.00	3709.54	--
MW-1R	3/17/21	3806.62	97.58	--	0.00	3709.04	--
MW-1R	3/18/21	3806.62	97.93	--	0.00	3708.69	--
MW-1R	3/26/21	3806.62	97.94	--	0.00	3708.68	--
MW-1R	3/31/21	3806.62	98.13	--	0.00	3708.49	--
MW-1R	4/7/21	3806.62	97.93	--	0.00	3708.69	--
MW-1R	4/12/21	3806.62	98.25	--	0.00	3708.37	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-1R	4/21/21	3806.62	98.48	--	0.00	3708.14	--
MW-1R	4/27/21	3806.62	98.62	--	0.00	3708.00	--
MW-1R	5/4/21	3806.62	98.46	--	0.00	3708.16	--
MW-1R	5/14/21	3806.62	97.94	--	0.00	3708.68	--
MW-1R	5/26/21	3806.62	97.58	--	0.00	3709.04	--
MW-1R	6/11/21	3806.62	97.49	--	0.00	3709.13	--
MW-1R	6/17/21	3806.62	98.23	--	0.00	3708.39	--
MW-1R	6/22/21	3806.62	98.22	--	0.00	3708.40	--
MW-1R	6/28/21	3806.62	98.40	--	0.00	3708.22	--
MW-1R	7/7/21	3806.62	97.98	--	0.00	3708.64	--
MW-1R	7/15/21	3806.62	97.68	--	0.00	3708.94	--
MW-1R	7/27/21	3806.62	97.86	--	0.00	3708.76	--
MW-1R	8/3/21	3806.62	98.33	--	0.00	3708.29	108.91
MW-1R	8/11/21	3806.62	98.55	--	0.00	3708.07	--
MW-1R	8/19/21	3806.62	98.80	--	0.00	3707.82	--
MW-1R	8/26/21	3806.62	98.98	--	0.00	3707.64	--
MW-1R	8/31/21	3806.62	--	--	--	--	--
MW-1R	9/8/21	3806.62	99.20	--	0.00	3707.42	--
MW-1R	9/15/21	3806.62	99.41	--	0.00	3707.21	--
MW-1R	9/23/21	3806.62	99.22	--	0.00	3707.40	--
MW-1R	9/30/21	3806.62	98.83	--	0.00	3707.79	108.91
MW-1R	10/5/21	3806.62	98.73	--	0.00	3707.89	--
MW-1R	10/12/21	3806.62	98.38	--	0.00	3708.24	--
MW-1R	10/19/21	3806.62	98.63	--	0.00	3707.99	--
MW-1R	10/28/21	3806.62	98.39	--	0.00	3708.23	108.91
MW-1R	11/1/21	3806.62	98.61	--	0.00	3708.01	108.91
MW-1R	11/9/21	3806.62	98.82	--	0.00	3707.80	108.91
MW-1R	11/23/21	3806.62	99.08	--	0.00	3707.54	108.91
MW-1R	12/7/21	3806.62	99.02	--	0.00	3707.60	108.91
MW-1R	12/16/21	3806.62	--	--	--	--	108.91
MW-1R	1/5/22	3806.62	98.11	--	0.00	3708.51	108.91
MW-1R	1/12/22	3806.62	98.47	--	0.00	3708.15	108.91
MW-1R	1/18/22	3806.62	98.64	--	0.00	3707.98	108.91
MW-1R	2/7/22	3806.62	97.95	--	0.00	3708.67	108.26
MW-1R	2/15/22	3806.62	97.79	--	0.00	3708.83	108.26
MW-1R	2/21/21	3806.62	97.81	--	0.00	3708.81	108.26
MW-1R	2/21/22	3806.62	97.81	--	0.00	3708.81	108.26
MW-1R	3/3/22	3806.62	97.99	--	0.00	3708.63	108.26
MW-1R	3/8/22	3806.62	98.43	--	0.00	3708.19	108.26
MW-1R	3/15/22	3806.62	98.55	--	0.00	3708.07	108.26
MW-1R	3/21/22	3806.62	98.86	--	0.00	3707.76	108.26
MW-1R	4/1/22	3806.62	99.18	--	0.00	3707.44	108.26
MW-1R	4/6/22	3806.62	99.28	--	0.00	3707.34	108.26
MW-1R	4/11/22	3806.62	99.58	--	0.00	3707.04	108.26
MW-1R	4/19/22	3806.62	99.60	--	0.00	3707.02	108.26
MW-1R	4/29/22	3806.62	99.88	--	0.00	3706.74	108.26
MW-1R	5/3/22	3806.62	99.98	--	0.00	3706.64	108.26
MW-1R	5/10/22	3806.62	100.11	--	0.00	3706.51	108.26
MW-1R	5/17/22	3806.62	100.05	--	0.00	3706.57	108.26
MW-1R	6/1/22	3806.62	99.32	--	0.00	3707.30	108.26
MW-1R	6/10/22	3806.62	99.26	--	0.00	3707.36	108.26
MW-1R	6/15/22	3806.62	99.67	--	0.00	3706.95	108.26
MW-1R	6/22/22	3806.62	100.02	--	0.00	3706.60	108.26
MW-1R	6/28/22	3806.62	100.22	--	0.00	3706.40	108.26
MW-1R	7/6/22	3806.62	100.39	--	0.00	3706.23	108.26
MW-1R	7/13/22	3806.62	100.47	--	0.00	3706.15	108.26
MW-1R	7/21/22	3806.62	100.69	--	0.00	3705.93	108.26
MW-1R	7/28/22	3806.62	100.86	--	0.00	3705.76	108.26
MW-1R	8/1/22	3806.62	100.89	--	0.00	3705.73	108.26
MW-1R	8/9/22	3806.62	101.05	--	0.00	3705.57	108.26
MW-1R	8/15/22	3806.62	101.20	--	0.00	3705.42	108.26
MW-1R	8/31/22	3806.62	101.21	--	0.00	3705.41	108.26
MW-1R	9/8/22	3806.62	100.92	--	0.00	3705.70	108.26

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-1R	9/29/22	3806.62	100.41	--	0.00	3706.21	108.26
MW-1R	10/6/22	3806.62	100.24	--	0.00	3706.38	108.26
MW-1R	11/9/22	3806.62	100.09	--	0.00	3706.53	108.26
MW-1R	11/21/22	3806.62	100.10	--	0.00	3706.52	108.26
MW-2	4/5/17	3806.31	--	--	--	Dry	88.06
MW-2	6/21/17	3806.31	--	--	--	Dry	88.05
MW-2	9/25/17	3806.31	--	--	--	Dry	88.10
MW-2	11/28/17	3806.31	--	--	--	Dry	88.09
MW-2	2/23/18	3806.31	--	--	--	Dry	88.04
MW-2	5/24/18	3806.31	--	--	--	Dry	88.25
MW-2	8/23/18	3806.31	--	--	--	Dry	88.05
MW-2	9/17/18	P&A	--	--	--	--	--
MW-2R	11/16/18	3806.38	95.26	--	0.00	3711.12	109.91
MW-2R	2/18/19	3806.38	94.38	--	0.00	3712.00	109.74
MW-2R	5/21/19	3806.38	95.05	--	0.00	3711.33	--
MW-2R	8/23/19	3806.38	97.30	--	0.00	3709.08	--
MW-2R	10/17/19	3806.38	95.61	--	0.00	3710.77	--
MW-2R	2/20/20	3806.38	94.05	--	0.00	3712.33	109.79
MW-2R	3/26/20	3806.38	94.02	--	0.00	3712.36	109.86
MW-2R	4/2/20	3806.38	94.95	--	0.00	3711.43	--
MW-2R	4/10/20	3806.38	95.55	--	0.00	3710.83	--
MW-2R	4/17/20	3806.38	96.09	--	0.00	3710.29	--
MW-2R	4/20/20	3806.38	96.20	--	0.00	3710.18	--
MW-2R	4/30/20	3806.38	96.68	--	0.00	3709.70	--
MW-2R	5/6/20	3806.38	97.06	--	0.00	3709.32	--
MW-2R	5/12/20	3806.38	97.21	--	0.00	3709.17	--
MW-2R	5/20/20	3806.38	97.47	--	0.00	3708.91	--
MW-2R	6/3/20	3806.38	96.40	--	0.00	3709.98	--
MW-2R	6/10/20	3806.38	96.30	--	0.00	3710.08	--
MW-2R	6/17/20	3806.38	96.08	--	0.00	3710.30	--
MW-2R	6/25/20	3806.38	96.25	--	0.00	3710.13	--
MW-2R	7/1/20	3806.38	96.87	--	0.00	3709.51	--
MW-2R	7/8/20	3806.38	97.29	--	0.00	3709.09	--
MW-2R	7/15/20	3806.38	97.67	--	0.00	3708.71	--
MW-2R	7/22/20	3806.38	97.93	--	0.00	3708.45	--
MW-2R	7/28/20	3806.38	98.10	--	0.00	3708.28	--
MW-2R	8/5/20	3806.38	98.02	--	0.00	3708.36	--
MW-2R	8/11/20	3806.38	97.89	--	0.00	3708.49	--
MW-2R	8/20/20	3806.38	98.48	--	0.00	3707.90	--
MW-2R	8/26/20	3806.38	98.65	--	0.00	3707.73	--
MW-2R	9/2/20	3806.38	98.83	--	0.00	3707.55	109.79
MW-2R	9/8/20	3806.38	98.94	--	0.00	3707.44	--
MW-2R	9/24/20	3806.38	99.28	--	0.00	3707.10	--
MW-2R	9/30/20	3806.38	99.45	--	0.00	3706.93	--
MW-2R	10/14/20	3806.38	98.26	--	0.00	3708.12	--
MW-2R	10/21/20	3806.38	92.86	--	0.00	3713.52	--
MW-2R	10/26/20	3806.38	97.60	--	0.00	3708.78	--
MW-2R	11/5/20	3806.38	97.42	--	0.00	3708.96	109.79
MW-2R	11/17/20	3806.38	97.20	--	0.00	3709.18	--
MW-2R	11/24/20	3806.38	97.96	--	0.00	3708.42	--
MW-2R	12/1/20	3806.38	98.43	--	0.00	3707.95	--
MW-2R	12/8/20	3806.38	98.02	--	0.00	3708.36	--
MW-2R	12/16/20	3806.38	97.94	--	0.00	3708.44	--
MW-2R	12/23/20	3806.38	97.59	--	0.00	3708.79	--
MW-2R	1/6/21	3806.38	97.22	--	0.00	3709.16	--
MW-2R	1/13/21	3806.38	97.39	--	0.00	3708.99	--
MW-2R	1/21/21	3806.38	97.02	--	0.00	3709.36	--
MW-2R	1/27/21	3806.38	96.90	--	0.00	3709.48	--
MW-2R	2/2/21	3806.38	96.73	--	0.00	3709.65	109.88
MW-2R	2/24/21	3806.38	96.99	--	0.00	3709.39	--
MW-2R	3/9/21	3806.38	97.42	--	0.00	3708.96	--
MW-2R	3/17/21	3806.38	97.58	--	0.00	3708.80	109.37
MW-2R	3/18/21	3806.38	98.30	--	0.00	3708.08	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-2R	3/26/21	3806.38	98.74	--	0.00	3707.64	--
MW-2R	3/31/21	3806.38	99.01	--	0.00	3707.37	--
MW-2R	4/7/21	3806.38	98.47	--	0.00	3707.91	--
MW-2R	4/12/21	3806.38	98.97	--	0.00	3707.41	--
MW-2R	4/21/21	3806.38	99.36	--	0.00	3707.02	--
MW-2R	4/27/21	3806.38	99.55	--	0.00	3706.83	--
MW-2R	5/4/21	3806.38	98.95	--	0.00	3707.43	--
MW-2R	5/17/21	3806.38	98.40	--	0.00	3707.98	--
MW-2R	5/26/21	3806.38	97.91	--	0.00	3708.47	--
MW-2R	6/11/21	3806.38	97.89	--	0.00	3708.49	--
MW-2R	6/17/21	3806.38	98.46	--	0.00	3707.92	--
MW-2R	6/22/21	3806.38	99.09	--	0.00	3707.29	--
MW-2R	6/28/21	3806.38	99.15	--	0.00	3707.23	--
MW-2R	7/7/21	3806.38	98.52	--	0.00	3707.86	--
MW-2R	7/15/21	3806.38	98.05	--	0.00	3708.33	--
MW-2R	7/27/21	3806.38	98.24	--	0.00	3708.14	--
MW-2R	8/3/21	3806.38	99.05	--	0.00	3707.33	109.88
MW-2R	8/11/21	3806.38	99.40	--	0.00	3706.98	--
MW-2R	8/19/21	3806.38	99.71	--	0.00	3706.67	--
MW-2R	8/26/21	3806.38	100.00	--	0.00	3706.38	--
MW-2R	8/31/21	3806.38	--	--	--	--	--
MW-2R	9/8/21	3806.38	100.11	--	0.00	3706.27	--
MW-2R	9/15/21	3806.38	100.67	--	0.00	3705.71	--
MW-2R	9/23/21	3806.38	99.92	--	0.00	3706.46	--
MW-2R	9/30/21	3806.38	99.33	--	0.00	3707.05	109.88
MW-2R	10/5/21	3806.38	99.21	--	0.00	3707.17	--
MW-2R	10/12/21	3806.38	99.65	--	0.00	3706.73	--
MW-2R	10/19/21	3806.38	99.97	--	0.00	3706.41	--
MW-2R	10/28/21	3806.38	98.95	--	0.00	3707.43	109.88
MW-2R	11/1/21	3806.38	99.15	--	0.00	3707.23	109.88
MW-2R	11/9/21	3806.38	99.31	--	0.00	3707.07	109.88
MW-2R	11/23/21	3806.38	99.53	--	0.00	3706.85	109.88
MW-2R	12/7/21	3806.38	99.80	--	0.00	3706.58	109.88
MW-2R	12/16/21	3806.38	--	--	--	--	109.88
MW-2R	1/5/22	3806.38	98.38	--	0.00	3708.00	109.88
MW-2R	1/12/22	3806.38	--	--	--	--	109.88
MW-2R	1/18/22	3806.38	99.25	--	0.00	3707.13	109.88
MW-2R	2/7/22	3806.38	98.06	--	0.00	3708.32	108.99
MW-2R	2/15/22	3806.38	98.01	--	0.00	3708.37	108.99
MW-2R	2/21/22	3806.38	98.06	--	0.00	3708.32	108.99
MW-2R	3/3/22	3806.38	98.54	--	0.00	3707.84	108.99
MW-2R	3/8/22	3806.38	98.85	--	0.00	3707.53	108.99
MW-2R	3/15/22	3806.38	99.04	--	0.00	3707.34	108.99
MW-2R	3/21/22	3806.38	99.46	--	0.00	3706.92	108.99
MW-2R	4/1/22	3806.38	99.84	--	0.00	3706.54	108.99
MW-2R	4/6/22	3806.38	100.01	--	0.00	3706.37	108.99
MW-2R	4/11/22	3806.38	100.63	--	0.00	3705.75	108.99
MW-2R	4/19/22	3806.38	100.66	--	0.00	3705.72	108.99
MW-2R	4/29/22	3806.38	101.00	--	0.00	3705.38	108.99
MW-2R	5/3/22	3806.38	101.16	--	0.00	3705.22	108.99
MW-2R	5/10/22	3806.38	101.41	--	0.00	3704.97	108.99
MW-2R	5/17/22	3806.38	101.01	--	0.00	3705.37	108.99
MW-2R	6/1/22	3806.38	99.89	--	0.00	3706.49	108.99
MW-2R	6/10/22	3806.38	99.56	--	0.00	3706.82	108.99
MW-2R	6/15/22	3806.38	100.30	--	0.00	3706.08	108.99
MW-2R	6/22/22	3806.38	100.81	--	0.00	3705.57	108.99
MW-2R	6/28/22	3806.38	101.24	--	0.00	3705.14	108.99
MW-2R	7/6/22	3806.38	101.39	--	0.00	3704.99	108.99
MW-2R	7/13/22	3806.38	101.53	--	0.00	3704.85	108.99
MW-2R	7/21/22	3806.38	101.67	--	0.00	3704.71	108.99
MW-2R	7/28/22	3806.38	101.87	--	0.00	3704.51	108.99
MW-2R	8/1/22	3806.38	101.97	--	0.00	3704.41	108.99
MW-2R	8/9/22	3806.38	102.10	--	0.00	3704.28	108.99

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-2R	8/15/22	3806.38	102.56	--	0.00	3703.82	108.99
MW-2R	8/31/22	3806.38	102.47	--	0.00	3703.91	108.99
MW-2R	9/8/22	3806.38	101.71	--	0.00	3704.67	108.99
MW-2R	9/29/22	3806.38	101.69	--	0.00	3704.69	108.99
MW-2R	10/6/22	3806.38	100.56	--	0.00	3705.82	108.99
MW-2R	11/9/22	3806.38	100.65	--	0.00	3705.73	108.99
MW-2R	11/16/22	3806.38	100.84	--	0.00	3705.54	108.99
MW-2R	11/21/22	3806.38	100.42	--	0.00	3705.96	108.99
MW-3	4/5/17	3806.19	--	--	--	Dry	92.46
MW-3	6/21/17	3806.19	--	--	--	Dry	92.46
MW-3	9/25/17	3806.19	--	--	--	Dry	92.51
MW-3	11/28/17	3806.19	--	--	--	Dry	92.43
MW-3	2/23/18	3806.19	--	--	--	Dry	92.46
MW-3	5/24/18	3806.19	--	--	--	Dry	92.56
MW-3	8/23/18	3806.19	--	--	--	Dry	92.48
MW-3	9/17/18	P&A	--	--	--	--	--
MW-3R	11/16/18	3806.15	94.85	--	0.00	3711.30	109.91
MW-3R	2/18/19	3806.15	94.03	--	0.00	3712.12	109.82
MW-3R	5/21/19	3806.15	94.67	--	0.00	3711.48	--
MW-3R	8/23/19	3806.15	96.79	--	0.00	3709.36	--
MW-3R	10/17/19	3806.15	95.23	--	0.00	3710.92	--
MW-3R	2/20/20	3806.15	93.73	--	0.00	3712.42	110.05
MW-3R	3/26/20	3806.15	93.70	--	0.00	3712.45	109.91
MW-3R	4/2/20	3806.15	94.58	--	0.00	3711.57	--
MW-3R	4/10/20	3806.15	95.15	--	0.00	3711.00	--
MW-3R	4/17/20	3806.15	95.58	--	0.00	3710.57	--
MW-3R	4/20/20	3806.15	95.75	--	0.00	3710.40	--
MW-3R	4/30/20	3806.15	96.20	--	0.00	3709.95	--
MW-3R	5/6/20	3806.15	97.48	--	0.00	3708.67	--
MW-3R	5/12/20	3806.15	96.70	--	0.00	3709.45	--
MW-3R	5/20/20	3806.15	96.95	--	0.00	3709.20	--
MW-3R	6/3/20	3806.15	95.95	--	0.00	3710.20	--
MW-3R	6/10/20	3806.15	95.67	--	0.00	3710.48	--
MW-3R	6/17/20	3806.15	95.68	--	0.00	3710.47	--
MW-3R	6/25/20	3806.15	95.84	--	0.00	3710.31	--
MW-3R	7/1/20	3806.15	96.43	--	0.00	3709.72	--
MW-3R	7/8/20	3806.15	96.82	--	0.00	3709.33	--
MW-3R	7/15/20	3806.15	97.16	--	0.00	3708.99	--
MW-3R	7/22/20	3806.15	97.41	--	0.00	3708.74	--
MW-3R	7/28/20	3806.15	97.55	--	0.00	3708.60	--
MW-3R	8/5/20	3806.15	97.51	--	0.00	3708.64	--
MW-3R	8/11/20	3806.15	97.79	--	0.00	3708.36	--
MW-3R	8/20/20	3806.15	97.96	--	0.00	3708.19	--
MW-3R	8/26/20	3806.15	98.09	--	0.00	3708.06	--
MW-3R	9/2/20	3806.15	98.26	--	0.00	3707.89	110.05
MW-3R	9/8/20	3806.15	98.36	--	0.00	3707.79	--
MW-3R	9/24/20	3806.15	98.69	--	0.00	3707.46	--
MW-3R	9/30/20	3806.15	98.88	--	0.00	3707.27	--
MW-3R	10/14/20	3806.15	97.77	--	0.00	3708.38	--
MW-3R	10/21/20	3806.15	97.38	--	0.00	3708.77	--
MW-3R	10/26/20	3806.15	97.17	--	0.00	3708.98	--
MW-3R	11/5/20	3806.15	96.98	--	0.00	3709.17	110.05
MW-3R	11/17/20	3806.15	96.79	--	0.00	3709.36	--
MW-3R	11/24/20	3806.15	97.53	--	0.00	3708.62	--
MW-3R	12/1/20	3806.15	98.01	--	0.00	3708.14	--
MW-3R	12/8/20	3806.15	97.55	--	0.00	3708.60	--
MW-3R	12/16/20	3806.15	97.48	--	0.00	3708.67	--
MW-3R	12/23/20	3806.15	97.17	--	0.00	3708.98	--
MW-3R	1/6/21	3806.15	96.83	--	0.00	3709.32	--
MW-3R	1/13/21	3806.15	96.94	--	0.00	3709.21	--
MW-3R	1/21/21	3806.15	96.60	--	0.00	3709.55	--
MW-3R	1/27/21	3806.15	96.52	--	0.00	3709.63	--
MW-3R	2/2/21	3806.15	96.35	--	0.00	3709.80	109.89

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-3R	3/9/21	3806.15	97.04	--	0.00	3709.11	--
MW-3R	3/17/21	3806.15	97.73	--	0.00	3708.42	--
MW-3R	3/18/21	3806.15	97.78	--	0.00	3708.37	--
MW-3R	3/26/21	3806.15	98.23	--	0.00	3707.92	--
MW-3R	3/31/21	3806.15	98.49	--	0.00	3707.66	--
MW-3R	4/7/21	3806.15	97.99	--	0.00	3708.16	--
MW-3R	4/12/21	3806.15	98.48	--	0.00	3707.67	--
MW-3R	4/21/21	3806.15	98.83	--	0.00	3707.32	--
MW-3R	4/27/21	3806.15	99.00	--	0.00	3707.15	--
MW-3R	5/4/21	3806.15	98.45	--	0.00	3707.70	--
MW-3R	5/14/21	3806.15	97.87	--	0.00	3708.28	--
MW-3R	5/26/21	3806.15	97.36	--	0.00	3708.79	--
MW-3R	6/11/21	3806.15	97.32	--	0.00	3708.83	--
MW-3R	6/17/21	3806.15	98.02	--	0.00	3708.13	--
MW-3R	6/22/21	3806.15	98.37	--	0.00	3707.78	--
MW-3R	6/28/21	3806.15	98.52	--	0.00	3707.63	--
MW-3R	7/7/21	3806.15	97.84	--	0.00	3708.31	--
MW-3R	7/15/21	3806.15	97.47	--	0.00	3708.68	--
MW-3R	7/27/21	3806.15	97.79	--	0.00	3708.36	--
MW-3R	8/3/21	3806.15	98.43	--	0.00	3707.72	109.86
MW-3R	8/11/21	3806.15	98.70	--	0.00	3707.45	--
MW-3R	8/19/21	3806.15	99.02	--	0.00	3707.13	--
MW-3R	8/26/21	3806.15	99.32	--	0.00	3706.83	--
MW-3R	8/31/21	3806.15	--	--	--	--	--
MW-3R	9/8/21	3806.15	99.55	--	0.00	3706.60	--
MW-3R	9/15/21	3806.15	99.79	--	0.00	3706.36	--
MW-3R	9/23/21	3806.15	99.35	--	0.00	3706.80	--
MW-3R	9/30/21	3806.15	98.83	--	0.00	3707.32	109.89
MW-3R	10/5/21	3806.15	98.49	--	0.00	3707.66	--
MW-3R	10/12/21	3806.15	98.19	--	0.00	3707.96	--
MW-3R	10/19/21	3806.15	98.33	--	0.00	3707.82	--
MW-3R	10/28/21	3806.15	98.31	--	0.00	3707.84	--
MW-3R	11/1/21	3806.15	98.72	--	0.00	3707.43	109.89
MW-3R	11/9/21	3806.15	98.79	--	0.00	3707.36	109.89
MW-3R	11/23/21	3806.15	99.15	--	0.00	3707.00	109.89
MW-3R	12/7/21	3806.15	98.93	--	0.00	3707.22	109.89
MW-3R	12/16/21	3806.15	--	--	--	--	109.89
MW-3R	1/5/22	3806.15	97.86	--	0.00	3708.29	109.89
MW-3R	1/12/22	3806.15	99.03	--	0.00	3707.12	109.89
MW-3R	1/18/22	3806.15	98.55	--	0.00	3707.60	109.89
MW-3R	2/7/22	3806.15	97.72	--	0.00	3708.43	109.12
MW-3R	2/15/22	3806.15	97.49	--	0.00	3708.66	109.12
MW-3R	2/21/22	3806.15	97.71	--	0.00	3708.44	109.12
MW-3R	3/15/22	3806.15	98.62	--	0.00	3707.53	109.12
MW-3R	4/11/22	3806.15	99.83	--	0.00	3706.32	109.12
MW-3R	5/10/22	3806.15	100.54	--	0.00	3705.61	109.12
MW-3R	6/15/22	3806.15	99.84	--	0.00	3706.31	109.12
MW-3R	7/28/22	3806.15	101.27	--	0.00	3704.88	109.12
MW-3R	8/9/22	3806.15	101.51	--	0.00	3704.64	109.12
MW-3R	11/21/22	3806.15	99.99	--	0.00	3706.16	109.12
MW-4	4/5/17	3806.67	--	--	--	Dry	91.01
MW-4	6/21/17	3806.67	91.01	--	0.00	3715.66	91.02
MW-4	9/25/17	3806.67	--	--	--	Dry	91.10
MW-4	11/28/17	3806.67	--	--	--	Dry	91.07
MW-4	2/23/18	3806.67	--	--	--	Dry	91.02
MW-4	5/24/18	3806.67	--	--	--	Dry	91.07
MW-4	8/23/18	3806.67	--	--	--	Dry	91.01
MW-4	9/17/18	P&A	--	--	--	--	--
MW-4R	11/16/18	3806.67	95.20	--	0.00	3711.47	110.01
MW-4R	2/18/19	3806.67	94.30	--	0.00	3712.37	110.00
MW-4R	5/21/19	3806.67	94.99	--	0.00	3711.68	--
MW-4R	8/23/19	3806.67	96.99	--	0.00	3709.68	--
MW-4R	10/17/19	3806.67	95.75	--	0.00	3710.92	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-4R	2/20/20	3806.67	94.22	--	0.00	3712.45	110.00
MW-4R	3/26/20	3806.67	94.10	--	0.00	3712.57	110.03
MW-4R	4/2/20	3806.67	94.84	--	0.00	3711.83	--
MW-4R	4/10/20	3806.67	95.31	--	0.00	3711.36	--
MW-4R	4/17/20	3806.67	95.67	--	0.00	3711.00	--
MW-4R	4/20/20	3806.67	95.84	--	0.00	3710.83	--
MW-4R	4/30/20	3806.67	96.27	--	0.00	3710.40	--
MW-4R	5/6/20	3806.67	96.54	--	0.00	3710.13	--
MW-4R	5/20/20	3806.67	97.03	--	0.00	3709.64	--
MW-4R	6/3/20	3806.67	96.38	--	0.00	3710.29	--
MW-4R	6/10/20	3806.67	96.13	--	0.00	3710.54	--
MW-4R	6/17/20	3806.67	96.06	--	0.00	3710.61	--
MW-4R	6/25/20	3806.67	96.14	--	0.00	3710.53	--
MW-4R	7/1/20	3806.67	96.67	--	0.00	3710.00	--
MW-4R	7/8/20	3806.67	96.97	--	0.00	3709.70	--
MW-4R	7/15/20	3806.67	96.97	--	0.00	3709.70	--
MW-4R	7/22/20	3806.67	97.49	--	0.00	3709.18	--
MW-4R	7/28/20	3806.67	97.65	--	0.00	3709.02	--
MW-4R	8/5/20	3806.67	97.73	--	0.00	3708.94	--
MW-4R	8/11/20	3806.67	98.31	--	0.00	3708.36	--
MW-4R	8/20/20	3806.67	98.06	--	0.00	3708.61	--
MW-4R	8/26/20	3806.67	98.20	--	0.00	3708.47	--
MW-4R	9/2/20	3806.67	98.38	--	0.00	3708.29	110.00
MW-4R	9/8/20	3806.67	98.47	--	0.00	3708.20	--
MW-4R	9/24/20	3806.67	98.81	--	0.00	3707.86	--
MW-4R	9/30/20	3806.67	98.95	--	0.00	3707.72	--
MW-4R	10/14/20	3806.67	98.18	--	0.00	3708.49	--
MW-4R	10/21/20	3806.67	97.81	--	0.00	3708.86	--
MW-4R	10/26/20	3806.67	97.69	--	0.00	3708.98	--
MW-4R	11/5/20	3806.67	97.48	--	0.00	3709.19	110.00
MW-4R	11/17/20	3806.67	97.27	--	0.00	3709.40	--
MW-4R	11/24/20	3806.67	97.78	--	0.00	3708.89	--
MW-4R	12/1/20	3806.67	98.20	--	0.00	3708.47	--
MW-4R	12/8/20	3806.67	97.93	--	0.00	3708.74	--
MW-4R	12/16/20	3806.67	97.87	--	0.00	3708.80	--
MW-4R	12/23/20	3806.67	97.62	--	0.00	3709.05	--
MW-4R	1/6/21	3806.67	97.23	--	0.00	3709.44	--
MW-4R	1/13/21	3806.67	97.37	--	0.00	3709.30	--
MW-4R	1/21/21	3806.67	97.02	--	0.00	3709.65	--
MW-4R	1/27/21	3806.67	97.03	--	0.00	3709.64	--
MW-4R	2/2/21	3806.67	96.88	--	0.00	3709.79	109.78
MW-4R	2/24/21	3806.67	96.97	--	0.00	3709.70	--
MW-4R	3/9/21	3806.67	97.36	--	0.00	3709.31	--
MW-4R	3/17/21	3806.67	98.35	--	0.00	3708.32	--
MW-4R	3/18/21	3806.67	98.02	--	0.00	3708.65	--
MW-4R	3/26/21	3806.67	98.35	--	0.00	3708.32	--
MW-4R	3/31/21	3806.67	98.56	--	0.00	3708.11	--
MW-4R	4/7/21	3806.67	98.31	--	0.00	3708.36	--
MW-4R	4/12/21	3806.67	98.66	--	0.00	3708.01	--
MW-4R	4/21/21	3806.67	98.48	--	0.00	3708.19	--
MW-4R	4/27/21	3806.67	99.10	--	0.00	3707.57	--
MW-4R	5/4/21	3806.67	98.67	--	0.00	3708.00	--
MW-4R	5/14/21	3806.67	98.25	--	0.00	3708.42	--
MW-4R	5/26/21	3806.67	97.85	--	0.00	3708.82	--
MW-4R	6/11/21	3806.67	97.72	--	0.00	3708.95	--
MW-4R	6/17/21	3806.67	98.50	--	0.00	3708.17	--
MW-4R	6/22/21	3806.67	98.60	--	0.00	3708.07	--
MW-4R	6/28/21	3806.67	98.80	--	0.00	3707.87	--
MW-4R	7/7/21	3806.67	98.27	--	0.00	3708.40	--
MW-4R	7/15/21	3806.67	97.98	--	0.00	3708.69	--
MW-4R	7/27/21	3806.67	98.17	--	0.00	3708.50	--
MW-4R	8/3/21	3806.67	98.71	--	0.00	3707.96	109.78
MW-4R	8/11/21	3806.67	98.94	--	0.00	3707.73	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-4R	8/19/21	3806.67	99.19	--	0.00	3707.48	--
MW-4R	8/26/21	3806.67	99.45	--	0.00	3707.22	--
MW-4R	8/31/21	3806.67	--	--	--	--	--
MW-4R	9/8/21	3806.67	99.69	--	0.00	3706.98	--
MW-4R	9/15/21	3806.67	99.89	--	0.00	3706.78	--
MW-4R	9/23/21	3806.67	99.64	--	0.00	3707.03	--
MW-4R	9/30/21	3806.67	99.26	--	0.00	3707.41	109.78
MW-4R	10/5/21	3806.67	98.98	--	0.00	3707.69	--
MW-4R	10/12/21	3806.67	98.70	--	0.00	3707.97	--
MW-4R	10/19/21	3806.67	98.74	--	0.00	3707.93	--
MW-4R	10/28/21	3806.67	98.67	--	0.00	3708.00	109.78
MW-4R	11/1/21	3806.67	98.99	--	0.00	3707.68	109.78
MW-4R	11/9/21	3806.67	99.16	--	0.00	3707.51	109.78
MW-4R	11/23/21	3806.67	99.45	--	0.00	3707.22	109.78
MW-4R	12/7/21	3806.67	99.33	--	0.00	3707.34	109.78
MW-4R	12/16/21	3806.67	--	--	--	--	109.78
MW-4R	1/5/22	3806.67	98.39	--	0.00	3708.28	109.78
MW-4R	1/12/22	3806.67	98.79	--	0.00	3707.88	109.78
MW-4R	1/18/22	3806.67	98.93	--	0.00	3707.74	109.78
MW-4R	2/7/22	3806.67	98.15	--	0.00	3708.52	109.38
MW-4R	2/15/22	3806.67	98.01	--	0.00	3708.66	109.38
MW-4R	2/21/22	3806.67	98.05	--	0.00	3708.62	109.38
MW-4R	3/3/22	3806.67	98.27	--	0.00	3708.40	109.38
MW-4R	3/8/22	3806.67	98.68	--	0.00	3707.99	109.38
MW-4R	3/15/22	3806.67	98.84	--	0.00	3707.83	109.38
MW-4R	3/21/22	3806.67	99.18	--	0.00	3707.49	109.38
MW-4R	4/1/22	3806.67	99.43	--	0.00	3707.24	109.38
MW-4R	4/6/22	3806.67	99.65	--	0.00	3707.02	109.38
MW-4R	4/11/22	3806.67	99.92	--	0.00	3706.75	109.38
MW-4R	4/19/22	3806.67	99.96	--	0.00	3706.71	109.38
MW-4R	4/29/22	3806.67	100.36	--	0.00	3706.31	109.38
MW-4R	5/3/22	3806.67	100.44	--	0.00	3706.23	109.38
MW-4R	5/10/22	3806.67	100.58	--	0.00	3706.09	109.38
MW-4R	6/1/22	3806.67	99.68	--	0.00	3706.99	109.38
MW-4R	6/10/22	3806.67	99.70	--	0.00	3706.97	109.38
MW-4R	6/15/22	3806.67	100.05	--	0.00	3706.62	109.38
MW-4R	6/22/22	3806.67	100.44	--	0.00	3706.23	109.38
MW-4R	6/28/22	3806.67	100.73	--	0.00	3705.94	109.38
MW-4R	7/6/22	3806.67	100.88	--	0.00	3705.79	109.38
MW-4R	7/13/22	3806.67	101.00	--	0.00	3705.67	109.38
MW-4R	7/21/22	3806.67	101.19	--	0.00	3705.48	109.38
MW-4R	7/28/22	3806.67	101.44	--	0.00	3705.23	109.38
MW-4R	8/1/22	3806.67	101.48	--	0.00	3705.19	109.38
MW-4R	8/9/22	3806.67	101.54	--	0.00	3705.13	109.38
MW-4R	8/15/22	3806.67	101.72	--	0.00	3704.95	109.38
MW-4R	8/31/22	3806.67	101.73	--	0.00	3704.94	109.38
MW-4R	9/8/22	3806.67	101.39	--	0.00	3705.28	109.38
MW-4R	9/29/22	3806.67	100.93	--	0.00	3705.74	109.38
MW-4R	10/6/22	3806.67	100.63	--	0.00	3706.04	109.38
MW-4R	11/9/22	3806.67	100.42	--	0.00	3706.25	109.38
MW-4R	11/16/22	3806.67	100.71	--	0.00	3705.96	109.38
MW-4R	11/21/22	3806.67	100.40	--	0.00	3706.27	109.38
MW-5	4/5/17	3806.30	--	--	--	Dry	91.19
MW-5	6/21/17	3806.30	--	--	--	Dry	91.20
MW-5	9/25/17	3806.30	--	--	--	Dry	91.23
MW-5	11/28/17	3806.30	--	--	--	Dry	91.24
MW-5	2/23/18	3806.30	--	--	--	Dry	91.18
MW-5	5/24/18	3806.30	--	--	--	Dry	91.22
MW-5	8/23/18	3806.30	--	--	--	Dry	91.25
MW-5	9/17/18	P&A	--	--	--	--	--
MW-5R	11/16/18	3806.46	94.65	--	0.00	3711.81	107.45
MW-5R	2/18/19	3806.46	93.96	--	0.00	3712.50	107.42
MW-5R	5/21/19	3806.46	94.57	--	0.00	3711.89	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-5R	8/23/19	3806.46	96.40	--	0.00	3710.06	--
MW-5R	10/17/19	3806.46	95.26	--	0.00	3711.20	--
MW-5R	2/20/20	3806.46	93.92	--	0.00	3712.54	107.40
MW-5R	4/30/20	3806.46	95.79	--	0.00	3710.67	--
MW-5R	5/20/20	3806.46	96.44	--	0.00	3710.02	--
MW-5R	6/17/20	3806.46	95.60	--	0.00	3710.86	--
MW-5R	7/28/20	3806.46	97.05	--	0.00	3709.41	--
MW-5R	8/26/20	3806.46	97.56	--	0.00	3708.90	--
MW-5R	9/2/20	3806.46	107.19	--	0.00	3699.27	107.40
MW-5R	9/16/20	3806.46	97.97	--	0.00	3708.49	107.59
MW-5R	10/21/20	3806.46	97.25	--	0.00	3709.21	--
MW-5R	11/5/20	3806.46	96.93	--	0.00	3709.53	107.40
MW-5R	12/8/20	3806.46	97.43	--	0.00	3709.03	107.40
MW-5R	1/27/21	3806.46	96.58	--	0.00	3709.88	--
MW-5R	2/2/21	3806.46	96.45	--	0.00	3710.01	107.62
MW-5R	3/18/21	3806.46	97.46	--	0.00	3709.00	--
MW-5R	3/26/21	3806.46	97.84	--	0.00	3708.62	--
MW-5R	4/27/21	3806.46	98.52	--	0.00	3707.94	--
MW-5R	5/4/21	3806.46	98.17	--	0.00	3708.29	--
MW-5R	6/28/21	3806.46	98.23	--	0.00	3708.23	--
MW-5R	7/27/21	3806.46	97.68	--	0.00	3708.78	--
MW-5R	8/3/21	3806.46	98.19	--	0.00	3708.27	107.62
MW-5R	9/30/21	3806.46	98.65	--	0.00	3707.81	107.62
MW-5R	10/28/21	3806.46	98.15	--	0.00	3708.31	107.62
MW-5R	11/1/21	3806.46	98.48	--	0.00	3707.98	107.62
MW-5R	2/7/22	3806.46	97.77	--	0.00	3708.69	107.49
MW-5R	3/15/22	3806.46	98.44	--	0.00	3708.02	107.49
MW-5R	4/11/22	3806.46	99.34	--	0.00	3707.12	107.49
MW-5R	5/10/22	3806.46	99.99	--	0.00	3706.47	107.49
MW-5R	6/15/22	3806.46	99.54	--	0.00	3706.92	107.49
MW-5R	7/28/22	3806.46	100.71	--	0.00	3705.75	107.49
MW-5R	8/9/22	3806.46	100.94	--	0.00	3705.52	107.49
MW-5R	11/9/22	3806.46	99.95	--	0.00	3706.51	107.49
MW-5R	11/21/22	3806.46	99.89	--	0.00	3706.57	107.49
MW-6	4/5/17	3806.08	--	--	--	Dry	92.64
MW-6	6/21/17	3806.08	--	--	--	Dry	92.65
MW-6	9/25/17	3806.08	--	--	--	Dry	92.69
MW-6	11/28/17	3806.08	92.62	--	0.00	3713.46	93.01
MW-6	2/23/18	3806.08	--	--	--	Dry	92.79
MW-6	5/24/18	3806.08	--	--	--	Dry	92.69
MW-6	8/23/18	3806.08	--	--	--	Dry	92.65
MW-6	11/16/18	3806.08	--	--	0.00	Dry	92.68
MW-6	2/18/19	3806.08	--	--	0.00	Dry	92.64
MW-6	5/21/19	3806.08	--	--	0.00	Dry	--
MW-6	8/23/19	3806.08	--	--	0.00	Dry	--
MW-6	10/17/19	3806.08	--	--	0.00	Dry	92.78
MW-6	2/20/20	3806.08	--	--	--	Dry	92.72
MW-6	4/30/20	3806.08	--	--	--	Dry	92.72
MW-6	5/20/20	3806.08	--	--	--	Dry	92.72
MW-6	6/17/20	3806.08	--	--	--	Dry	92.76
MW-6	7/28/20	3806.08	--	--	--	Dry	92.76
MW-6	8/26/20	3806.08	--	--	--	Dry	92.75
MW-6	9/2/20	3806.08	--	--	--	Dry	92.69
MW-6	10/21/20	3806.08	--	--	--	Dry	92.69
MW-6	11/5/20	3806.08	--	--	--	Dry	92.75
MW-6	12/8/20	3806.08	--	--	--	Dry	97.78
MW-6	1/27/21	3806.08	--	--	--	Dry	92.78
MW-6	2/2/21	3806.08	--	--	--	Dry	92.73
MW-6	3/18/21	3806.08	--	--	--	Dry	92.72
MW-6	3/26/21	3806.08	--	--	--	Dry	92.70
MW-6	4/27/21	3806.08	--	--	--	Dry	92.72
MW-6	5/4/21	3806.08	--	--	--	Dry	92.78
MW-6	6/28/21	3806.08	--	--	--	Dry	92.70

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-6	7/27/21	3806.08	--	--	--	Dry	92.69
MW-6	8/3/21	3806.08	--	--	--	Dry	92.69
MW-6	9/30/21	3806.08	--	--	--	Dry	92.73
MW-6	10/28/21	3806.08	--	--	--	Dry	92.73
MW-6	11/1/21	3806.08	--	--	--	Dry	92.73
MW-6	2/7/22	3806.08	--	--	--	Dry	92.71
MW-6	3/15/22	3806.08	--	--	--	Dry	92.71
MW-6	4/11/22	3806.08	--	--	--	Dry	92.71
MW-6	5/10/22	3806.08	--	--	--	Dry	92.71
MW-6	6/15/22	3806.08	--	--	--	Dry	92.71
MW-6	7/28/22	3806.08	--	--	--	Dry	92.71
MW-6	8/9/22	3806.08	--	--	--	Dry	92.71
MW-6	11/21/22	3806.08	--	--	--	Dry	92.71
MW-7	4/5/17	3806.05	93.73	--	0.00	3712.32	109.39
MW-7	6/21/17	3806.05	94.33	--	0.00	3711.72	109.38
MW-7	9/25/17	3806.05	94.42	--	0.00	3711.63	109.55
MW-7	11/28/17	3806.05	93.06	--	0.00	3712.99	109.55
MW-7	2/23/18	3806.05	93.18	--	0.00	3712.87	109.35
MW-7	5/24/18	3806.05	95.32	--	0.00	3710.73	109.43
MW-7	8/23/18	3806.05	97.63	--	0.00	3708.42	109.35
MW-7	11/16/18	3806.05	95.72	--	0.00	3710.33	109.23
MW-7	2/18/19	3806.05	94.85	--	0.00	3711.20	109.22
MW-7	5/21/19	3806.05	95.48	--	0.00	3710.57	--
MW-7	8/23/19	3806.05	97.90	--	0.00	3708.15	--
MW-7	10/17/19	3806.05	95.81	--	0.00	3710.24	--
MW-7	2/20/20	3806.05	94.23	--	0.00	3711.82	109.35
MW-7	4/30/20	3806.05	97.41	--	0.00	3708.64	-
MW-7	5/20/20	3806.05	98.18	--	0.00	3707.87	-
MW-7	6/17/20	3806.05	96.46	--	0.00	3709.59	-
MW-7	7/28/20	3806.05	98.84	--	0.00	3707.21	-
MW-7	8/26/20	3806.05	99.37	--	0.00	3706.68	--
MW-7	9/2/20	3806.05	99.58	--	0.00	3706.47	110.44
MW-7	10/21/20	3806.05	98.08	--	0.00	3707.97	--
MW-7	11/5/20	3806.05	97.63	--	0.00	3708.42	110.44
MW-7	12/8/20	3806.05	98.42	--	0.00	3707.63	--
MW-7	1/27/21	3806.05	97.09	--	0.00	3708.96	--
MW-7	2/2/21	3806.05	96.89	--	0.00	3709.16	109.95
MW-7	3/18/21	3806.05	98.89	--	0.00	3707.16	--
MW-7	3/26/21	3806.05	99.48	--	0.00	3706.57	--
MW-7	4/27/21	3806.05	100.35	--	0.00	3705.70	--
MW-7	5/4/21	3806.05	99.39	--	0.00	3706.66	--
MW-7	6/28/21	3806.05	99.53	--	0.00	3706.52	--
MW-7	7/27/21	3806.05	98.55	--	0.00	3707.50	--
MW-7	8/3/21	3806.05	99.46	--	0.00	3706.59	109.95
MW-7	9/30/21	3806.05	99.65	--	0.00	3706.40	109.95
MW-7	10/28/21	3806.05	99.18	--	0.00	3706.87	109.95
MW-7	11/1/21	3806.05	99.67	--	0.00	3706.38	109.95
MW-7	2/7/22	3806.05	98.26	--	0.00	3707.79	109.16
MW-7	3/15/22	3806.05	99.63	--	0.00	3706.42	109.16
MW-7	4/11/22	3806.05	101.05	--	0.00	3705.00	109.16
MW-7	5/10/22	3806.05	101.91	--	0.00	3704.14	109.16
MW-7	6/15/22	3806.05	107.86	--	0.00	3698.19	109.16
MW-7	7/28/22	3806.05	102.62	--	0.00	3703.43	109.16
MW-7	8/9/22	3806.05	102.85	--	0.00	3703.20	109.16
MW-7	11/21/22	3806.05	100.70	--	0.00	3705.35	109.16
MW-8	4/5/17	3805.89	93.50	--	0.00	3712.39	94.88
MW-8	6/21/17	3805.89	94.07	--	0.00	3711.82	94.88
MW-8	9/25/17	3805.89	94.00	--	0.00	3711.89	94.95
MW-8	11/28/17	3805.89	92.56	--	0.00	3713.33	94.95
MW-8	2/23/18	3805.89	92.69	--	0.00	3713.20	94.84
MW-8	5/24/18	3805.89	--	--	--	Dry	94.92
MW-8	8/23/18	3805.89	--	--	--	Dry	94.90
MW-8	11/16/18	3805.89	--	--	--	Dry	94.88

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-8	2/18/19	3805.89	--	--	--	Dry	94.87
MW-8	5/21/19	3805.89	--	--	--	Dry	--
MW-8	8/23/19	3805.89	--	--	--	Dry	--
MW-8	10/17/19	3805.89	--	--	--	Dry	94.86
MW-8	2/20/20	3805.89	--	--	--	Dry	93.71
MW-8	4/30/20	3805.89	--	--	--	Dry	94.95
MW-8	5/20/20	3805.89	--	--	--	Dry	94.95
MW-8	6/17/20	3805.89	--	--	--	Dry	94.93
MW-8	7/28/20	3805.89	--	--	--	Dry	94.94
MW-8	8/26/20	3805.89	--	--	--	Dry	94.94
MW-8	9/2/20	3805.89	--	--	--	Dry	94.88
MW-8	10/21/20	3805.89	--	--	--	Dry	94.88
MW-8	11/5/20	3805.89	--	--	--	Dry	94.94
MW-8	12/8/20	3805.89	--	--	--	Dry	94.96
MW-8	1/27/21	3805.89	--	--	--	Dry	95.09
MW-8	2/2/21	3805.89	--	--	--	Dry	95.04
MW-8	3/18/21	3805.89	--	--	--	Dry	95.27
MW-8	3/26/21	3805.89	--	--	--	Dry	94.89
MW-8	4/27/21	3805.89	--	--	--	Dry	94.96
MW-8	5/4/21	3805.89	--	--	--	Dry	95.07
MW-8	6/28/21	3805.89	--	--	--	Dry	94.89
MW-8	7/27/21	3805.89	--	--	--	Dry	94.88
MW-8	8/3/21	3805.89	--	--	--	Dry	94.88
MW-8	9/30/21	3805.89	--	--	--	Dry	95.04
MW-8	10/28/21	3805.89	--	--	--	Dry	95.04
MW-8	11/1/21	3805.89	--	--	--	Dry	95.04
MW-8	2/7/22	3805.89	--	--	--	Dry	94.87
MW-8	3/15/22	3805.89	--	--	--	Dry	94.87
MW-8	4/11/22	3805.89	--	--	--	Dry	94.87
MW-8	5/10/22	3805.89	--	--	--	Dry	94.87
MW-8	6/15/22	3805.89	--	--	--	Dry	94.87
MW-8	7/28/22	3805.89	--	--	--	Dry	94.87
MW-8	8/9/22	3805.89	--	--	--	Dry	94.87
MW-8	11/21/22	3805.89	--	--	--	Dry	94.87
MW-9	4/5/17	3806.02	94.53	--	0.00	3711.49	108.67
MW-9	6/21/17	3806.02	95.02	--	0.00	3711.00	108.70
MW-9	9/25/17	3806.02	94.55	--	0.00	3711.47	108.65
MW-9	11/28/17	3806.02	92.88	--	0.00	3713.14	108.65
MW-9	2/23/18	3806.02	93.13	--	0.00	3712.89	108.64
MW-9	5/24/18	3806.02	95.65	--	0.00	3710.37	108.65
MW-9	8/23/18	3806.02	98.65	--	0.00	3707.37	108.60
MW-9	11/16/18	3806.02	96.28	--	0.00	3709.74	108.60
MW-9	2/18/19	3806.02	95.13	--	0.00	3710.89	108.45
MW-9	5/21/19	3806.02	95.70	--	0.00	3710.32	--
MW-9	8/23/19	3806.02	98.50	--	0.00	3707.52	--
MW-9	10/17/19	3806.02	95.59	--	0.00	3710.43	--
MW-9	2/20/20	3806.022	93.92	--	0.00	3712.10	108.55
MW-9	4/30/20	3806.022	98.25	--	0.00	3707.77	--
MW-9	5/20/20	3806.022	99.04	--	0.00	3706.98	--
MW-9	6/17/20	3806.022	96.59	--	0.00	3709.43	--
MW-9	7/28/20	3806.022	99.75	--	0.00	3706.27	--
MW-9	8/26/20	3806.022	100.28	--	0.00	3705.74	--
MW-9	9/2/20	3806.022	100.52	--	0.00	3705.50	110.13
MW-9	10/21/20	3806.022	98.05	--	0.00	3707.97	--
MW-9	11/5/20	3806.022	97.63	--	0.00	3708.39	110.13
MW-9	12/8/20	3806.022	98.62	--	0.00	3707.40	--
MW-9	1/27/21	3806.022	96.91	--	0.00	3709.11	--
MW-9	2/2/21	3806.022	96.70	--	0.00	3709.32	108.82
MW-9	3/18/21	3806.022	99.60	--	0.00	3706.42	--
MW-9	3/26/21	3806.022	100.29	--	0.00	3705.73	--
MW-9	4/27/21	3806.022	101.30	--	0.00	3704.72	--
MW-9	5/4/21	3806.022	99.74	--	0.00	3706.28	--
MW-9	6/28/21	3806.022	100.07	--	0.00	3705.95	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-9	7/27/21	3806.022	98.67	--	0.00	3707.35	--
MW-9	8/3/21	3806.022	100.06	--	0.00	3705.96	108.82
MW-9	9/30/21	3806.022	99.67	--	0.00	3706.35	108.82
MW-9	10/28/21	3806.022	99.42	--	0.00	3706.60	108.82
MW-9	11/1/21	3806.022	100.11	--	0.00	3705.91	108.82
MW-9	2/7/22	3806.02	98.04	--	0.00	3707.98	108.65
MW-9	3/15/22	3806.02	100.09	--	0.00	3705.93	108.65
MW-9	4/11/22	3806.02	101.87	--	0.00	3704.15	108.65
MW-9	5/10/22	3806.02	102.89	--	0.00	3703.13	108.65
MW-9	6/15/22	3806.02	101.50	--	0.00	3704.52	108.65
MW-9	7/28/22	3806.02	103.60	--	0.00	3702.42	108.65
MW-9	8/9/22	3806.02	103.82	--	0.00	3702.20	108.65
MW-9	11/21/22	3806.02	100.78	--	0.00	3705.24	108.65
MW-10	4/5/17	3806.08	--	--	--	Dry	95.69
MW-10	6/21/17	3806.08	--	--	--	Dry	95.66
MW-10	9/25/17	3806.08	95.44	--	0.00	3710.64	95.76
MW-10	11/28/17	3806.08	93.06	--	0.00	3713.02	95.79
MW-10	2/23/18	3806.08	93.45	--	0.00	3712.63	95.73
MW-10	5/24/18	3806.08	--	--	--	Dry	95.79
MW-10	8/23/18	3806.08	--	--	--	Dry	95.75
MW-10	11/16/18	3806.08	--	--	--	Dry	95.73
MW-10	2/18/19	3806.08	--	--	--	Dry	95.71
MW-10	5/21/19	3806.08	--	--	--	Dry	--
MW-10	8/23/19	3806.08	--	--	--	Dry	--
MW-10	10/17/19	3806.08	--	--	--	Dry	95.70
MW-10	2/20/20	3806.08	--	--	--	Dry	95.80
MW-10	4/30/20	3806.08	--	--	--	Dry	95.76
MW-10	5/20/20	3806.08	--	--	--	Dry	95.80
MW-10	6/17/20	3806.08	--	--	--	Dry	95.76
MW-10	7/28/20	3806.08	--	--	--	Dry	95.76
MW-10	8/26/20	3806.08	--	--	--	Dry	95.76
MW-10	9/2/20	3806.08	--	--	--	Dry	95.72
MW-10	10/21/20	3806.08	--	--	--	Dry	95.72
MW-10	11/5/20	3806.08	--	--	--	Dry	95.80
MW-10	12/8/20	3806.08	--	--	--	Dry	95.80
MW-10	1/27/21	3806.08	--	--	--	Dry	95.82
MW-10	2/2/21	3806.08	--	--	--	Dry	95.82
MW-10	3/18/21	3806.08	--	--	--	Dry	95.88
MW-10	3/26/21	3806.08	--	--	--	Dry	95.76
MW-10	4/27/21	3806.08	--	--	--	Dry	95.83
MW-10	5/4/21	3806.08	--	--	--	Dry	95.84
MW-10	6/28/21	3806.08	--	--	--	Dry	95.76
MW-10	7/27/21	3806.08	--	--	--	Dry	95.75
MW-10	8/3/21	3806.08	--	--	--	Dry	95.75
MW-10	9/30/21	3806.08	--	--	--	Dry	95.82
MW-10	10/28/21	3806.08	--	--	--	Dry	95.82
MW-10	11/1/21	3806.08	--	--	--	Dry	95.82
MW-10	2/7/22	3806.08	--	--	--	Dry	95.76
MW-10	3/15/22	3806.08	--	--	--	Dry	95.76
MW-10	4/11/22	3806.08	--	--	--	Dry	95.76
MW-10	5/10/22	3806.08	--	--	--	Dry	95.76
MW-10	6/15/22	3806.08	--	--	--	Dry	95.76
MW-10	7/28/22	3806.08	--	--	--	Dry	95.76
MW-10	8/9/22	3806.08	--	--	--	Dry	95.76
MW-10	11/21/22	3806.08	--	--	--	Dry	95.76
MW-11	11/16/18	3805.88	98.80	--	0.00	3707.08	110.05
MW-11	2/18/19	3805.88	97.72	--	0.00	3708.16	110.15
MW-11	5/21/19	3805.88	97.20	--	0.00	3708.68	--
MW-11	8/23/19	3805.88	101.02	--	0.00	3704.86	--
MW-11	10/17/19	3805.88	95.53	--	0.00	3710.35	--
MW-11	2/20/20	3805.88	93.83	--	0.00	3712.05	109.85
MW-11	4/30/20	3805.88	101.61	--	0.00	3704.27	--
MW-11	5/20/20	3805.88	102.55	--	0.00	3703.33	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-11	6/17/20	3805.88	97.71	--	0.00	3708.17	--
MW-11	7/28/20	3805.88	103.21	--	0.00	3702.67	--
MW-11	8/26/20	3805.88	103.67	--	0.00	3702.21	--
MW-11	9/2/20	3805.88	103.92	--	0.00	3701.96	110.05
MW-11	10/21/20	3805.88	98.05	--	0.00	3707.83	--
MW-11	11/5/20	3805.88	97.88	--	0.00	3708.00	110.05
MW-11	12/8/20	3805.88	99.00	--	0.00	3706.88	--
MW-11	1/27/21	3805.88	96.83	--	0.00	3709.05	--
MW-11	2/2/21	3805.88	96.57	--	0.00	3709.31	110.20
MW-11	2/24/21	3805.88	99.21	--	0.00	3706.67	110.06
MW-11	3/18/21	3805.88	102.98	--	0.00	3702.90	--
MW-11	3/26/21	3805.88	103.81	--	0.00	3702.07	--
MW-11	4/27/21	3805.88	104.69	--	0.00	3701.19	--
MW-11	5/4/21	3805.88	100.24	--	0.00	3705.64	--
MW-11	6/28/21	3805.88	101.69	--	0.00	3704.19	--
MW-11	7/27/21	3805.88	99.71	--	0.00	3706.17	--
MW-11	8/3/21	3805.88	102.77	--	0.00	3703.11	110.06
MW-11	9/30/21	3805.88	99.85	--	0.00	3706.03	110.20
MW-11	10/28/21	3805.88	101.27	--	0.00	3704.61	110.20
MW-11	11/1/21	3805.88	102.93	--	0.00	3702.95	110.20
MW-11	2/7/22	3805.88	97.94	--	0.00	3707.94	110.14
MW-11	3/15/22	3805.88	102.46	--	0.00	3703.42	110.14
MW-11	4/11/22	3805.88	105.22	--	0.00	3700.66	110.14
MW-11	5/10/22	3805.88	106.39	--	0.00	3699.49	110.14
MW-11	6/15/22	3805.88	105.56	--	0.00	3700.32	110.14
MW-11	7/28/22	3805.88	107.90	--	0.00	3697.98	110.14
MW-11	8/9/22	3805.88	107.31	--	0.00	3698.57	110.14
MW-11	11/21/22	3805.88	101.04	--	0.00	3704.84	110.14
MW-12	11/16/18	3806.04	96.95	--	0.00	3709.09	110.07
MW-12	2/18/19	3806.04	95.93	--	0.00	3710.11	110.04
MW-12	5/21/19	3806.04	96.23	--	0.00	3709.81	--
MW-12	8/23/19	3806.04	99.53	--	0.00	3706.51	--
MW-12	10/17/19	3806.04	95.73	--	0.00	3710.31	--
MW-12	2/20/20	3806.04	93.96	--	0.00	3712.08	110.01
MW-12	3/26/20	3806.04	94.67	--	0.00	3711.37	110.07
MW-12	4/2/20	3806.04	96.80	--	0.00	3709.24	--
MW-12	4/10/20	3806.04	97.92	--	0.00	3708.12	--
MW-12	4/17/20	3806.04	98.60	--	0.00	3707.44	--
MW-12	4/20/20	3806.04	98.82	--	0.00	3707.22	--
MW-12	4/30/20	3806.04	99.46	--	0.00	3706.58	--
MW-12	5/6/20	3806.04	99.80	--	0.00	3706.24	--
MW-12	5/12/20	3806.04	100.10	--	0.00	3705.94	--
MW-12	5/20/20	3806.04	100.35	--	0.00	3705.69	--
MW-12	6/17/20	3806.04	--	--	--	--	--
MW-12	7/28/20	3806.04	--	--	--	--	--
MW-12	8/26/20	3806.04	101.62	--	0.00	3704.42	--
MW-12	9/2/20	3806.04	101.80	--	0.00	3704.24	110.01
MW-12	10/21/20	3806.04	--	--	--	--	--
MW-12	11/5/20	3806.04	97.89	--	0.00	3708.15	110.01
MW-12	12/8/20	3806.04	--	--	0.00	--	110.01
MW-12	1/27/21	3806.04	--	--	0.00	--	--
MW-12	2/2/21	3806.04	96.76	--	0.00	3709.28	110.09
MW-12	3/18/21	3806.04	100.79	--	0.00	3705.25	110.09
MW-12	3/26/21	3806.04	101.58	--	0.00	3704.46	--
MW-12	4/27/21	3806.04	102.56	--	0.00	3703.48	--
MW-12	5/4/21	3806.04	100.16	--	0.00	3705.88	--
MW-12	6/28/21	3806.04	--	--	0.00	--	--
MW-12	7/27/21	3806.04	99.18	--	0.00	3706.86	--
MW-12	8/3/21	3806.04	101.06	--	0.00	3704.98	110.09
MW-12	9/30/21	3806.04	99.99	--	0.00	3706.05	110.09
MW-12	10/28/21	3806.04	99.99	--	0.00	3706.05	110.09
MW-12	11/1/21	3806.04	101.06	--	0.00	3704.98	110.09
MW-12	2/7/22	3806.04	98.99	--	0.00	3707.05	110.07

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (Feet, NAVD88)	Depth to Groundwater (Feet BTOC)	Depth to LNAPL (Feet BTOC)	Thickness of LNAPL (Feet)	Corrected Groundwater Elevation (Feet, NAVD88)	Total Depth of Well (Feet BTOC)
MW-12	3/15/22	3806.04	100.88	--	0.00	3705.16	110.07
MW-12	4/11/22	3806.04	--	--	--	--	110.07
MW-12	5/10/22	3806.04	104.81	--	0.00	3701.23	110.07
MW-12	6/15/22	3806.04	--	--	--	--	110.07
MW-12	7/28/22	3806.04	104.90	--	0.00	3701.14	110.07
MW-12	8/1/22	3806.04	105.01	--	0.00	3701.03	110.07
MW-12	8/9/22	3806.04	105.08	--	0.00	3700.96	110.07
MW-12	8/15/22	3806.04	105.27	--	0.00	3700.77	110.07
MW-12	8/31/22	3806.04	104.21	--	0.00	3701.83	110.07
MW-12	9/8/22	3806.04	103.77	--	0.00	3702.27	110.07
MW-12	9/23/22	3806.04	102.74	--	0.00	3703.30	110.07
MW-12	9/29/22	3806.04	101.57	--	0.00	3704.47	110.07
MW-12	10/6/22	3806.04	100.94	--	0.00	3705.10	110.07
MW-12	11/16/22	3806.04	102.27	--	0.00	3703.77	110.07
MW-12	11/21/22	3806.04	100.94	--	0.00	3705.10	110.07

Notes:

1. Monitoring well gauging data listed prior to October 2016 were reported by Basin Environmental Service Technologies, LLC
2. NAVD88 - North American Vertical Datum of 1988
3. BTOC - Below Top-Of-Casing
4. -- = No gauging data collected on corresponding date
5. Dry - No fluid column measured in corresponding monitoring well

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-1	4/5/17	Dry	--	--	--
MW-1	6/21/17	Dry	--	--	--
MW-1	9/25/17	Dry	--	--	--
MW-1	11/28/17	Dry	--	--	--
MW-1	2/23/18	Dry	--	--	--
MW-1	5/25/18	Dry	--	--	--
MW-1	8/29/18	Dry	--	--	--
MW-1	9/17/18	P&A	--	--	--
MW-1R	11/16/18	**0.425**	<0.000412	<0.000160	**0.000760 J**
MW-1R	2/19/19	**0.243**	<0.000412	<0.000160	<0.000510
MW-1R	5/22/19	**0.0594**	<0.000412	<0.000160	<0.000510
MW-1R	8/23/19	**0.709**	<0.000412	<0.000160	**0.00640 J**
MW-1R	10/18/19	**0.530**	<0.00206	<0.000800	<0.00255
MW-1R	2/21/20	**0.170**	<0.00206	<0.000800	<0.00255
MW-1R	5/21/20	**0.513**	<0.000412	<0.000160	<0.000720
MW-1R	9/3/20	**0.162**	**0.000813 J**	<0.000160	**0.000787 J**
MW-1R	11/5/20	**0.458**	<0.00412	<0.00160	<0.00510
MW-1R	2/3/21	**0.00131**	<0.000412	<0.000160	<0.000510
MW-1R (DUP)	2/3/21	**0.00104**	<0.000412	<0.000160	<0.000510
MW-1R	3/19/21	**0.138**	<0.000412	<0.000160	**0.00593 J**
MW-1R	5/5/21	**0.0956**	<0.000412	<0.000160	<0.000510
MW-1R	8/4/21	**0.0702**	<0.000412	<0.000160	**0.00713 J**
MW-1R	11/2/21	**0.0570**	<0.000412	<0.000160	<0.000510
MW-1R	2/8/22	**0.0141**	<0.000412	<0.000160	<0.000510
MW-1R	5/11/22	**0.00224**	<0.000412	<0.000160	<0.000510
MW-1R	8/10/22	**0.00371**	<0.000412	<0.000160	<0.000510
MW-1R	11/21/22	**0.00460**	<0.000412	<0.000160	<0.000510
MW-2	4/5/17	Dry	--	--	--
MW-2	6/21/17	Dry	--	--	--
MW-2	9/25/17	Dry	--	--	--
MW-2	11/28/17	Dry	--	--	--
MW-2	2/23/18	Dry	--	--	--
MW-2	5/25/18	Dry	--	--	--
MW-2	8/29/18	Dry	--	--	--
MW-2	9/17/18	P&A	--	--	--
MW-2R	11/16/18	**0.163**	<0.000412	<0.000160	**0.00198**
MW-2R	2/19/19	**0.0944**	<0.000412	<0.000160	**0.00102 J**
MW-2R	5/22/19	**0.0124**	<0.000412	<0.000160	**0.00104 J**
MW-2R	8/23/19	**0.212**	<0.000412	<0.000160	**0.00102 J**
MW-2R	10/18/19	**0.223**	<0.000412	<0.000160	**0.000602 J**
MW-2R	2/21/20	**0.0969**	<0.000412	<0.000160	**0.000801 J**
MW-2R	5/21/20	**0.0987**	<0.000412	<0.000160	<0.000510

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-2R	9/3/20	**0.0773**	<0.000412	<0.000160	<0.000510
MW-2R	11/5/20	**0.0924**	<0.000412	<0.000160	<0.000510
MW-2R	2/3/21	**1.42**	<0.000412	<0.000160	<0.000510
MW-2R	3/19/21	**0.0877**	<0.000412	<0.000160	<0.000510
MW-2R	5/5/21	**0.132**	<0.000412	<0.000160	<0.000510
MW-2R	8/4/21	**0.0388**	<0.000412	<0.000160	<0.000510
MW-2R	11/2/21	**0.00691**	<0.000412	<0.000160	<0.000510
MW-2R	2/8/22	**0.0403**	<0.000412	<0.000160	<0.000510
MW-2R	5/11/22	**0.117**	<0.000412	<0.000160	<0.000510
MW-2R	8/10/22	**0.0468**	<0.000412	<0.000160	**0.00149 J**
MW-2R	11/21/22	**0.0280**	<0.000412	<0.000160	<0.000510
MW-3	6/21/17	Dry	--	--	--
MW-3	9/25/17	Dry	--	--	--
MW-3	11/28/17	Dry	--	--	--
MW-3	2/23/18	Dry	--	--	--
MW-3	5/25/18	Dry	--	--	--
MW-3	8/29/18	Dry	--	--	--
MW-3	9/17/18	P&A	--	--	--
MW-3R	11/16/18	**0.0243**	<0.000412	**0.00134**	**0.00318**
MW-3R	2/19/19	**0.00102**	<0.000412	<0.000160	<0.000510
MW-3R	5/22/19	**0.0208**	<0.000412	**0.000553**	**0.00713 J**
MW-3R	8/23/19	**0.0223**	**0.000645 J**	**0.00326**	**0.00295**
MW-3R	10/18/19	**0.0303**	**0.00199**	**0.0029**	**0.00280**
MW-3R (DUP)	10/18/19	**0.0220**	<0.000412	**0.00204**	**0.00217**
MW-3R	2/21/20	**0.0114**	<0.000412	**0.000698**	**0.000937 J**
MW-3R	5/21/20	**0.000684**	<0.000412	<0.000160	<0.000510
MW-3R	9/3/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-3R	11/5/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-3R (DUP)	11/5/20	<0.000190	<0.000412	**0.000364 J**	**0.00112 J**
MW-3R	2/3/21	**0.000235 J**	<0.000412	<0.000160	<0.000510
MW-3R	3/18/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-3R	5/5/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-3R	8/4/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-3R	11/1/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-3R	2/8/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-3R	5/11/22	<0.000190	<0.000412	**0.00563**	**0.000615 J**
MW-3R	8/10/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-3R	11/21/22	**0.0642**	<0.000412	<0.000160	<0.000510
MW-4	4/5/17	Dry	--	--	--
MW-4	6/21/17	Dry	--	--	--
MW-4	9/25/17	Dry	--	--	--
MW-4	11/28/17	Dry	--	--	--
MW-4	2/23/18	Dry	--	--	--
MW-4	5/25/18	Dry	--	--	--
MW-4	8/29/18	Dry	--	--	--

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-4	9/17/18	P&A	--	--	--
MW-4R	11/16/18	**1.10**	<0.000412	<0.000160	**0.0226**
MW-4R	2/19/19	**1.49**	<0.000412	<0.000160	**0.00903**
MW-4R	5/22/19	**0.537**	<0.00206	<0.000800	**0.00569 J**
MW-4R	8/23/19	**1.15**	<0.00824	<0.00320	<0.0102
MW-4R (DUP)	8/23/19	**1.27**	<0.000412	<0.000160	0.00547
MW-4R	10/18/19	**1.29**	<0.00412	<0.00160	<0.00510
MW-4R	2/21/20	**1.04**	<0.00412	<0.00160	**0.0119 J**
MW-4R	5/21/20	**0.918**	<0.000412	<0.000160	**0.00132 J**
MW-4R	9/3/20	**1.58 J6**	<0.000412	<0.000160	<0.000510
MW-4R	11/5/20	**2.43**	<0.00824	<0.00320	<0.0102
MW-4R	2/3/21	**0.000935**	<0.000412	<0.000160	<0.000510
MW-4R	3/19/21	**1.07**	<0.000412	<0.000160	**0.00821 J**
MW-4R (DUP)	3/18/21	**0.961**	<0.000412	<0.000160	**0.000588 J**
MW-4R	5/5/21	**1.31**	<0.000412	<0.000160	<0.000510
MW-4R (DUP)	5/5/21	**1.36**	<0.000412	<0.000160	<0.000510
MW-4R	8/4/21	**1.61**	<0.000412	<0.000160	<0.000510
MW-4R (DUP)	8/4/21	**1.61**	<0.000412	<0.000160	<0.000510
MW-4R	11/2/21	**1.48**	<0.00412	<0.00160	<0.00510
MW-4R (DUP)	11/2/21	**1.54**	<0.000412	<0.000160	**0.00571**
MW-4R	2/8/22	**0.505**	<0.00412	<0.00160	<0.00510
MW-4R (DUP)	2/8/22	**0.489**	<0.00412	<0.00160	<0.00510
MW-4R	5/11/22	**0.675**	<0.00412	**0.000424 J**	<0.00510
MW-4R	8/10/22	**0.115**	<0.00412	<0.00160	<0.00510
MW-4R	11/21/22	**0.276**	<0.00412	<0.00160	<0.00510
MW-5	4/5/17	Dry	--	--	--
MW-5	6/21/17	Dry	--	--	--
MW-5	9/25/17	Dry	--	--	--
MW-5	11/28/17	Dry	--	--	--
MW-5	2/23/18	Dry	--	--	--
MW-5	5/25/18	Dry	--	--	--
MW-5	8/29/18	Dry	--	--	--
MW-5	9/17/18	P&A	--	--	--

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-5R	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	2/19/19	**0.000239 J**	<0.000412	<0.000160	<0.000510
MW-5R	5/22/19	**0.000313 J**	<0.000412	<0.000160	<0.000510
MW-5R	8/23/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	10/18/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	2/21/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	5/21/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R (DUP)	5/21/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	9/3/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	11/5/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	2/3/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	3/18/21	<0.000190	<0.000412	<0.000160	**0.000788 J**
MW-5R	5/4/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	8/4/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	11/1/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	2/8/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-5R	5/11/22	<0.000190	<0.000412	**0.000489 J**	**0.000780 J**
MW-5R	8/10/22	**0.0698**	<0.000412	<0.000160	<0.000510
MW-5R	11/21/22	**0.3870**	**0.00217**	**0.002120**	**0.000874 J**
MW-6	4/5/17	Dry	--	--	--
MW-6	6/21/17	Dry	--	--	--
MW-6	9/25/17	Dry	--	--	--
MW-6	11/28/17	Dry	--	--	--
MW-6	2/19/19	Dry	--	--	--
MW-6	5/22/19	Dry	--	--	--
MW-6	8/23/19	Dry	--	--	--
MW-6	10/18/19	Dry	--	--	--
MW-6	2/21/20	Dry	--	--	--
MW-6	5/21/20	Dry	--	--	--
MW-6	9/3/20	Dry	--	--	--
MW-6	11/5/20	Dry	--	--	--
MW-6	2/3/21	Dry	--	--	--
MW-6	3/18/21	Dry	--	--	--
MW-6	5/4/21	Dry	--	--	--
MW-6	8/4/21	Dry	--	--	--
MW-6	11/21/21	Dry	--	--	--
MW-7	4/5/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-7	6/21/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-7	9/25/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-7	11/28/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-7	2/23/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-7	5/25/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-7 (DUP)	5/25/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-7	8/29/18	<0.000500	<0.00100	<0.000500	<0.00150

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-7	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	2/19/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	5/22/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	8/23/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	10/18/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	2/21/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	5/21/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	9/3/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	11/5/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	2/3/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	3/18/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	5/4/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	8/3/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	11/1/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	2/7/22	**0.000266 J**	<0.000412	<0.000160	<0.000510
MW-7	5/11/22	<0.000190	<0.000412	**0.000411 J**	<0.000510
MW-7	8/10/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	11/21/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-8	4/5/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-8	9/25/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-8	5/25/18	Dry	--	--	--
MW-8	8/29/18	Dry	--	--	--
MW-8	11/16/18	Dry	--	--	--
MW-8	2/19/19	Dry	--	--	--
MW-8	5/22/19	Dry	--	--	--
MW-8	8/23/19	Dry	--	--	--
MW-8	10/18/19	Dry	--	--	--
MW-8	2/21/20	Dry	--	--	--
MW-8	5/21/20	Dry	--	--	--
MW-8	9/3/20	Dry	--	--	--
MW-8	11/5/20	Dry	--	--	--
MW-8	2/3/21	Dry	--	--	--
MW-8	3/18/21	Dry	--	--	--
MW-8	5/4/21	Dry	--	--	--
MW-8	8/4/21	Dry	--	--	--
MW-8	11/21/21	Dry	--	--	--

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-9	4/5/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-9(DUP)	4/5/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-9	6/21/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-9 D(DUP)	6/21/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-9	9/25/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-9 (DUP)	9/25/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-9	11/28/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-9 (DUP)	11/28/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-9	2/23/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-9	5/25/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-9	8/29/18	<0.000500	<0.00100	**0.00289**	**0.00249**
MW-9 (DUP)	8/29/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-9	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	2/19/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	5/22/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	8/23/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	10/18/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	2/21/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	5/21/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	9/3/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	11/5/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	2/3/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	3/18/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	5/5/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	8/3/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	11/1/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	2/7/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	5/11/22	**0.000249 J**	<0.000412	<0.000160	<0.000510
MW-9	8/10/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	11/21/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	4/5/17	Dry	--	--	--
MW-10	6/21/17	Dry	--	--	--
MW-10	9/25/17	Dry	--	--	--
MW-10	11/28/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-10	2/23/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-10 (DUP)	2/23/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-10	5/25/18	Dry	--	--	--
MW-10	8/29/18	Dry	--	--	--
MW-10	11/16/18	Dry	--	--	--
MW-10	5/22/19	Dry	--	--	--
MW-10	8/23/19	Dry	--	--	--
MW-10	10/18/19	Dry	--	--	--
MW-10	2/21/20	Dry	--	--	--
MW-10	5/21/20	Dry	--	--	--
MW-10	9/3/20	Dry	--	--	--
MW-10	11/5/20	Dry	--	--	--

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-10	2/3/21	Dry	--	--	--
MW-10	3/18/21	Dry	--	--	--
MW-10	5/4/21	Dry	--	--	--
MW-10	8/3/21	Dry	--	--	--
MW-10	2/7/22	Dry	--	--	--
MW-10	5/10/22	Dry	--	--	--
MW-10	8/9/22	Dry	--	--	--
MW-10	11/21/22	Dry	--	--	--
MW-11	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	2/19/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	5/22/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	8/23/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	10/18/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	2/21/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	5/21/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	9/3/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	11/5/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	2/3/21	**0.381**	<0.000412	<0.000160	<0.000510
MW-11	2/24/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	3/18/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	5/5/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	8/3/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	11/1/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	2/7/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	5/11/22	<0.000190	<0.000412	**0.000409 J**	<0.000510
MW-11	8/10/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	11/21/22	**0.000212 J**	<0.000412	<0.000160	<0.000510
MW-12	11/16/18	**0.0481**	<0.000412	<0.000160	**0.00116 J**
MW-12	2/19/19	**0.0649**	<0.000412	<0.000160	**0.00144 J**
MW-12	5/22/19	**0.0445**	<0.000412	<0.000160	**0.00350**
MW-12 (DUP)	5/22/19	**0.0374**	<0.000412	<0.000160	**0.00351**
MW-12	8/23/19	**0.309**	<0.00206	<0.00800	**0.00727 J**
MW-12	10/18/19	**0.869**	<0.00206	<0.000800	**0.00445 J**
MW-12 (DUP)	10/18/19	**0.714**	<0.000412	<0.000160	**0.00535**
MW-12	2/21/20	**0.931**	<0.000412	<0.000160	**0.00269 J**
MW-12 (DUP)	2/21/20	**0.124**	<0.000412	<0.000160	**0.000625 J**
MW-12	5/21/20	**0.599**	<0.000412	<0.000160	**0.00160**
MW-12 (DUP)	5/21/20	**0.583**	<0.000412	<0.000160	**0.00113**
MW-12	9/3/20	**0.336**	**0.00488 J**	<0.000160	**0.00609 J**
MW-12	11/5/20	**1.28**	<0.00412	<0.00160	<0.00510
MW-12	2/3/21	**0.00464**	<0.000412	<0.000160	<0.000510
MW-12	3/18/21	**0.355**	<0.000412	<0.000160	**0.00284 J**
MW-12	5/5/21	**0.880**	<0.000412	<0.000160	<0.000510
MW-12	8/3/21	**0.105**	<0.000412	<0.000160	**0.000783 J**
MW-12	11/2/21	**0.233**	<0.000412	<0.000160	<0.000510

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-12	2/7/22	**0.391**	<0.000412	**0.000162 J**	**0.00103 J**
MW-12	5/11/22	**0.291**	<0.000412	**0.000406 J**	<0.000510
MW-12	9/13/22	**0.137**	<0.000412	<0.000160	<0.000510
MW-12	11/21/22	**0.632**	<0.000412	<0.000160	<0.000510
MW-12 (DUP)	11/21/22	**0.475**	<0.000412	<0.000160	<0.000510
Goff Dairy Well	4/5/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy Well	6/21/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy Well	9/7/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy Well	3/21/18	<0.000408	**0.000640 J**	<0.000657	<0.000630
Goff Dairy Well	6/20/18	<0.000408	<0.000367	<0.000657	<0.000630
Goff Dairy Well	8/29/18	<0.000500	<0.00100	<0.000500	<0.00150
Goff Dairy Well	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Well DUP-2	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Well	2/19/19	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Well	5/22/19	Off	--	--	--
Goff Dairy Well	8/23/19	**0.000260 J**	<0.000412	<0.000160	<0.000510
Goff Dairy Well	10/18/19	Off	--	--	--
Goff Dairy Well	4/1/20	<0.000190	<0.000412	<0.000160	**0.000850 J**
Goff Dairy Well	7/2/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Well	9/3/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Well	11/5/20	Off	--	--	--
Goff Dairy Well	3/18/21	Off	--	--	--
Goff Dairy Well	6/11/21	**0.000795**	<0.000412	<0.000160	<0.000510
Goff Dairy Well	8/4/21	Off	--	--	--
Goff Dairy Well	11/1/21	**0.000452 J**	<0.000412	<0.000160	<0.000510
Goff Dairy Well	8/9/22	**0.000498 J**	<0.000412	<0.000160	<0.000510
Goff Dairy Well	11/21/22	Off	--	--	--
Goff Dairy - Ctr. Pivot Well	4/5/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy - Ctr. Pivot Well	6/21/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy - Ctr. Pivot Well	9/7/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy - Ctr. Pivot Well	3/21/18	<0.000408	<0.000367	<0.000657	<0.000630
Goff Dairy - Ctr. Pivot Well	6/20/18	<0.000408	<0.000367	<0.000657	<0.000630
Goff Dairy - Ctr. Pivot Well	8/29/18	<0.000500	<0.00100	<0.000500	<0.00150
Goff Dairy - Ctr. Pivot Well	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well (Dup1)	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
Goff Dairy - Ctr. Pivot Well	2/19/19	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well (Dup)	2/19/19	**0.000299 J**	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well (Dup1)	5/22/19	Off	--	--	--
Goff Dairy - Ctr. Pivot Well	8/23/19	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well	10/18/19	Off	--	--	--
Goff Dairy - Ctr. Pivot Well	3/26/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well	7/2/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well	9/24/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well	11/5/20	Off	--	--	--
Goff Dairy - Ctr. Pivot Well	3/18/21	Off	--	--	--
Goff Dairy - Ctr. Pivot Well	6/11/21	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well	8/4/21	Off	--	--	--
Goff Dairy - Ctr. Pivot Well	11/1/21	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well	2/21/22	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well	8/9/22	**0.000216 J**	<0.000412	<0.000160	<0.000510
Goff Dairy - Ctr. Pivot Well	11/21/22	Off	--	--	--

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
Goff Dairy Ctr. Pivot Beg.	4/5/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy Ctr. Pivot Beg.	6/21/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy Ctr. Pivot Beg.	9/7/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy Ctr. Pivot Beg.	3/21/18	<0.000408	**0.000630 J**	<0.000657	<0.000630
Goff Dairy Ctr. Pivot Beg.	6/20/18	<0.000408	<0.000367	<0.000657	<0.000630
Goff Dairy Ctr. Pivot Beg.	8/29/18	<0.000500	<0.00100	<0.000500	<0.00150
Goff Dairy Ctr. Pivot Beg.	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	2/19/19	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	5/22/19	Off	--	--	--
Goff Dairy Ctr. Pivot Beg.	8/23/19	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	10/18/19	Off	--	--	--
Goff Dairy Ctr. Pivot Beg.	3/26/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	7/2/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	9/24/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	11/5/20	Off	--	--	--
Goff Dairy Ctr. Pivot Beg.	3/18/21	Off	--	--	--
Goff Dairy Ctr. Pivot Beg.	6/11/21	**0.000347 J**	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	8/4/21	Off	--	--	--
Goff Dairy Ctr. Pivot Beg.	11/1/21	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	2/21/22	**0.000355 J**	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	8/9/22	**0.000219 J**	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot Beg.	11/21/22	Off	--	--	--
Goff Dairy Ctr. Pivot End	4/5/17	<0.00200	<0.00200	<0.00200	<0.00200

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
Goff Dairy Ctr. Pivot End	6/21/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy Ctr. Pivot End	9/7/17	<0.00200	<0.00200	<0.00200	<0.00200
Goff Dairy Ctr. Pivot End	3/21/18	<0.000408	**0.000650 J**	<0.000657	<0.000630
Goff Dairy Ctr. Pivot End	6/20/18	<0.000408	<0.000367	<0.000657	<0.000630
Goff Dairy Ctr. Pivot End	8/29/18	<0.000500	<0.00100	<0.000500	<0.00150
Goff Dairy Ctr. Pivot End	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot End	2/19/19	**0.000228 J**	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot End	5/22/19	Off	--	--	--
Goff Dairy Ctr. Pivot End	8/23/19	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot End	10/18/19	Off	--	--	--
Goff Dairy Ctr. Pivot End	3/26/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot End	7/2/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot End	9/3/20	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot End	11/5/20	Off	--	--	--
Goff Dairy Ctr. Pivot End	3/18/21	Off	--	--	--
Goff Dairy Ctr. Pivot End	6/11/21	**0.000300 J**	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot End	8/4/21	Off	--	--	--
Goff Dairy Ctr. Pivot End	11/1/21	<0.000190	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot End	2/21/22	**0.000363 J**	<0.000412	<0.000160	<0.000510
Goff Dairy Ctr. Pivot End	8/9/22	<0.000190	**0.000637 J**	**0.000304 J**	**0.00111 J**
Goff Dairy Ctr. Pivot End	11/21/22	Off	--	--	--
JW House Well	4/5/17	<0.00200	<0.00200	<0.00200	<0.00200
JW House Well	6/21/17	<0.00200	<0.00200	<0.00200	<0.00200
JW House Well	9/25/17	<0.00200	<0.00200	<0.00200	<0.00200
JW House Well	11/28/17	<0.00200	<0.00200	<0.00200	<0.00200

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.01**	**0.75**	**0.75**	**0.62**
JW House Well	2/23/18	<0.000408	<0.000367	<0.000657	<0.000630
JW House Well	5/25/18	<0.000408	<0.000367	<0.000657	<0.000630
JW House Well	8/29/18	<0.000500	<0.00100	<0.000500	<0.00150
JW House Well	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
JW House Well	2/19/19	NSC	--	--	--
JW House Well	5/22/19	NSC	--	--	--
JW House Well	8/23/19	**0.000242 J**	<0.000412	<0.000160	<0.000510
JW House Well	12/3/19	<0.000190	<0.000412	<0.000160	<0.000510
JW House Well	2/21/20	NSC	--	--	--
JW House Well	5/21/20	NSC	--	--	--
JW House Well	9/3/20	NSC	--	--	--
JW House Well	11/5/20	NSC	--	--	--
JW House Well	3/18/21	NSC	--	--	--
JW House Well	6/11/21	NSC	--	--	--
JW House Well	8/4/21	NSC	--	--	--
JW House Well	11/1/21	<0.000190	<0.000412	<0.000160	<0.000510
JW House Well	8/10/22	**0.000236 J**	<0.000412	<0.000160	<0.000510
JW House Well	11/21/22	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	11/16/18	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	5/22/19	<0.000190	<0.000412	**0.000286 J**	**0.00092 J**
Trip Blank	5/21/20	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	11/21/22	**0.000196 J**	<0.000412	<0.000160	<0.000510

Notes:

1. Sample results listed prior to October 11, 2016 were collected and reported by Basin Environmental Service Technologies, LLC
2. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) analysis by Environmental Protection Agency (EPA) Method SW846-8021B
3. All reported concentrations are reported as milligrams per Liter (mg/L)
4. Bold font Indicates laboratory detection.
5. Yellow shaded cells indicate results exceeding NMWQCC Human Health Standards
6. < = Not detected above the Sample Detection Limit
7. J = Denotes an estimated concentration detected above the Sample Detection Limit and below the Method Quantitation Limit
8. DUP - Duplicate Sample
9. Dry - No fluid column measured in monitoring well
10. NSC - No Sample Collected
11. -- = No analytical data reported for corresponding date
12. P&A - Plugged & Abandoned
13. Off - Goff Dairy center pivot irrigation well and system not in seasonal operation

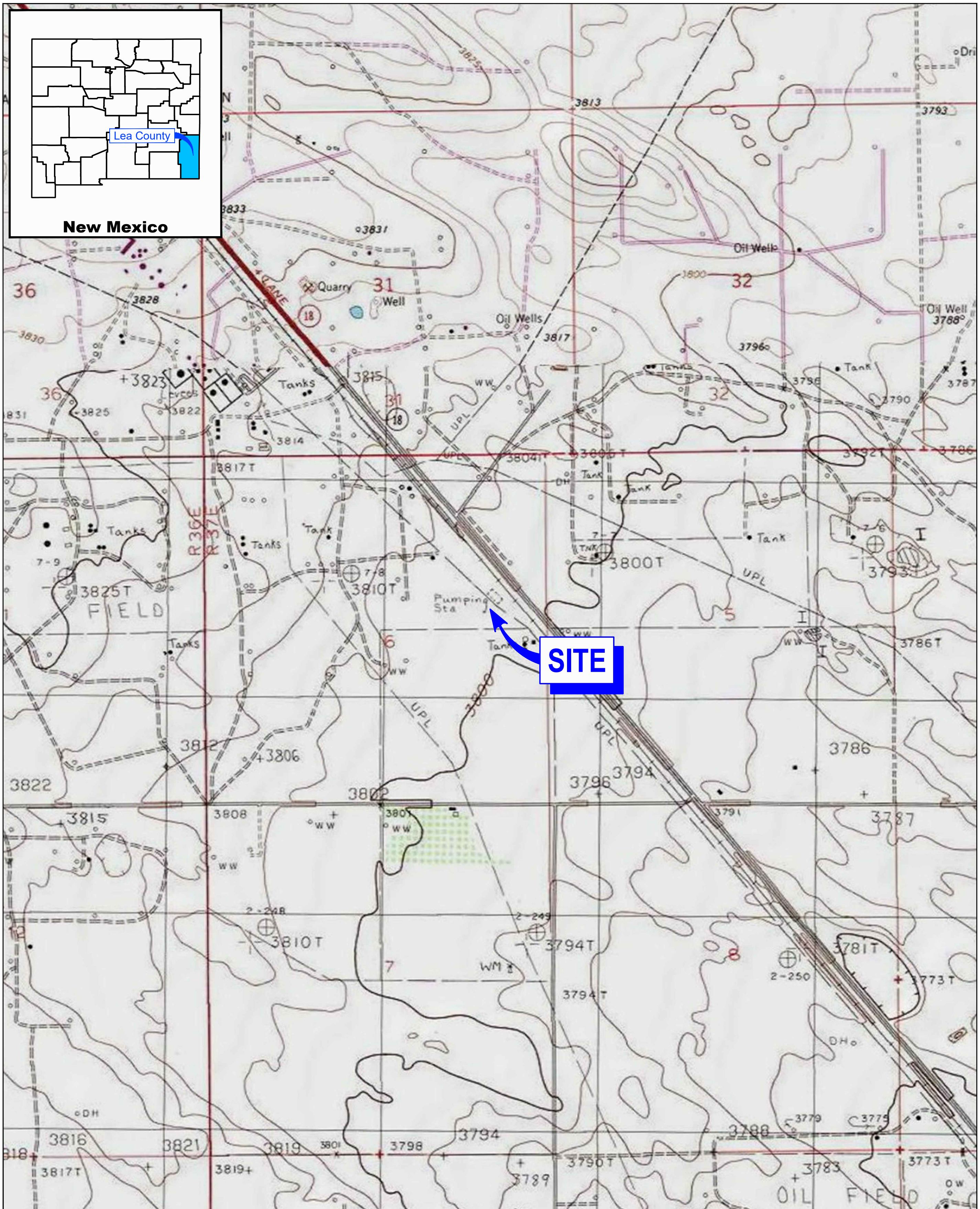
Table 3

Summary of Groundwater PAH Compound Analytical Results
Plains Pipeline, L.P.
Lovington Gathering WTI SRS #2006-142
Lea County, New Mexico
NMOCD AP-96

Monitoring Well ID	Sample Date	Anthracene	Acenaphthene	Acenaphthylene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene
New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards		**0.001**	**0.001**	**0.001**	**0.001**	**0.0002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.03**	**0.001**	**0.001**	**0.03**	**0.03**
MW-1	12/2/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-1	12/18/09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-1R	11/16/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.0000590**	<0.0000157	0.0000101	<0.0000148	**0.00169**	**0.0000203 J**	<0.0000117	**0.000828**	**0.000483**
MW-1R	10/18/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000234**	<0.0000157	**0.0000339 J**	<0.0000148	**0.000829**	**0.0000407 J**	<0.0000117	**0.000471**	**0.000254**
MW-2	12/2/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-2	12/18/09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-2R	11/16/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.0000139 J**	<0.0000157	<0.00000850	<0.0000148	**0.000817**	<0.00000820	<0.0000117	**0.000365**	**0.000131 J**
MW-2R	10/18/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.0000332 J**	<0.0000157	**0.0000120 J**	<0.0000148	**0.000565**	**0.0000250 J**	<0.0000117	**0.000263**	**0.000109 J**
MW-3	12/2/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3	12/18/09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3R	11/16/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000138 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000671 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-3R	10/18/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000499 J**	<0.0000157	<0.00000850	<0.0000148	**0.000204 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-4	12/2/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-4	12/18/09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-4R	11/16/18	<0.0000147	<0.0000105	<0.0000126	<0.00000431	<0.0000122	<0.00000223	<0.00000238	<0.0000143	<0.0000113	<0.00000416	**0.0000967**	<0.0000165	**0.0000192 J**	<0.0000155	**0.00506**	**0.0000305 J**	<0.0000123	**0.00254**	**0.00189**
MW-4R	10/18/19	<0.0000140	**0.0000102 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000226**	<0.0000157	**0.0000407 J**	<0.0000148	<0.0000198	**0.000789**	**0.0000653**	**0.000986**	**0.000308**
MW-5	12/2/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-5	12/18/09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-5R	11/16/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	<0.00000105	<0.0000157	<0.00000850	<0.0000148	**0.0000774 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-5R	10/18/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000523 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000233 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-6	12/2/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-6	12/18/09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-7	12/2/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-7	12/18/09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-8	12/2/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-8	12/18/09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-9	12/2/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-9	9/29/09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-10	12/15/11	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	NA	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102
MW-10	11/27/12	<0.00017	<0.00038	<0.00035	<0.00025	<0.00020	<0.00039	<0.00052	<0.00029	<0.00024	<0.00020	NA	<0.00026	<0.00031	<0.00034	<0.00032	<0.00033	<0.00050	<0.00028	<0.00029
MW-11	11/16/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	<0.00000105	<0.0000157	<0.00000850	<0.0000148	**0.0000424 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-11	10/18/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000473 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000237 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-12	11/16/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000984 J**	<0.0000157	**0.0000128 J**	<0.0000148	**0.0000249 J**	**0.00000954 J**	<0.0000117	**0.0000983 J**	**0.0000355**
MW-12	10/18/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.0000477 J**	<0.0000157	**0.0000104 J**	<0.0000148	**0.000684**	**0.0000162 J**	<0.0000117	**0.000898**	**0.000278**

Notes:

1. Sample results listed from 2008 through 2012 were collected and reported by Basin Environmental Service Technologies, LLC
2. Polycyclic Aromatic Hydrocarbons (PAH) analysis by Environmental Protection Agency (EPA) Method SW846-8270C-SIM
3. All reported concentrations are reported as milligrams per Liter (mg/L)
4. Bold font indicates laboratory detection
5. Green shaded cells indicate results meeting NMWQCC regulatory requirement of 2 consecutive years of PAH compounds below the Human Health standards
6. < = Not detected above the Sample Detection Limit
7. NA - No Analysis
8. J = Denotes an estimated concentration detected above the Sample Detection Limit and below the Method Quantitation Limit
9. NMWQCC Human Health Standard for combined naphthalene + 1-methylnaphthalene + 2-methylnaphthalene is 0.03 mg/L per NMAC 20.6.2.3103 A.(1)(jj)



PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

SITE LOCATION MAP

Project No. 12572711
Date February 2023

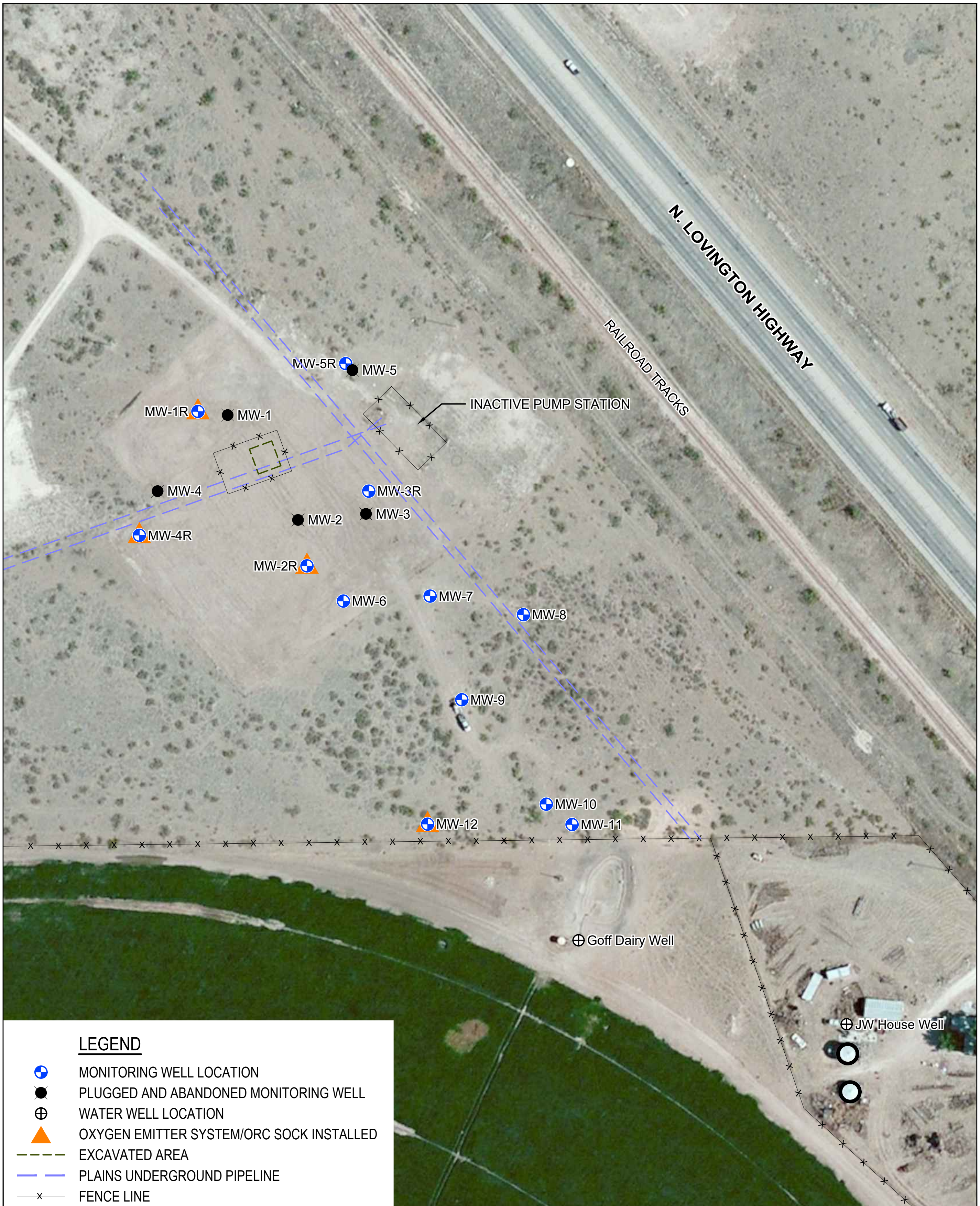
FIGURE 1

0 1000 2000 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711 GHD 0000 RPT EN 0101_DL 2022.dwg

Data Source: USGS 7.5 Minute Quad "Lovington SE and Lovington, New Mexico"
Lat/Long: 32.8649° North, 103.2853° West



0 75 150 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

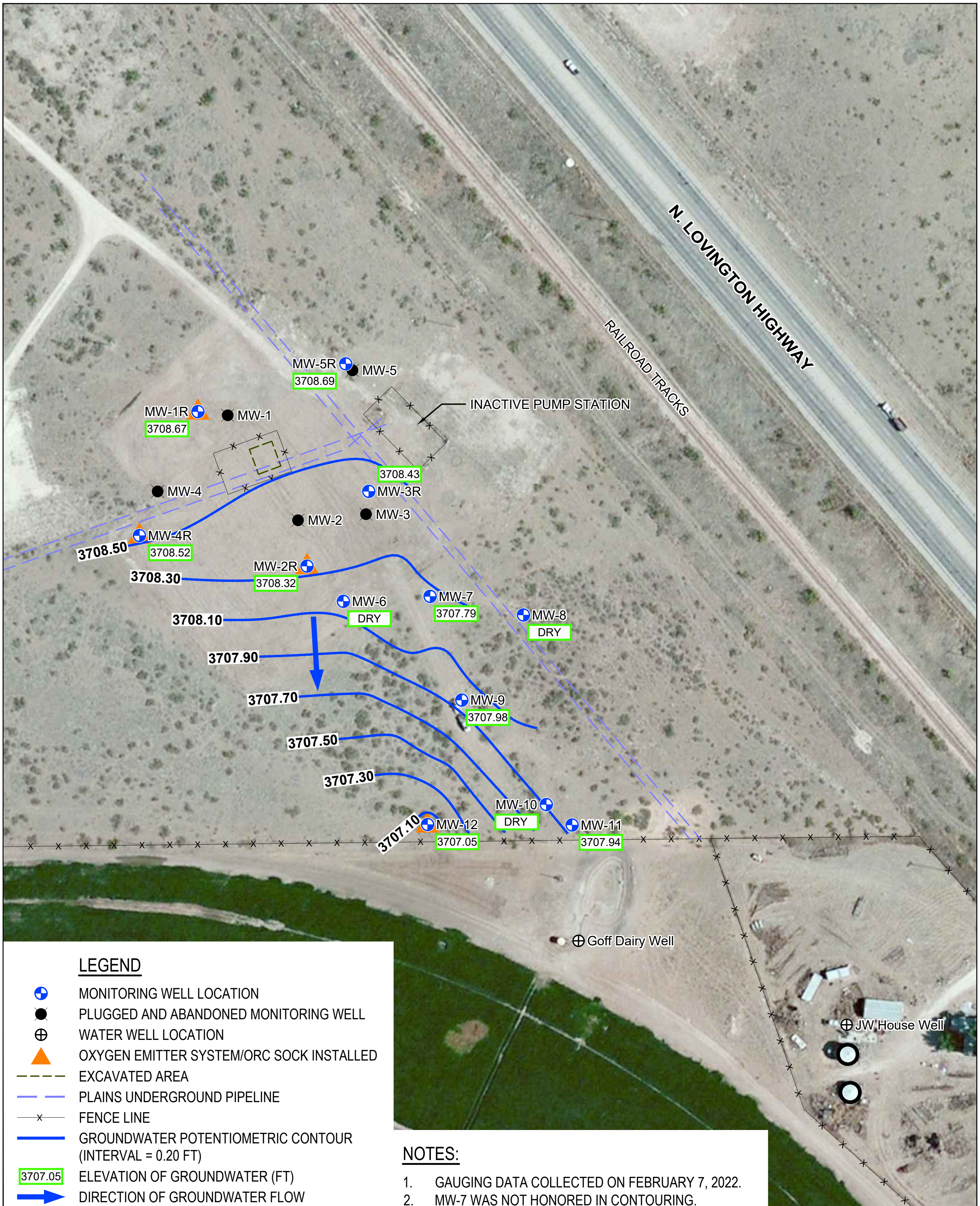
SITE DETAILS MAP

Project No. **12572711**
Date **February 2023**

FIGURE 2

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711 GHD 0000 RPT EN 0101_DL 2022.dwg
Plot Date: 28 February 2023 11:49 AM

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.8649° North, 103.2853° West



LEGEND

- MONITORING WELL LOCATION
- PLUGGED AND ABANDONED MONITORING WELL
- WATER WELL LOCATION
- OXYGEN EMITTER SYSTEM/ORC SOCK INSTALLED
- EXCAVATED AREA
- PLAINS UNDERGROUND PIPELINE
- FENCE LINE
- GROUNDWATER POTENTIOMETRIC CONTOUR (INTERVAL = 0.20 FT)
- 3707.05 ELEVATION OF GROUNDWATER (FT)
- DIRECTION OF GROUNDWATER FLOW

NOTES:

1. GAUGING DATA COLLECTED ON FEBRUARY 7, 2022.
2. MW-7 WAS NOT HONORED IN CONTOURING.

0 75 150 ft

Coordinate System:
NAD 1983 (2011) StatePlane-New Mexico East (US Feet)

N

GHD

PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

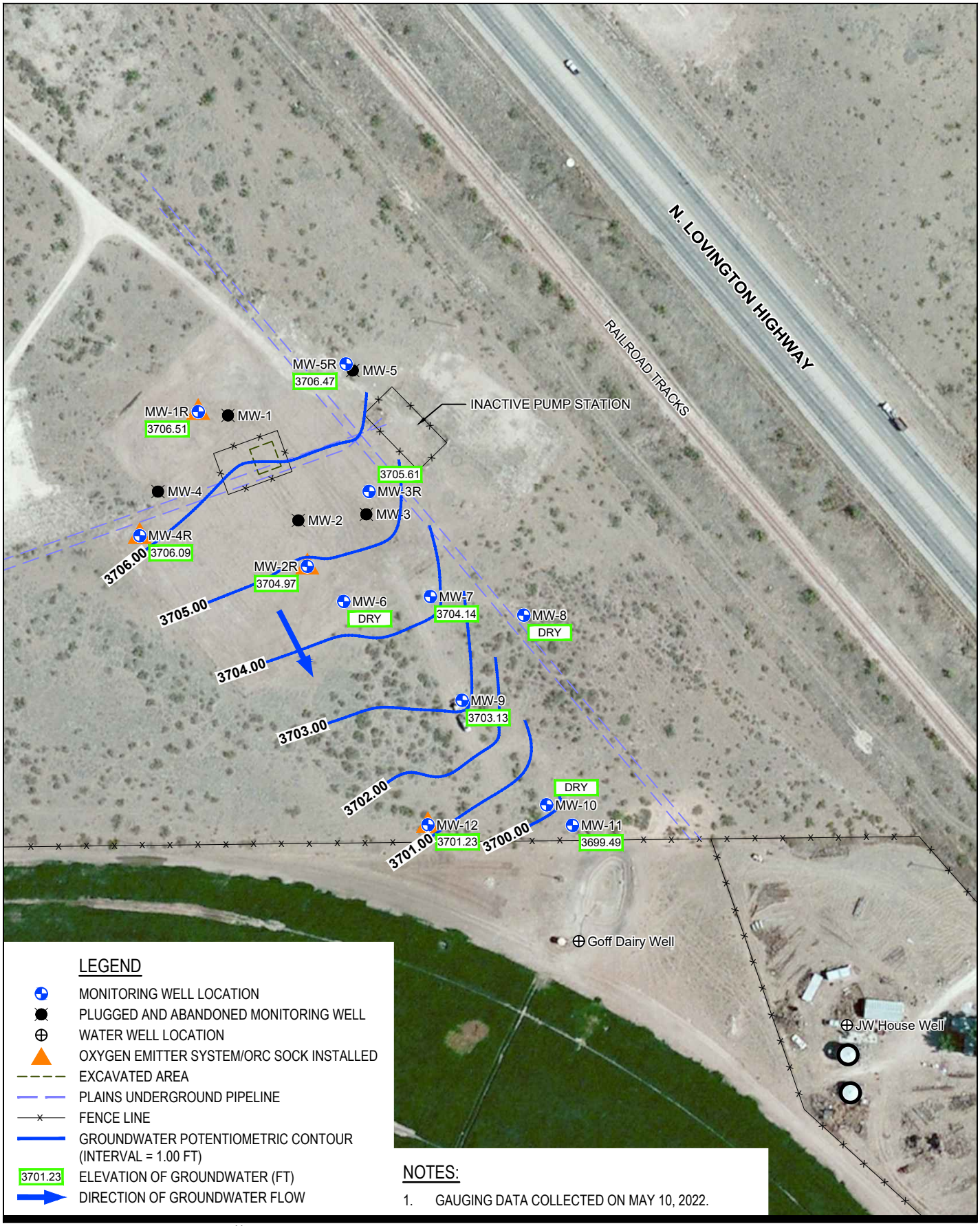
GROUNDWATER GRADIENT MAP
FEBRUARY 7, 2022

Project No. **12572711**
Date **February 2023**

FIGURE 3

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711_GHD_0000_RPT_EN_0101_DL_2022.dwg

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.8649° North, 103.2853° West



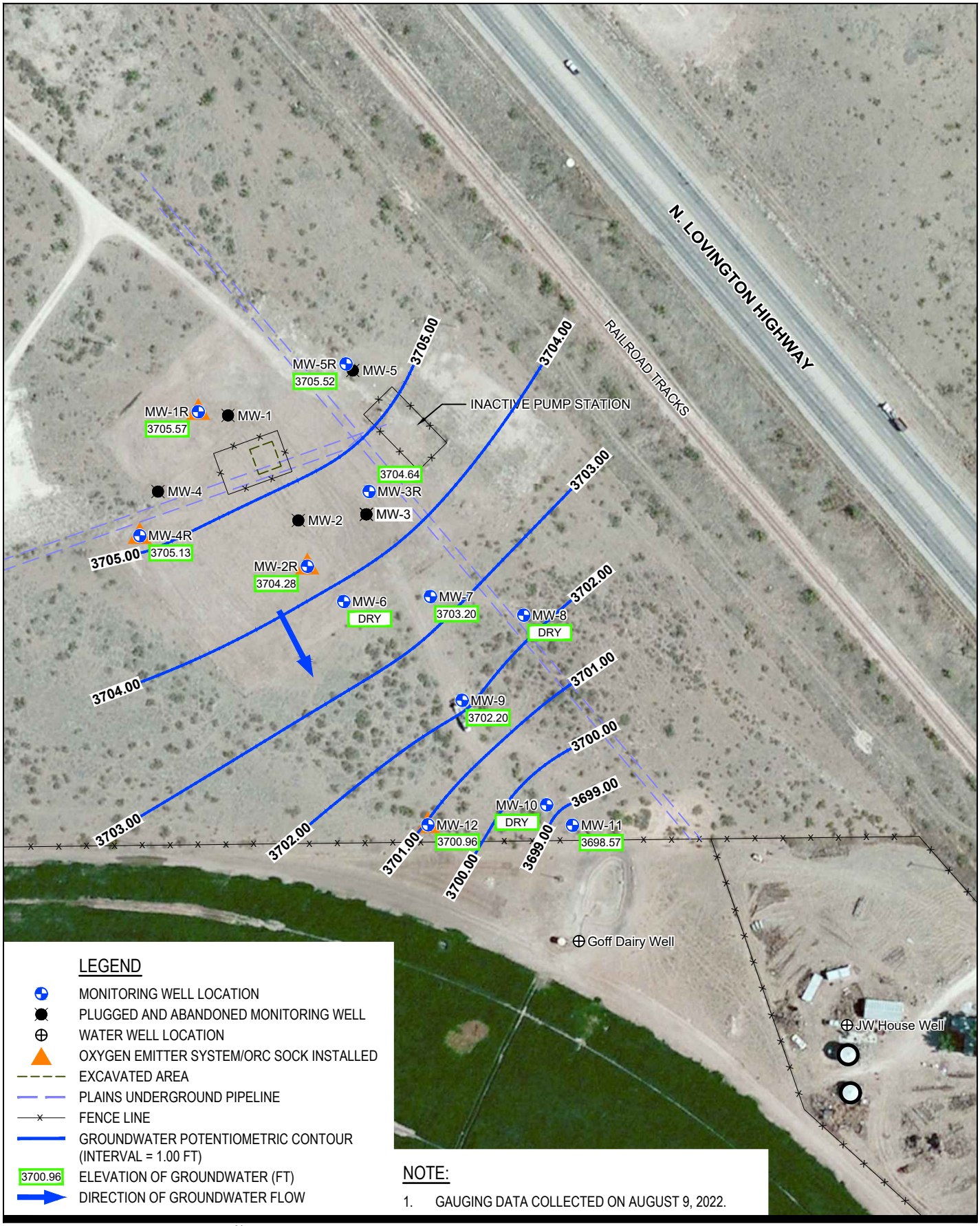
PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

GROUNDWATER GRADIENT MAP
MAY 10, 2022

Project No. **12572711**
Date **February 2023**

FIGURE 4

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711 GHD 0000 RPT EN 0101_DL 2022.dwg
Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.8649° North, 103.2853° West



GHD

PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

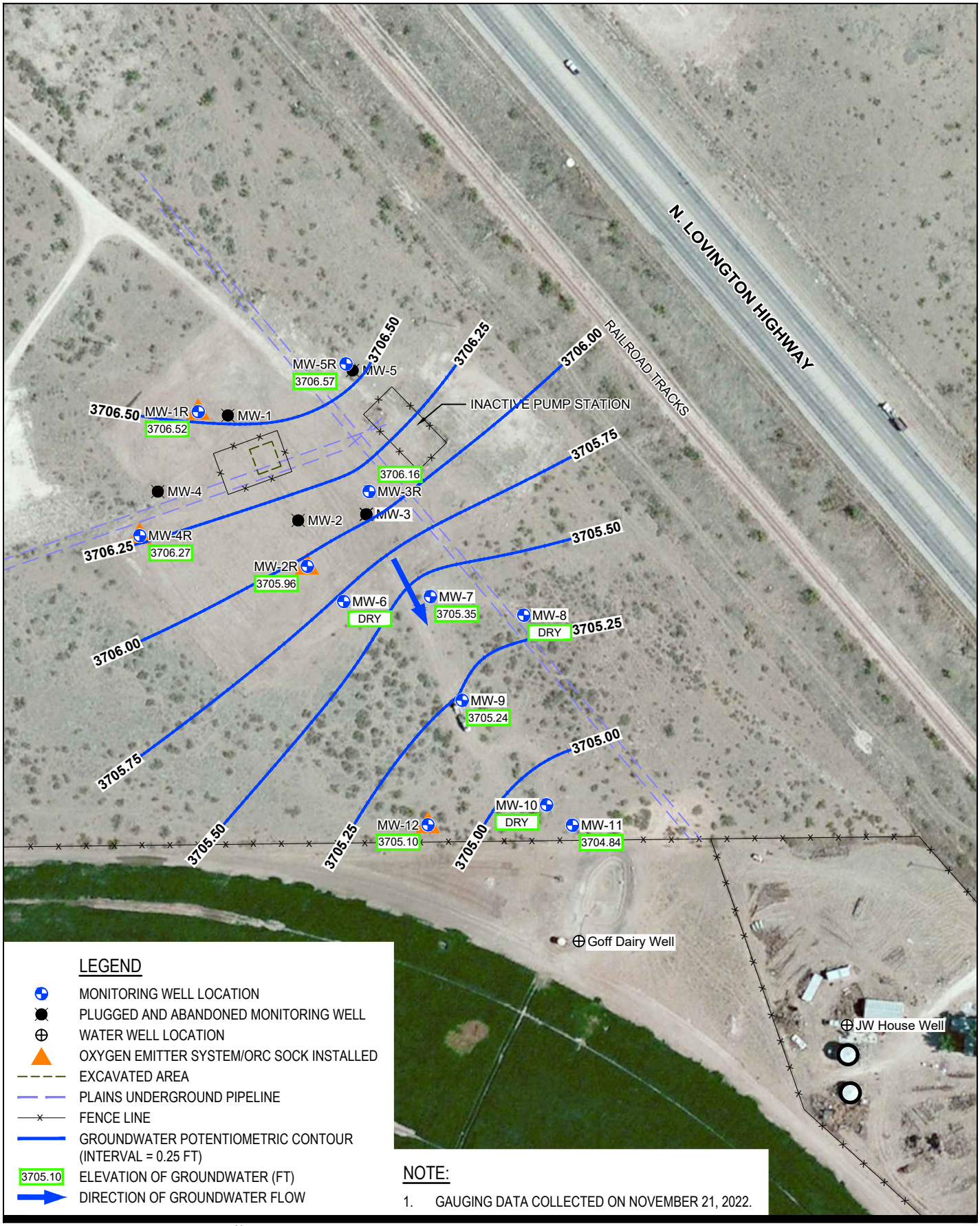
GROUNDWATER GRADIENT MAP
AUGUST 9, 2022

Project No. **12572711**
Date **March 2023**

FIGURE 5

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711 GHD 0000 RPT EN 0101_DL 2022.dwg
Date/Time saved: 3/23/2023 1:46:57 PM

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.8649° North, 103.2853° West



LEGEND

- MONITORING WELL LOCATION
- PLUGGED AND ABANDONED MONITORING WELL
- WATER WELL LOCATION
- OXYGEN EMITTER SYSTEM/ORC SOCK INSTALLED
- EXCAVATED AREA
- PLAINS UNDERGROUND PIPELINE
- FENCE LINE
- GROUNDWATER POTENTIOMETRIC CONTOUR (INTERVAL = 0.25 FT)
- 3705.10 ELEVATION OF GROUNDWATER (FT)
- DIRECTION OF GROUNDWATER FLOW

NOTE:

1. GAUGING DATA COLLECTED ON NOVEMBER 21, 2022.

0 75 150 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

GHD

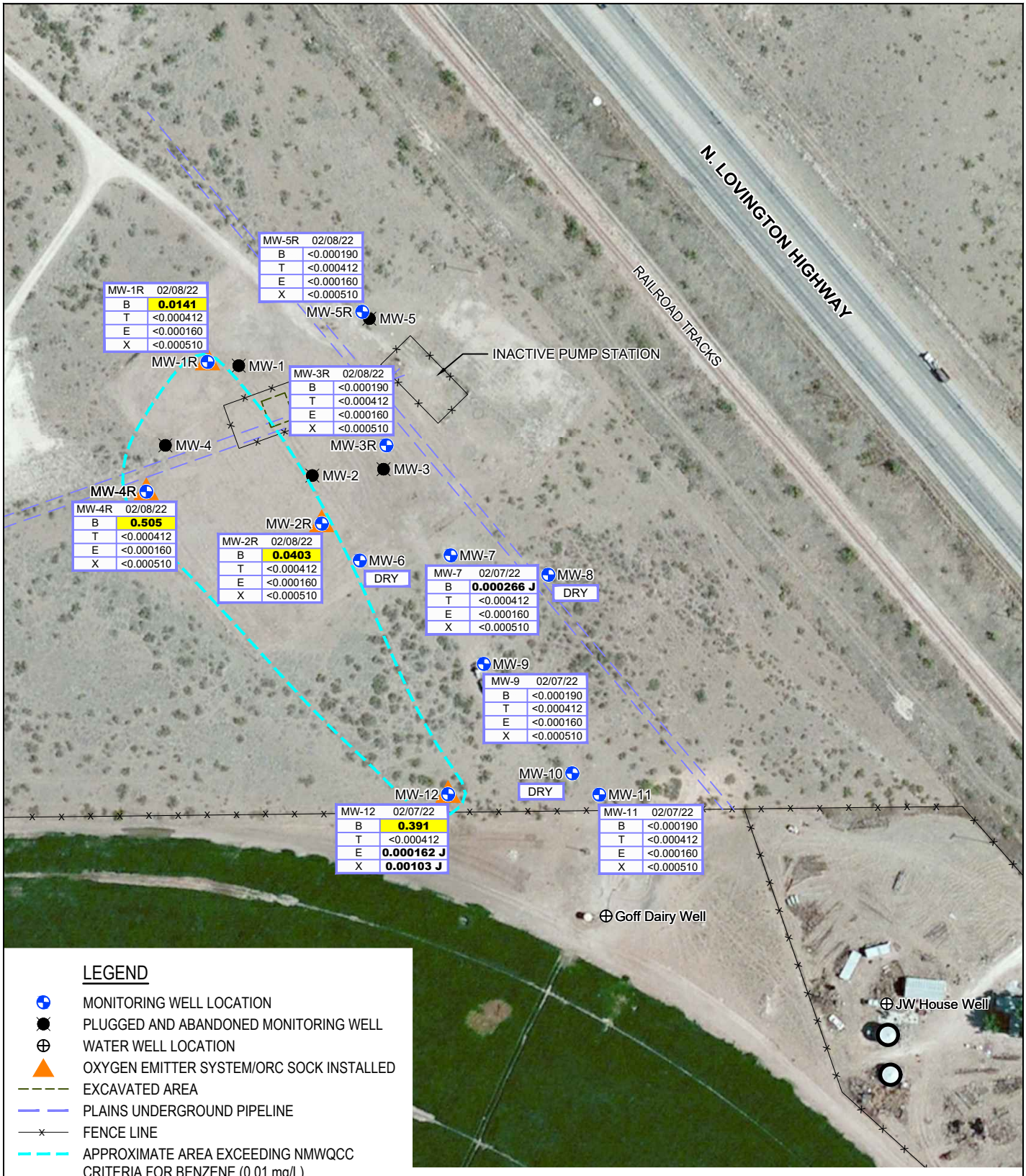
PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

GROUNDWATER GRADIENT MAP
NOVEMBER 21, 2022

Project No. **12572711**
Date **March 2023**

FIGURE 6

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711 GHD 0000 RPT EN 0101_DL 2022.dwg
Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.8649° North, 103.2853° West



LEGEND

- MONITORING WELL LOCATION
- PLUGGED AND ABANDONED MONITORING WELL
- WATER WELL LOCATION
- OXYGEN EMITTER SYSTEM/ORC SOCK INSTALLED
- EXCAVATED AREA
- PLAINS UNDERGROUND PIPELINE
- FENCE LINE
- APPROXIMATE AREA EXCEEDING NMWQCC CRITERIA FOR BENZENE (0.01 mg/L)

SAMPLE LOCATION	MW-12	02/07/22	DATE SAMPLED
BENZENE	B	**0.391**	RESULT (mg/L)
TOLUENE	T	<0.000412	
ETHYLBENZENE	E	**0.000162 J**	
XYLENES	X	**0.00103 J**	

NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON FEBRUARY 7 - 8, 2022.
2. BOLD INDICATES LABORATORY DETECTION.
3. YELLOW SHADED CELLS INDICATE NMWQCC CRITERIA EXCEEDANCE.

0 75 150 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

GHD

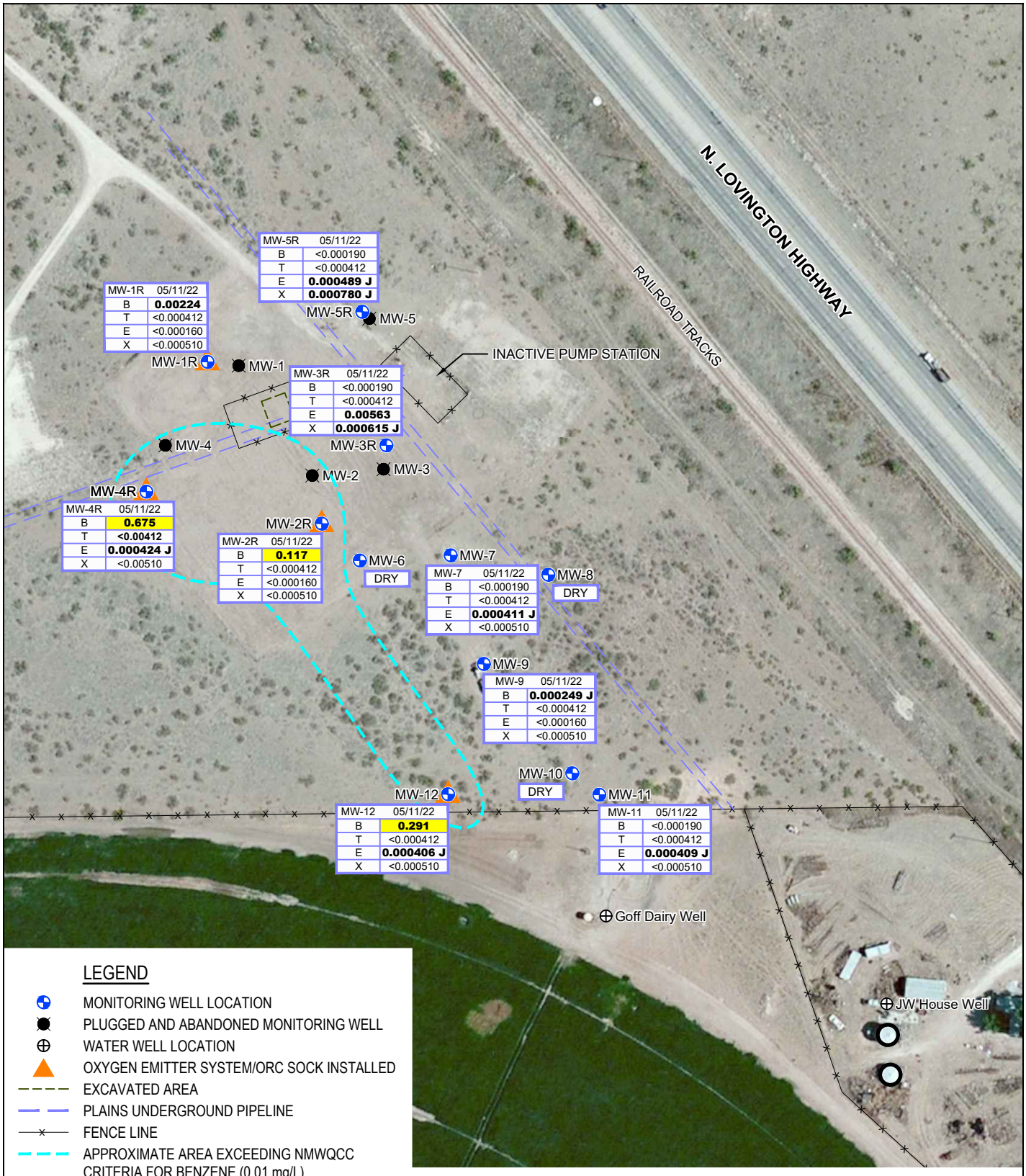
PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

GROUNDWATER BTEX CONCENTRATION MAP
FEBRUARY 7 - 8, 2022

Project No. **12572711**
Date **March 2023**

FIGURE 7

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711 GHD 0000 RPT EN 0101_DL 2022.dwg
Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.8649° North, 103.2853° West



LEGEND

- MONITORING WELL LOCATION
- PLUGGED AND ABANDONED MONITORING WELL
- WATER WELL LOCATION
- OXYGEN EMITTER SYSTEM/ORC SOCK INSTALLED
- EXCAVATED AREA
- PLAINS UNDERGROUND PIPELINE
- FENCE LINE
- APPROXIMATE AREA EXCEEDING NMWQCC CRITERIA FOR BENZENE (0.01 mg/L)

SAMPLE LOCATION	MW-12	05/11/22	DATE SAMPLED
BENZENE	B	**0.291**	RESULT (mg/L)
TOLUENE	T	<0.000412	
ETHYLBENZENE	E	**0.000406 J**	
XYLENES	X	<0.000510	

NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON MAY 11, 2022.
2. BOLD INDICATES LABORATORY DETECTION.
3. YELLOW SHADED CELLS INDICATE NMWQCC CRITERIA EXCEEDANCE.

0 75 150 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

GHD

PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

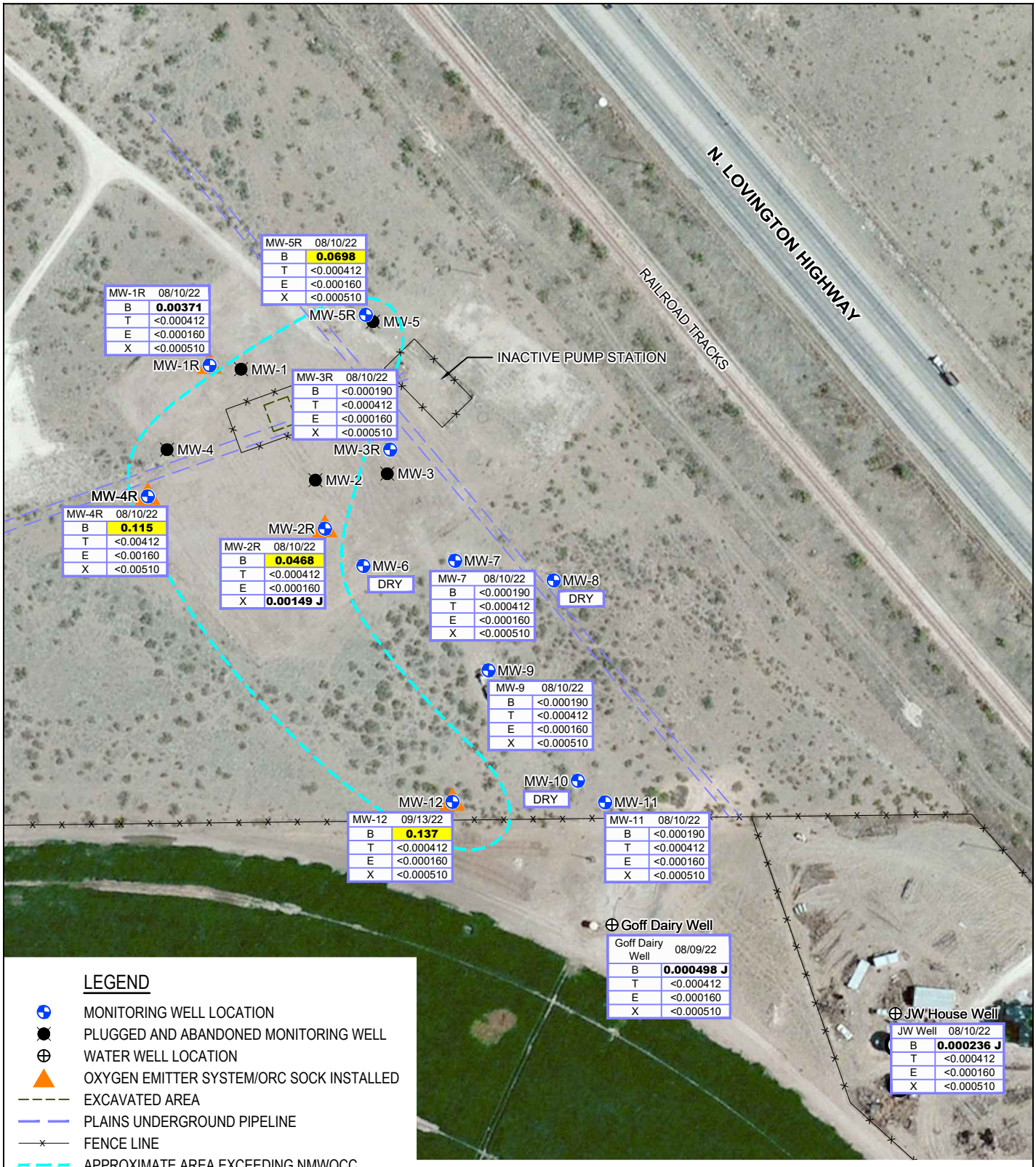
GROUNDWATER BTEX CONCENTRATION MAP
MAY 11, 2022

Project No. **12572711**
Date **March 2023**

FIGURE 8

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711 GHD 0000 RPT EN 0101_DL 2022.dwg

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.8649° North, 103.2853° West



LEGEND

- MONITORING WELL LOCATION
- PLUGGED AND ABANDONED MONITORING WELL
- WATER WELL LOCATION
- OXYGEN EMITTER SYSTEM/ORC SOCK INSTALLED
- EXCAVATED AREA
- PLAINS UNDERGROUND PIPELINE
- FENCE LINE
- APPROXIMATE AREA EXCEEDING NMWQCC CRITERIA FOR BENZENE (0.01 mg/L)

SAMPLE LOCATION	MW-12	09/13/22	DATE SAMPLED
BENZENE	B	0.137	RESULT (mg/L)
TOLUENE	T	<0.000412	
ETHYLBENZENE	E	<0.000160	
XYLENES	X	<0.000510	

NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON AUGUST 9 - 10, 2022.
2. MW-12 WAS RESAMPLED SEPTEMBER 13, 2022.
3. BOLD INDICATES LABORATORY DETECTION.
4. YELLOW SHADED CELLS INDICATE NMWQCC CRITERIA EXCEEDANCE.

0 75 150 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

GHD

PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

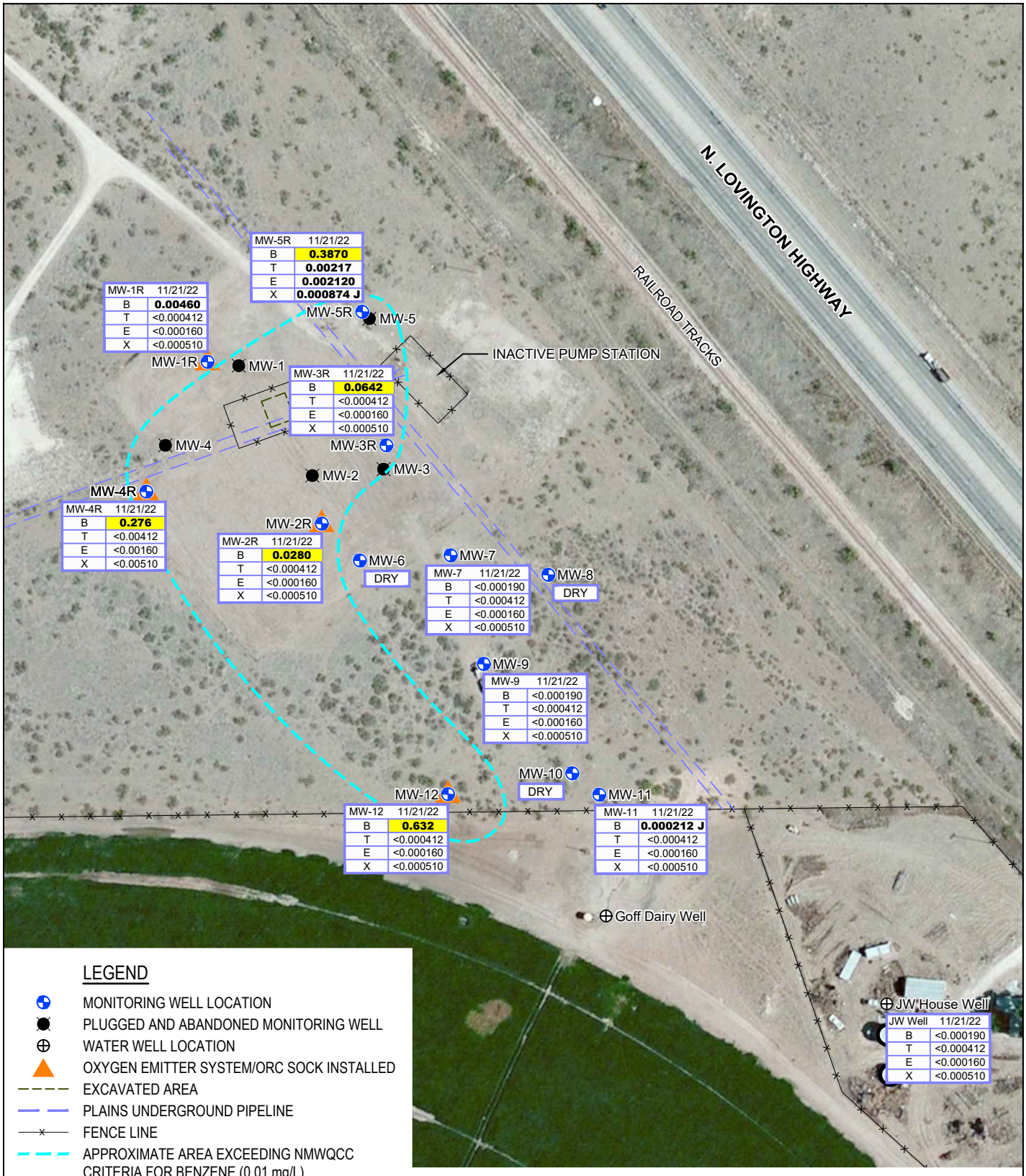
GROUNDWATER BTEX CONCENTRATION MAP
AUGUST 9 - 10, 2022

Project No. **12572711**
Date **March 2023**

FIGURE 9

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711 GHD 0000 RPT EN 0101_DL 2022.dwg

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.8649° North, 103.2853° West



LEGEND

- MONITORING WELL LOCATION
- PLUGGED AND ABANDONED MONITORING WELL
- WATER WELL LOCATION
- OXYGEN EMITTER SYSTEM/ORC SOCK INSTALLED
- EXCAVATED AREA
- PLAINS UNDERGROUND PIPELINE
- FENCE LINE
- APPROXIMATE AREA EXCEEDING NMWQCC CRITERIA FOR BENZENE (0.01 mg/L)

SAMPLE LOCATION	MW-12	11/21/22 (DATE SAMPLED)
BENZENE	B	0.632 (RESULT (mg/L))
TOLUENE	T	<0.000412
ETHYLBENZENE	E	<0.000160
XYLENES	X	<0.000510

NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON NOVEMBER 21, 2022.
2. BOLD INDICATES LABORATORY DETECTION.
3. YELLOW SHADED CELLS INDICATE NMWQCC CRITERIA EXCEEDANCE.

0 75 150 ft

Coordinate System: NAD 1983 (2011) StatePlane- New Mexico East (US Feet)

N

GHD

PLAINS PIPELINE, L.P.
LOVINGTON GATHERING WTI SRS #2006-142
LEA COUNTY, NEW MEXICO
NMOCD AP-96

GROUNDWATER BTEX CONCENTRATION MAP NOVEMBER 21, 2022

Project No. **12572711**
Date **March 2023**

FIGURE 10

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12572711\Digital_Design\ACAD\Figures\2022 GWR\12572711 GHD 0000 RPT EN 0101_DL 2022.dwg

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.8649° North, 103.2853° West

Appendices

Appendix A

Release Notification and Corrective Action, Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Lovington Gathering WTI	Facility Type 6"Steel Pipeline

Surface Owner Robert Rice	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	6	17S	37E					Lea

Latitude 32° 51' 56.0" **Longitude** 103° 17' 07.2"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 12 barrels	Volume Recovered 8 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 4-21-2006 @ 13:00	Date and Hour of Discovery 4-21-2006 @ 13:15
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 4-21-2006 @ 15:35	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken Internal corrosion while purging the line resulted in release of sweet crude oil. The line has been purged. The line is an idle 6-inch steel gathering line. The pressure on the line was approximately 50 psi and the gravity of the sweet crude oil was 34. The sweet crude has an H_2S content of <10 ppm. The line was approximately 1.5 feet bgs at the release point.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was approximately 1,500 ft^2.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Camille Reynolds	OIL CONSERVATION DIVISION
Printed Name: Camille Reynolds	Approved by District Supervisor:
Title: Remediation Coordinator	Approval Date: / Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: / Attached ☐
Date: 4/26/2006 Phone:505-441-0965	

Appendix B

Certified Laboratory Analytical Reports

ANALYTICAL REPORT

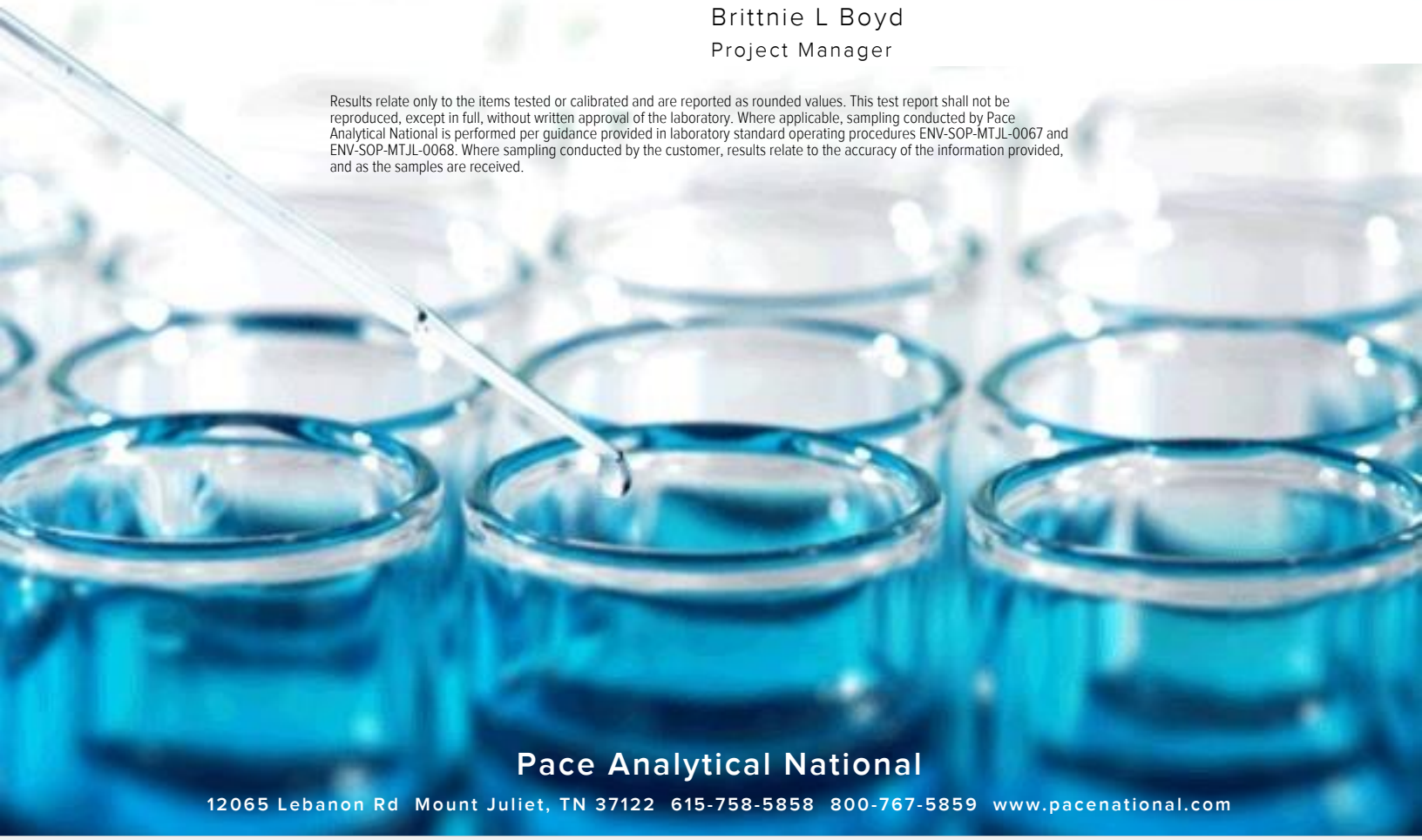
February 17, 2022

Plains All American, LP - GHD

Sample Delivery Group:	L1460342
Samples Received:	02/10/2022
Project Number:	12572711/01
Description:	Lovington Gathering WTI
Site:	SRS 2006-142
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Brittnie L Boyd
Project Manager



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

TABLE OF CONTENTS

MW-12-020722 L1460342-01 GW

Collected by: RL/JM | Collected date/time: 02/07/22 12:45 | Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 11:36	02/12/22 11:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1818292	10	02/15/22 21:32	02/15/22 21:32	JAH	Mt. Juliet, TN

MW-7-020722 L1460342-02 GW

Collected by: RL/JM | Collected date/time: 02/07/22 14:15 | Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 11:59	02/12/22 11:59	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1818292	1	02/15/22 21:54	02/15/22 21:54	JAH	Mt. Juliet, TN

MW-9-020722 L1460342-03 GW

Collected by: RL/JM | Collected date/time: 02/07/22 14:50 | Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 12:22	02/12/22 12:22	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1818292	1	02/15/22 22:16	02/15/22 22:16	JAH	Mt. Juliet, TN

MW-11-020722 L1460342-04 GW

Collected by: RL/JM | Collected date/time: 02/07/22 15:15 | Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 12:45	02/12/22 12:45	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1818292	1	02/15/22 22:38	02/15/22 22:38	JAH	Mt. Juliet, TN

MW-5R-020822 L1460342-05 GW

Collected by: RL/JM | Collected date/time: 02/08/22 12:15 | Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 13:07	02/12/22 13:07	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1818292	1	02/15/22 22:59	02/15/22 22:59	JAH	Mt. Juliet, TN

MW-3R-020822 L1460342-06 GW

Collected by: RL/JM | Collected date/time: 02/08/22 12:20 | Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 13:30	02/12/22 13:30	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1818292	1	02/15/22 23:21	02/15/22 23:21	JAH	Mt. Juliet, TN

MW-1R-020822 L1460342-07 GW

Collected by: RL/JM | Collected date/time: 02/08/22 12:50 | Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 13:53	02/12/22 13:53	JAH	Mt. Juliet, TN

MW-2R-020822 L1460342-08 GW

Collected by: RL/JM
Collected date/time: 02/08/22 12:55
Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 14:16	02/12/22 14:16	JAH	Mt. Juliet, TN

MW-4R-020822 L1460342-09 GW

Collected by: RL/JM
Collected date/time: 02/08/22 13:55
Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 14:39	02/12/22 14:39	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1818922	10	02/16/22 14:18	02/16/22 14:18	BMB	Mt. Juliet, TN

DUP-1-020822 L1460342-10 GW

Collected by: RL/JM
Collected date/time: 02/08/22 00:00
Received date/time: 02/10/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1816578	1	02/12/22 15:02	02/12/22 15:02	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1818292	10	02/16/22 00:29	02/16/22 00:29	JAH	Mt. Juliet, TN

CASE NARRATIVE

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.

Brittnie L Boyd
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Brittnie L Boyd

Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 02/17/2022 13:22
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1460342-01, 02, 03, 04, 05, 06, 07, 08, 09 and 10
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1816578, WG1818292 and WG1818922

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?		X			2
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 02/17/2022 13:22
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1460342-01, 02, 03, 04, 05, 06, 07, 08, 09 and 10
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1816578, WG1818292 and WG1818922

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exceptions Reports

Laboratory Name: Pace Analytical National	LRC Date: 02/17/2022 13:22
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1460342-01, 02, 03, 04, 05, 06, 07, 08, 09 and 10
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1816578, WG1818292 and WG1818922

ER #[1]	Description
1	8021B WG1816578 Ethylbenzene: Percent Recovery is outside of established control limits.
2	8021B WG1816578 Benzene, Toluene, Ethylbenzene, Total Xylene: Relative Percent Difference is outside of established control limits.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.391		0.00190	0.000500	0.00500	10	02/15/2022 21:32	WG1818292
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 11:36	WG1816578
Ethylbenzene	0.000162	J	0.000160	0.000500	0.000500	1	02/12/2022 11:36	WG1816578
Total Xylene	0.00103	J	0.000510	0.00150	0.00150	1	02/12/2022 11:36	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/12/2022 11:36*	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*97.7*				*79.0-125*		*02/15/2022 21:32*	WG1818292

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000266	J	0.000190	0.000500	0.000500	1	02/15/2022 21:54	WG1818292
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 11:59	WG1816578
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/12/2022 11:59	WG1816578
Total Xylene	U		0.000510	0.00150	0.00150	1	02/12/2022 11:59	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/12/2022 11:59*	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*99.2*				*79.0-125*		*02/15/2022 21:54*	WG1818292

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

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	02/15/2022 22:16	WG1818292
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 12:22	WG1816578
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/12/2022 12:22	WG1816578
Total Xylene	U		0.000510	0.00150	0.00150	1	02/12/2022 12:22	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*104*				*79.0-125*		*02/12/2022 12:22*	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*99.6*				*79.0-125*		*02/15/2022 22:16*	WG1818292

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/15/2022 22:38	WG1818292
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 12:45	WG1816578
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/12/2022 12:45	WG1816578
Total Xylene	U		0.000510	0.00150	0.00150	1	02/12/2022 12:45	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*105*				*79.0-125*		*02/12/2022 12:45*	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*99.4*				*79.0-125*		*02/15/2022 22:38*	WG1818292

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	02/15/2022 22:59	WG1818292
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 13:07	WG1816578
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/12/2022 13:07	WG1816578
Total Xylene	U		0.000510	0.00150	0.00150	1	02/12/2022 13:07	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*104*				*79.0-125*		*02/12/2022 13:07*	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*99.6*				*79.0-125*		*02/15/2022 22:59*	WG1818292

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/15/2022 23:21	WG1818292
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 13:30	WG1816578
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/12/2022 13:30	WG1816578
Total Xylene	U		0.000510	0.00150	0.00150	1	02/12/2022 13:30	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/12/2022 13:30*	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*98.6*				*79.0-125*		*02/15/2022 23:21*	WG1818292

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.0141		0.000190	0.000500	0.000500	1	02/12/2022 13:53	WG1816578
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 13:53	WG1816578
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/12/2022 13:53	WG1816578
Total Xylene	U		0.000510	0.00150	0.00150	1	02/12/2022 13:53	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/12/2022 13:53*	WG1816578

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0403		0.000190	0.000500	0.000500	1	02/12/2022 14:16	WG1816578
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 14:16	WG1816578
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/12/2022 14:16	WG1816578
Total Xylene	U		0.000510	0.00150	0.00150	1	02/12/2022 14:16	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*104*				*79.0-125*		*02/12/2022 14:16*	WG1816578

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.505		0.00190	0.000500	0.00500	10	02/16/2022 14:18	WG1818922
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 14:39	WG1816578
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/12/2022 14:39	WG1816578
Total Xylene	U		0.000510	0.00150	0.00150	1	02/12/2022 14:39	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/12/2022 14:39*	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*99.1*				*79.0-125*		*02/16/2022 14:18*	WG1818922

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.489		0.00190	0.000500	0.00500	10	02/16/2022 00:29	WG1818292
Toluene	U		0.000412	0.00100	0.00100	1	02/12/2022 15:02	WG1816578
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/12/2022 15:02	WG1816578
Total Xylene	U		0.000510	0.00150	0.00150	1	02/12/2022 15:02	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/12/2022 15:02*	WG1816578
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*02/16/2022 00:29*	WG1818292

Method Blank (MB)

(MB) R3760173-2 02/12/22 07:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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)	*104*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3760173-1 02/12/22 06:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0456	91.2	77.0-122	
Toluene	0.0500	0.0488	97.6	80.0-121	
Ethylbenzene	0.0500	0.0531	106	80.0-123	
Total Xylene	0.150	0.153	102	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*104*	*79.0-125*	

L1460324-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1460324-05 02/12/22 07:47 • (MS) R3760173-3 02/12/22 15:25 • (MSD) R3760173-4 02/12/22 15:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	U	0.0466	0.0641	93.2	128	1	10.0-160		J3	31.6	21
Toluene	0.0500	U	0.0484	0.0700	96.8	140	1	12.0-148		J3	36.5	21
Ethylbenzene	0.0500	U	0.0531	0.0771	106	154	1	22.0-149		J3 J5	36.9	21
Total Xylene	0.150	U	0.151	0.219	101	146	1	13.0-155		J3	36.8	21
(S) a,a,a-Trifluorotoluene(PID)					*104*	*104*		*79.0-125*				

Method Blank (MB)

(MB) R3760560-3 02/15/22 19:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(PID)	*99.1*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3760560-1 02/15/22 17:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0518	104	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			*99.2*	*79.0-125*	

Method Blank (MB)

(MB) R3760884-3 02/16/22 10:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(PID)	*99.1*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3760884-1 02/16/22 08:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0508	102	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			*98.8*	*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

MDL	Method Detection Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
(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 Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
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.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Camille Bryant
505 N. Big Spring, Ste. 600
Midland, TX 79701

Pres Chk

Report to: **Becky Haskell**

Email To: becky.haskell@ghd.com;glenn.quinney@ghd.co

Project Description: **Lovington Gathering WTI**

City/State Collected: Lea County

Please Circle: PT MT (CT) ET

Phone: **432-686-0086**

Client Project # **12572711/01**

Lab Project # **PLAINSGHD-12572711**

Collected by (print): Ryan Livingston, Joe Miceles

Site/Facility ID # **SRS 2006-142**

P.O. #

Collected by (signature): Joe Miceles

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1460342

A004

Acctnum: PLAINSGHD

Template: T202565

Prelogin: P900178

PM: 823 - Olivia Studebaker

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-12-020722	G	GW	—	2-7	1245	3	X		-01
MW-7-020722	G	GW	—	2-7	1415	3	X		-02
MW-9-020722	G	GW	—	2-7	1450	3	X		-03
MW-11-020722	G	GW	—	2-7	1515	3	X		-04
MW-5R-020822	G	GW	—	2-8	1215	3	X		-05
MW-3R-020822	G	GW	—	2-8	1220	3	X		-06
MW-1R-020822	G	GW	—	2-8	1250	3	X		-07
MW-2R-020822	G	GW	—	2-8	1255	3	X		-08
MW-4R-020822	G	GW	—	2-8	1355	3	X		-09
DUP-1-020822	G	GW	—	2-8	—	3	X		-10

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

Remarks: 1) Report to SDL's 2) Flag estimated concentrations. 3) Lab project # Plains GHD-12572711

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: ___ UPS ___ FedEx ___ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ___NP ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N
RAD Screen <0.5 mR/hr: ___Y ___N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Joe Miceles	2-9-22	0700		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: NSA2°C 4.6 +.1 =4.7 Bottles Received: 30
	2-9-22	1610		If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 2/10/22 Time: 830
				Hold: Condition: NCF / OK

ANALYTICAL REPORT

March 02, 2022

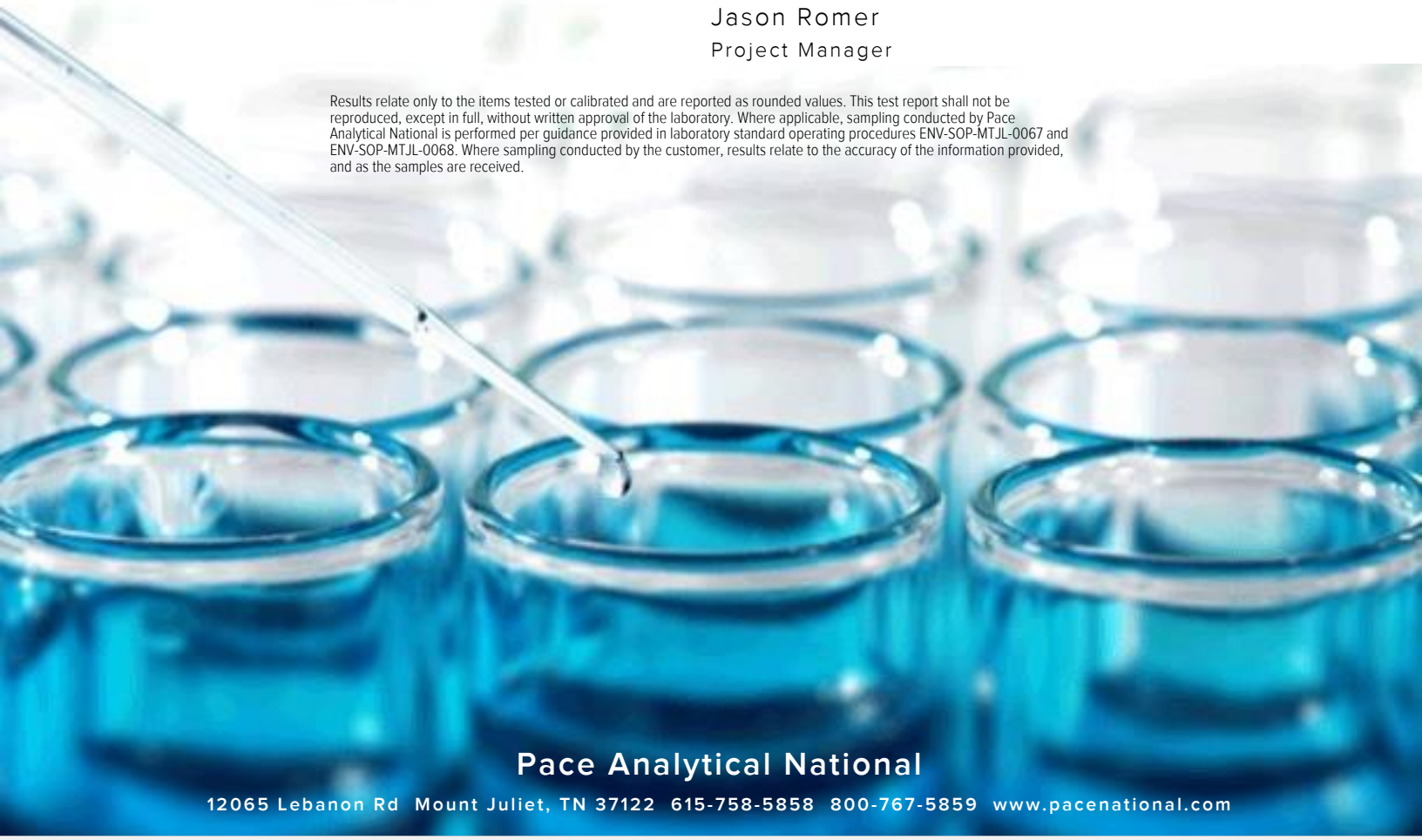
Plains All American, LP - GHD

Sample Delivery Group:	L1465433
Samples Received:	02/25/2022
Project Number:	SRS 2006-142
Description:	Lovington Gathering WTI
Site:	SRS 2006-142
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Jason Romer
Project Manager

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



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

TABLE OF CONTENTS

CENTER L1465433-01 GW

Collected by: Ryan Livingston
Collected date/time: 02/21/22 14:35
Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 01:04	02/28/22 01:04	JAH	Mt. Juliet, TN

MID L1465433-02 GW

Collected by: Ryan Livingston
Collected date/time: 02/21/22 14:25
Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 01:26	02/28/22 01:26	JAH	Mt. Juliet, TN

END L1465433-03 GW

Collected by: Ryan Livingston
Collected date/time: 02/21/22 14:25
Received date/time: 02/25/22 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 01:48	02/28/22 01:48	JAH	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.

Jason Romer
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jason Romer

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 03/02/2022 12:55
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1465433-01, 02 and 03
Reviewer Name: Jason Romer	Prep Batch Number(s): WG1824606

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 03/02/2022 12:55
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1465433-01, 02 and 03
Reviewer Name: Jason Romer	Prep Batch Number(s): WG1824606

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exceptions Reports

Laboratory Name: Pace Analytical National	LRC Date: 03/02/2022 12:55
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1465433-01, 02 and 03
Reviewer Name: Jason Romer	Prep Batch Number(s): WG1824606

ER #[1]	Description
	The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	02/28/2022 01:04	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 01:04	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 01:04	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 01:04	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/28/2022 01:04*	WG1824606

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.000355	J	0.000190	0.000500	0.000500	1	02/28/2022 01:26	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 01:26	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 01:26	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 01:26	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/28/2022 01:26*	WG1824606

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

END
Collected date/time: 02/21/22 14:25
L1465433

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000363	J	0.000190	0.000500	0.000500	1	02/28/2022 01:48	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 01:48	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 01:48	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 01:48	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/28/2022 01:48*	WG1824606

Method Blank (MB)

(MB) R3765151-3 02/28/22 00:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	0.000449	J	0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	0.00110	J	0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*103*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3765151-1 02/27/22 22:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0482	96.4	77.0-122	
Toluene	0.0500	0.0437	87.4	80.0-121	
Ethylbenzene	0.0500	0.0455	91.0	80.0-123	
Total Xylene	0.150	0.130	86.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*102*	*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

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Report to: Becky Haskell

Email To: becky.haskell@ghd.com

Project Description: Lovington Gathering WTI

City/State Collected: Lovington, NM

Phone: 432-250-7917
Fax:

Client Project # SRS 2006-142

Lab Project # SRS 2006-142

Collected by (print): Ryan Livingston

Site/Facility ID # SRS 2006-142

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed: Standard TAT Per SSOW

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 8021B 40mLAmb-HCL	PAHSIMLVI 40mLAmb-NoPres-WT	Remarks	Sample # (lab only)
Center	G	W		2-21-22	1435	3	3			
mid	G	W			1425					
End	G	W			1415					

Chain of Custody

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1465433

1145

Acctnum: PLAINSGHD

Template:

Prelogin:

TSR:

PB:

Shipped Via:

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-12572711

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		✓ N
Bottles arrive intact:		✓ N
Correct bottles used:		✓ N
Sufficient volume sent:		✓ N
If Applicable		
VOA Zero Headspace:		✓ N
Preservation Correct/Checked:		✓ N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	2-24-22	1300		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
	2-24-22	1600		2.6+0=2.6 9
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			Patricia Smith	2/25/22 0843

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

May 23, 2022

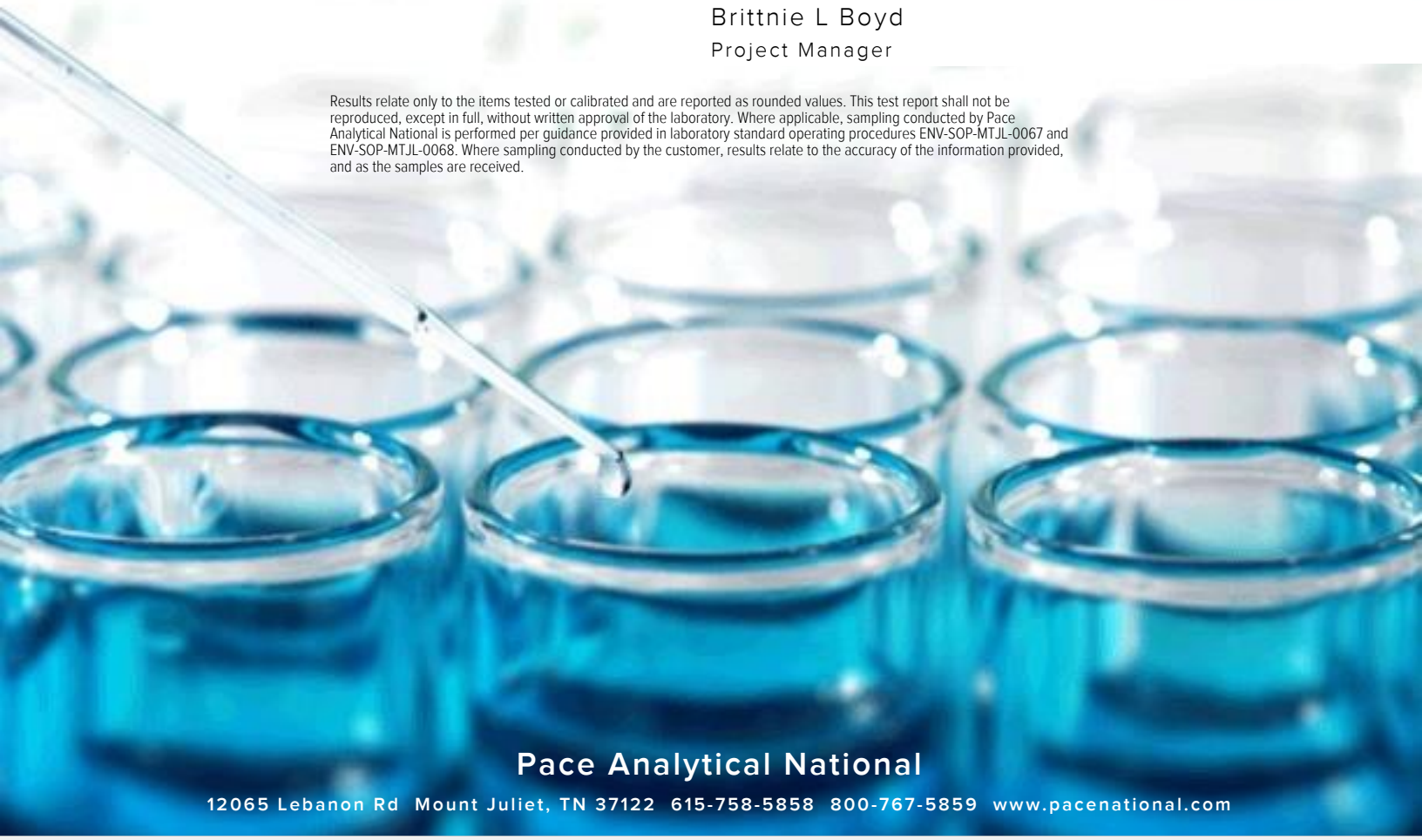
Plains All American, LP - GHD

Sample Delivery Group:	L1493726
Samples Received:	05/14/2022
Project Number:	SRS 2006-142
Description:	Lovington Gathering WTI, SRS 2006-142
Site:	SRS 2006-142
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Brittnie L Boyd
Project Manager

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



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

TABLE OF CONTENTS

LG-MW-3R-051122 L1493726-01 GW

Collected by: David Fletcher | Collected date/time: 05/11/22 10:35 | Received date/time: 05/14/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1866821	1	05/21/22 08:05	05/21/22 08:05	DWR	Mt. Juliet, TN

LG-MW-5R-051122 L1493726-02 GW

Collected by: David Fletcher | Collected date/time: 05/11/22 11:00 | Received date/time: 05/14/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1866821	1	05/21/22 08:27	05/21/22 08:27	DWR	Mt. Juliet, TN

LG-MW-9-051122 L1493726-03 GW

Collected by: David Fletcher | Collected date/time: 05/11/22 11:20 | Received date/time: 05/14/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1866821	1	05/21/22 08:50	05/21/22 08:50	DWR	Mt. Juliet, TN

LG-MW-11-051122 L1493726-04 GW

Collected by: David Fletcher | Collected date/time: 05/11/22 11:50 | Received date/time: 05/14/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1867440	1	05/21/22 16:44	05/21/22 16:44	ACG	Mt. Juliet, TN

LG-MW-7-051122 L1493726-05 GW

Collected by: David Fletcher | Collected date/time: 05/11/22 12:10 | Received date/time: 05/14/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1867440	1	05/21/22 17:06	05/21/22 17:06	ACG	Mt. Juliet, TN

LG-MW-1R-051122 L1493726-06 GW

Collected by: David Fletcher | Collected date/time: 05/11/22 12:30 | Received date/time: 05/14/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1867440	1	05/21/22 17:28	05/21/22 17:28	ACG	Mt. Juliet, TN

LG-MW-2R-051122 L1493726-07 GW

Collected by: David Fletcher | Collected date/time: 05/11/22 13:10 | Received date/time: 05/14/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1867440	1	05/21/22 17:50	05/21/22 17:50	ACG	Mt. Juliet, TN

LG-MW-12-051122 L1493726-08 GW

Collected by: David Fletcher | Collected date/time: 05/11/22 13:30 | Received date/time: 05/14/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1867440	1	05/21/22 18:12	05/21/22 18:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1867755	10	05/23/22 01:31	05/23/22 01:31	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

LG-MW-4R-051122 L1493726-09 GW

Collected by: David Fletcher
Collected date/time: 05/11/22 13:50
Received date/time: 05/14/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1867440	1	05/21/22 18:34	05/21/22 18:34	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1867755	20	05/23/22 01:54	05/23/22 01:54	JAH	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.

Brittnie L Boyd
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1493726-02	LG-MW-5R-051122	8021B
L1493726-04	LG-MW-11-051122	8021B
L1493726-06	LG-MW-1R-051122	8021B
L1493726-07	LG-MW-2R-051122	8021B
L1493726-09	LG-MW-4R-051122	8021B

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Brittnie L Boyd
Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 05/23/2022 17:01
Project Name: Lovington Gathering WTI, SRS 2006-142	Laboratory Job Number: L1493726-01, 02, 03, 04, 05, 06, 07, 08 and 09
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1867440, WG1866821 and WG1867755

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?		X			1
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 05/23/2022 17:01
Project Name: Lovington Gathering WTI, SRS 2006-142	Laboratory Job Number: L1493726-01, 02, 03, 04, 05, 06, 07, 08 and 09
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1867440, WG1866821 and WG1867755

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exceptions Reports

Laboratory Name: Pace Analytical National	LRC Date: 05/23/2022 17:01
Project Name: Lovington Gathering WTI, SRS 2006-142	Laboratory Job Number: L1493726-01, 02, 03, 04, 05, 06, 07, 08 and 09
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1867440, WG1866821 and WG1867755

ER #[1]	Description
1	8021B WG1866821 L1493726-02: pH outside of method requirement. 8021B WG1867440 L1493726-04, 06, 07 and 09: pH outside of method requirement. 8021B WG1867755 L1493726-09: pH outside of method requirement.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	05/21/2022 08:05	WG1866821
Toluene	U		0.000412	0.00100	0.00100	1	05/21/2022 08:05	WG1866821
Ethylbenzene	0.000563	B	0.000160	0.000500	0.000500	1	05/21/2022 08:05	WG1866821
Total Xylene	0.000615	J	0.000510	0.00150	0.00150	1	05/21/2022 08:05	WG1866821
(S) a,a,a-Trifluorotoluene(PID)	*98.4*				*79.0-125*		*05/21/2022 08:05*	WG1866821

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.0702		0.000190	0.000500	0.000500	1	05/21/2022 08:27	WG1866821
Toluene	U		0.000412	0.00100	0.00100	1	05/21/2022 08:27	WG1866821
Ethylbenzene	0.000489	B J	0.000160	0.000500	0.000500	1	05/21/2022 08:27	WG1866821
Total Xylene	0.000780	J	0.000510	0.00150	0.00150	1	05/21/2022 08:27	WG1866821
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*05/21/2022 08:27*	WG1866821

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

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000249	J	0.000190	0.000500	0.000500	1	05/21/2022 08:50	WG1866821
Toluene	U		0.000412	0.00100	0.00100	1	05/21/2022 08:50	WG1866821
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/21/2022 08:50	WG1866821
Total Xylene	U		0.000510	0.00150	0.00150	1	05/21/2022 08:50	WG1866821
(S) a,a,a-Trifluorotoluene(PID)	*98.4*				*79.0-125*		*05/21/2022 08:50*	WG1866821

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	05/21/2022 16:44	WG1867440
Toluene	U		0.000412	0.00100	0.00100	1	05/21/2022 16:44	WG1867440
Ethylbenzene	0.000409	J	0.000160	0.000500	0.000500	1	05/21/2022 16:44	WG1867440
Total Xylene	U		0.000510	0.00150	0.00150	1	05/21/2022 16:44	WG1867440
(S) a,a,a-Trifluorotoluene(PID)	*98.6*				*79.0-125*		*05/21/2022 16:44*	WG1867440

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

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	05/21/2022 17:06	WG1867440
Toluene	U		0.000412	0.00100	0.00100	1	05/21/2022 17:06	WG1867440
Ethylbenzene	0.000411	J	0.000160	0.000500	0.000500	1	05/21/2022 17:06	WG1867440
Total Xylene	U		0.000510	0.00150	0.00150	1	05/21/2022 17:06	WG1867440
(S) a,a,a-Trifluorotoluene(PID)	*98.6*				*79.0-125*		*05/21/2022 17:06*	WG1867440

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00224		0.000190	0.000500	0.000500	1	05/21/2022 17:28	WG1867440
Toluene	U		0.000412	0.00100	0.00100	1	05/21/2022 17:28	WG1867440
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/21/2022 17:28	WG1867440
Total Xylene	U		0.000510	0.00150	0.00150	1	05/21/2022 17:28	WG1867440
(S) a,a,a-Trifluorotoluene(PID)	*98.2*				*79.0-125*		*05/21/2022 17:28*	WG1867440

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.117		0.000190	0.000500	0.000500	1	05/21/2022 17:50	WG1867440
Toluene	U		0.000412	0.00100	0.00100	1	05/21/2022 17:50	WG1867440
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/21/2022 17:50	WG1867440
Total Xylene	U		0.000510	0.00150	0.00150	1	05/21/2022 17:50	WG1867440
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*05/21/2022 17:50*	WG1867440

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.291		0.00190	0.000500	0.00500	10	05/23/2022 01:31	WG1867755
Toluene	U		0.000412	0.00100	0.00100	1	05/21/2022 18:12	WG1867440
Ethylbenzene	0.000406	J	0.000160	0.000500	0.000500	1	05/21/2022 18:12	WG1867440
Total Xylene	U		0.000510	0.00150	0.00150	1	05/21/2022 18:12	WG1867440
(S) a,a,a-Trifluorotoluene(PID)	*105*				*79.0-125*		*05/21/2022 18:12*	WG1867440
(S) a,a,a-Trifluorotoluene(PID)	*99.4*				*79.0-125*		*05/23/2022 01:31*	WG1867755

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.675		0.00380	0.000500	0.0100	20	05/23/2022 01:54	WG1867755
Toluene	U		0.000412	0.00100	0.00100	1	05/21/2022 18:34	WG1867440
Ethylbenzene	0.000424	J	0.000160	0.000500	0.000500	1	05/21/2022 18:34	WG1867440
Total Xylene	U		0.000510	0.00150	0.00150	1	05/21/2022 18:34	WG1867440
(S) a,a,a-Trifluorotoluene(PID)	*112*				*79.0-125*		*05/21/2022 18:34*	WG1867440
(S) a,a,a-Trifluorotoluene(PID)	*99.4*				*79.0-125*		*05/23/2022 01:54*	WG1867755

Method Blank (MB)

(MB) R3794660-3 05/20/22 23:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	0.000413	J	0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*98.5*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3794660-1 05/20/22 21:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0527	105	77.0-122	
Toluene	0.0500	0.0577	115	80.0-121	
Ethylbenzene	0.0500	0.0499	99.8	80.0-123	
Total Xylene	0.150	0.173	115	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*100*	*79.0-125*	

Method Blank (MB)

(MB) R3794651-3 05/21/22 14:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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)	*98.4*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3794651-2 05/21/22 13:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0503	101	77.0-122	
Toluene	0.0500	0.0567	113	80.0-121	
Ethylbenzene	0.0500	0.0487	97.4	80.0-123	
Total Xylene	0.150	0.170	113	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*101*	*79.0-125*	

Method Blank (MB)

(MB) R3795026-1 05/22/22 17:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(PID)	*98.2*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3795026-2 05/22/22 15:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0514	103	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			*101*	*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

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Report to: Becky Haskell

Email To: becky.haskell@ghd.com

Project Description: Lovington Gathering WTI

City/State Collected: Lovington, NM

Phone: 432-250-7917
Fax:

Client Project # SRS 2006-142

Lab Project # SRS 2006-142

Collected by (print): David Fletcher

Site/Facility ID # SRS 2006-142

P.O. #

Collected by (signature): David Fletcher

Immediately Packed on Ice N____ Y____

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed: Standard TAT Per SSOW

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1493726

M065

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 8021B 40mLAmb-HCL	PAHSIMLVI 40mLAmb-NoPres-WT	Remarks	Sample # (lab only)
LG-MW-3R-051122	GRAB	GW	NA	5-11-22	1035	3	X			-01
LG-MW-5R-051122					1100					-02
LG-MW-9-051122					1120					-03
LG-MW-11-051122					1150					-04
LG-MW-7-051122					1210					-05
LG-MW-1R-051122					1230					-06
LG-MW-2R-051122					1310					-07
LG-MW-12-051122					1330					-08
LG-MW-4R-051122					1350					-09

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-12572711

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP__Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
David Fletcher	5-13-22	1030	
	5/13/22	1700	SWA
			Received for lab by: (Signature)

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: DRAFIC Bottles Received: 1.7 to 1.7 27

If preservation required by Login: Date/Time

Date: 5/14/22 Time: 10a

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

August 26, 2022

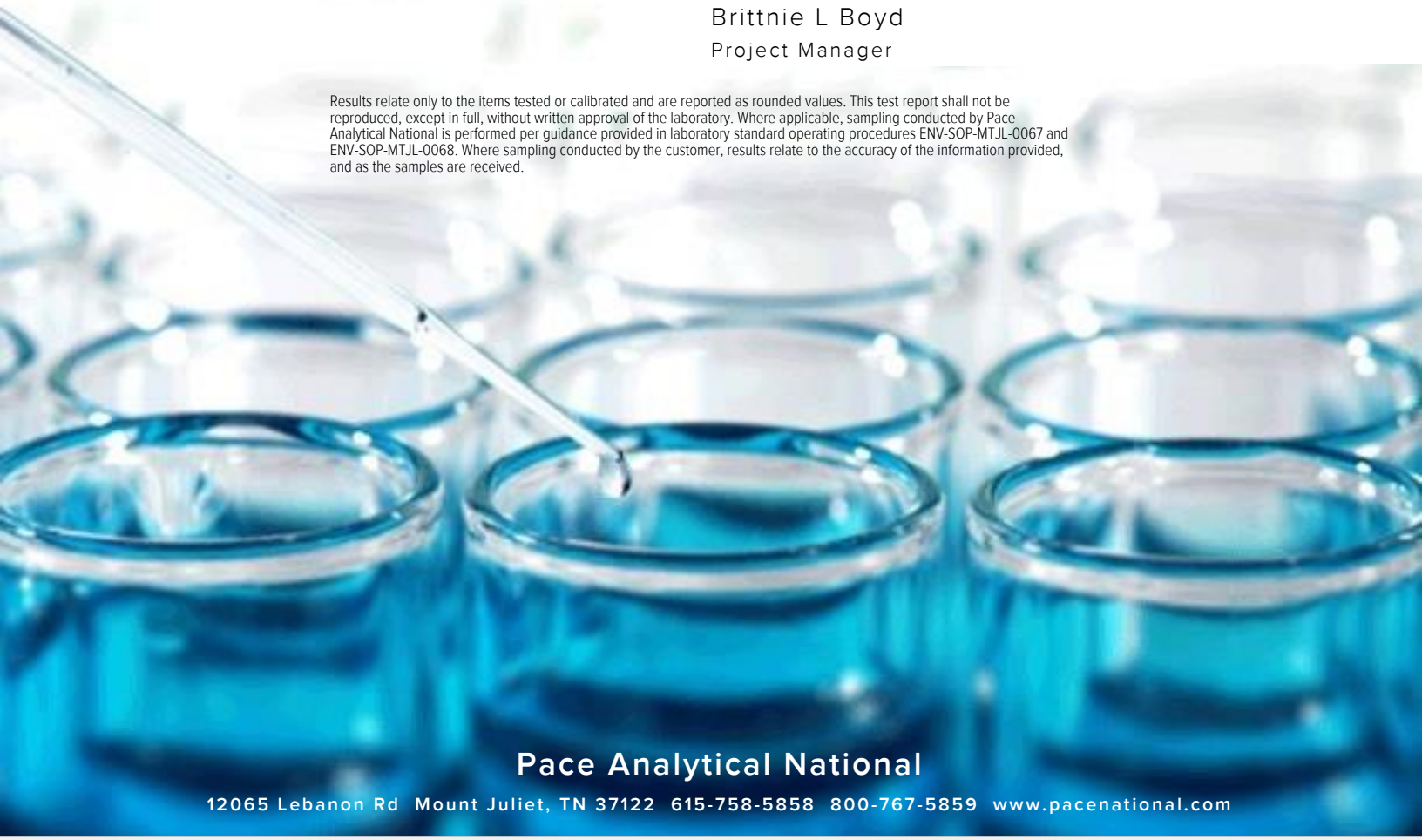
Plains All American, LP - GHD

Sample Delivery Group:	L1526403
Samples Received:	08/12/2022
Project Number:	SRS 2006-142
Description:	Lovington Gathering WTI, SRS 2006-142
Site:	SRS 2006-142
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Brittnie L Boyd
Project Manager

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



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

TABLE OF CONTENTS

GDC PIVOT-END-080922 L1526403-01 GW

Collected by: MC/JM | Collected date/time: 08/09/22 12:30 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 06:18	08/18/22 06:18	ACG	Mt. Juliet, TN

GDCP-BEG.-080922 L1526403-02 GW

Collected by: MC/JM | Collected date/time: 08/09/22 12:45 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 06:39	08/18/22 06:39	ACG	Mt. Juliet, TN

GDCP-WELL-080922 L1526403-03 GW

Collected by: MC/JM | Collected date/time: 08/09/22 13:00 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 07:01	08/18/22 07:01	ACG	Mt. Juliet, TN

GOFF DAIRY-WELL-080922 L1526403-04 GW

Collected by: MC/JM | Collected date/time: 08/09/22 13:15 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 07:23	08/18/22 07:23	ACG	Mt. Juliet, TN

MW-4R-081022 L1526403-05 GW

Collected by: MC/JM | Collected date/time: 08/10/22 11:30 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	10	08/18/22 11:41	08/18/22 11:41	ACG	Mt. Juliet, TN

MW-1R-081022 L1526403-06 GW

Collected by: MC/JM | Collected date/time: 08/10/22 11:35 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 07:44	08/18/22 07:44	ACG	Mt. Juliet, TN

JW-WELL-081022 L1526403-07 GW

Collected by: MC/JM | Collected date/time: 08/10/22 11:50 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 08:06	08/18/22 08:06	ACG	Mt. Juliet, TN

MW-2R-081022 L1526403-08 GW

Collected by: MC/JM | Collected date/time: 08/10/22 13:15 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 08:27	08/18/22 08:27	ACG	Mt. Juliet, TN

MW-3R-081022 L1526403-09 GW

Collected by: MC/JM | Collected date/time: 08/10/22 13:20 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 08:49	08/18/22 08:49	ACG	Mt. Juliet, TN

MW-11-081022 L1526403-10 GW

Collected by: MC/JM | Collected date/time: 08/10/22 13:30 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 09:10	08/18/22 09:10	ACG	Mt. Juliet, TN

MW-9-081022 L1526403-11 GW

Collected by: MC/JM | Collected date/time: 08/10/22 14:10 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 09:32	08/18/22 09:32	ACG	Mt. Juliet, TN

MW-7-081022 L1526403-12 GW

Collected by: MC/JM | Collected date/time: 08/10/22 14:20 | Received date/time: 08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1912679	1	08/18/22 09:54	08/18/22 09:54	ACG	Mt. Juliet, TN

MW-12-081022 L1526403-13 GW

Collected by: MC/JM | Collected date/time: 08/10/22 14:20 | Received date/time: 08/20/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1915506	1	08/24/22 17:26	08/24/22 17:26	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1916387	10	08/25/22 22:18	08/25/22 22:18	JAH	Mt. Juliet, TN

MW-5R-081022 L1526403-14 GW

Collected by: MC/JM | Collected date/time: 08/10/22 14:20 | Received date/time: 08/20/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1915506	1	08/24/22 17:47	08/24/22 17:47	JAH	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.

Brittnie L Boyd
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1526403-05	MW-4R-081022	8021B
L1526403-06	MW-1R-081022	8021B
L1526403-08	MW-2R-081022	8021B
L1526403-10	MW-11-081022	8021B
L1526403-14	MW-5R-081022	8021B

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Brittnie L Boyd
Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 08/26/2022 15:01
Project Name: Lovington Gathering WTI, SRS 2006-142	Laboratory Job Number: L1526403-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1912679, WG1915506 and WG1916387

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?		X			1
		Other than those results < MQL, were all other raw values bracketed by calibration standards?		X			2
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?		X			3
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 08/26/2022 15:01
Project Name: Lovington Gathering WTI, SRS 2006-142	Laboratory Job Number: L1526403-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1912679, WG1915506 and WG1916387

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exceptions Reports

Laboratory Name: Pace Analytical National	LRC Date: 08/26/2022 15:01
Project Name: Lovington Gathering WTI, SRS 2006-142	Laboratory Job Number: L1526403-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1912679, WG1915506 and WG1916387

ER #[1]	Description
1	8021B WG1916387 L1526403-13: Prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
2	8021B WG1915506 L1526403-13: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
3	8021B WG1912679 L1526403-05, 06, 08 and 10: pH outside of method requirement. 8021B WG1915506 L1526403-14: pH outside of method requirement.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2022 06:18	WG1912679
Toluene	0.000637	J	0.000412	0.00100	0.00100	1	08/18/2022 06:18	WG1912679
Ethylbenzene	0.000304	J	0.000160	0.000500	0.000500	1	08/18/2022 06:18	WG1912679
Total Xylene	0.00111	J	0.000510	0.00150	0.00150	1	08/18/2022 06:18	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*95.7*				*79.0-125*		*08/18/2022 06:18*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000219	J	0.000190	0.000500	0.000500	1	08/18/2022 06:39	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 06:39	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 06:39	WG1912679
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2022 06:39	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*96.9*				*79.0-125*		*08/18/2022 06:39*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000216	J	0.000190	0.000500	0.000500	1	08/18/2022 07:01	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 07:01	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 07:01	WG1912679
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2022 07:01	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*97.9*				*79.0-125*		*08/18/2022 07:01*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000498	J	0.000190	0.000500	0.000500	1	08/18/2022 07:23	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 07:23	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 07:23	WG1912679
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2022 07:23	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*97.3*				*79.0-125*		*08/18/2022 07:23*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.115		0.00190	0.000500	0.00500	10	08/18/2022 11:41	WG1912679
Toluene	U		0.00412	0.00100	0.0100	10	08/18/2022 11:41	WG1912679
Ethylbenzene	U		0.00160	0.000500	0.00500	10	08/18/2022 11:41	WG1912679
Total Xylene	U		0.00510	0.00150	0.0150	10	08/18/2022 11:41	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*97.4*				*79.0-125*		*08/18/2022 11:41*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00371		0.000190	0.000500	0.000500	1	08/18/2022 07:44	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 07:44	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 07:44	WG1912679
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2022 07:44	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*96.8*				*79.0-125*		*08/18/2022 07:44*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000236	J	0.000190	0.000500	0.000500	1	08/18/2022 08:06	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 08:06	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 08:06	WG1912679
Total Xylene	0.0112		0.000510	0.00150	0.00150	1	08/18/2022 08:06	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*96.9*				*79.0-125*		*08/18/2022 08:06*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0468		0.000190	0.000500	0.000500	1	08/18/2022 08:27	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 08:27	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 08:27	WG1912679
Total Xylene	0.00149	J	0.000510	0.00150	0.00150	1	08/18/2022 08:27	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*95.6*				*79.0-125*		*08/18/2022 08:27*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2022 08:49	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 08:49	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 08:49	WG1912679
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2022 08:49	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*98.1*				*79.0-125*		*08/18/2022 08:49*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2022 09:10	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 09:10	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 09:10	WG1912679
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2022 09:10	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*95.6*				*79.0-125*		*08/18/2022 09:10*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2022 09:32	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 09:32	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 09:32	WG1912679
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2022 09:32	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*97.7*				*79.0-125*		*08/18/2022 09:32*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2022 09:54	WG1912679
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2022 09:54	WG1912679
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2022 09:54	WG1912679
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2022 09:54	WG1912679
(S) a,a,a-Trifluorotoluene(PID)	*97.6*				*79.0-125*		*08/18/2022 09:54*	WG1912679

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.389	E	0.000190	0.000500	0.000500	1	08/24/2022 17:26	WG1915506
Benzene	0.426	T8	0.00190	0.000500	0.00500	10	08/25/2022 22:18	WG1916387
Toluene	U		0.000412	0.00100	0.00100	1	08/24/2022 17:26	WG1915506
Ethylbenzene	0.000164	J	0.000160	0.000500	0.000500	1	08/24/2022 17:26	WG1915506
Total Xylene	0.000870	J	0.000510	0.00150	0.00150	1	08/24/2022 17:26	WG1915506
(S) a,a,a-Trifluorotoluene(PID)	*94.9*				*79.0-125*		*08/24/2022 17:26*	WG1915506
(S) a,a,a-Trifluorotoluene(PID)	*95.8*				*79.0-125*		*08/25/2022 22:18*	WG1916387

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0698		0.000190	0.000500	0.000500	1	08/24/2022 17:47	WG1915506
Toluene	U		0.000412	0.00100	0.00100	1	08/24/2022 17:47	WG1915506
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/24/2022 17:47	WG1915506
Total Xylene	U		0.000510	0.00150	0.00150	1	08/24/2022 17:47	WG1915506
(S) a,a,a-Trifluorotoluene(PID)	*96.4*				*79.0-125*		*08/24/2022 17:47*	WG1915506

Method Blank (MB)

(MB) R3827829-3 08/18/22 04:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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)	*95.9*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3827829-1 08/18/22 02:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0455	91.0	77.0-122	
Toluene	0.0500	0.0444	88.8	80.0-121	
Ethylbenzene	0.0500	0.0453	90.6	80.0-123	
Total Xylene	0.150	0.133	88.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*98.3*	*79.0-125*	

Method Blank (MB)

(MB) R3830273-3 08/24/22 16:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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)	*97.6*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3830273-1 08/24/22 14:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0457	91.4	77.0-122	
Toluene	0.0500	0.0449	89.8	80.0-121	
Ethylbenzene	0.0500	0.0463	92.6	80.0-123	
Total Xylene	0.150	0.137	91.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*97.3*	*79.0-125*	

Method Blank (MB)

(MB) R3830905-3 08/25/22 20:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(PID)	*98.0*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3830905-1 08/25/22 18:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0467	93.4	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			*97.5*	*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

MDL	Method Detection Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
(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 Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
T8	Sample(s) received past/too close to holding time expiration.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Chain of Custody Page 1 of 2

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1526403

A170

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Remarks | Sample # (lab only)

Plains All American, LP - GHD
2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Report to: Becky Haskell

Email To: ~~becky.haskell@ghd.com~~ matthew.laughlin@ghd.com

Project Description: Lovington Gathering WTI

City/State Collected: Lovington, NM

Phone: 432-250-7917
Fax:

Client Project # SRS 2006-142

Lab Project # SRS 2006-142

Collected by (print): Mitchell Clemons, Joe Mireles

Site/Facility ID # SRS 2006-142

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard TAT Per SSOW

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 8021B 40mLAmb-HCL	~~PAH SIM LVI 40mLAmb-NoPres-WT~~												
GDCPivot-End-080922	G	GW	—	8-9-22	1230	3	X													-01
GDCP-Beg.-080922	G	GW	—	8-9-22	1245	3	X													-02
GDCP-Well-080922	G	GW	—	8-9-22	1300	3	X													-03
Goff Dairy-Well-080922	G	GW	—	8-9-22	1315	3	X													-04
MW-4R-081022	G	GW	—	8-10-22	1130	3	X													-05
MW-1R-081022	G	GW	—	8-10-22	1135	3	X													-06
JW-well-081022	G	GW	—	8-10-22	1150	~~3~~ 2 HK	X													-07
MW-2R-081022	G	GW	—	8-10-22	1315	3	X													-08
MW-3R-081022	G	GW	—	8-10-22	1320	3	X													-09
MW-12-081022	G	GW	—	8-10-22	1345	~~3~~ 2 HK	X													-10

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-12572711

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking # 571961778813

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	8-11-22	1400	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	8-11-22	1800	FedEx
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes (No)
HCL / MeoH
TBR

Temp: 23 °C Bottles Received: 35

Date: 8/12/22 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:

Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Report to: Becky Haskell

Email To: Matt. Laughlin
~~becky.haskell@ghd.com~~

Project Description: Lovington Gathering WTI

City/State Collected: Lovington, NM

Phone: 432-250-7917
Fax:

Client Project # SRS 2006-142

Lab Project # SRS 2006-142

Collected by (print):

Site/Facility ID # SRS 2006-142

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard TAT Per SSOW

Analysis / Container / Preservative

Chain of Custody

Pace Analytical

Lab # L1526403

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Remarks | Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 8021B 40mLAmb-HCL	PAHSIMLV1 40mLAmb-NoPres-WT	
MW-11-081022	G	GW	~	8-10-22	1330	3	X		-10
MW-9-081022	G	GW	~	8-10-22	~~1410~~ 1420	3	X		-11
MW-7-081022	G	GW	~	8-10-22	~~1430~~ 1440	3	X		-12
MW-5R-081022	G	GW	~	8-10-22	1445	3	X		

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-12572711

pH ___ Temp ___

Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier ___

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact:
COC Signed/Accurate:
Bottles arrive intact:
Correct bottles used:
Sufficient volume sent:
If Applicable
VOA Zero Headspace:
Preservation Correct/Checked:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
MC	8-11-22	1900	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	8-11-22	1800	FedEx
	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 2.5 °C Bottles Received: 35

If preservation required by Login:

Date: 8/12/22 Time: 90

Hold:

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Report to: Becky Haskell
Email To: becky.haskell@ghd.com

Project Description: Lovington Gathering WTI
City/State Collected: Lovington, NM

Phone: 432-250-7917
Fax:

Client Project # SRS 2006-142
Lab Project # SRS 2006-142

Collected by (print):
Site/Facility ID # SRS 2006-142
P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day RUSH

Quote #

Date Results Needed: ~~Standard TAT Per SSOW~~

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1526403

M130

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 8021B 40mLAmb-HCL	PAHSIMLVI 40mLAmb-NoPres-WT	Remarks	Sample # (lab only)
MW-12-081022	G	GW	-	08/10/22	1345	3	X			-13
MW-5R-081022	G	GW	-	08/10/22	1445	3	X			-14

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-12572711 RUSH at charge of standard Rate per SSOW

pH _____ Temp _____
Flow _____ Other _____

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

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	08/19/22	11:00	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	8/19/22	12:58	FedEx
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 3.0 °C Bottles Received: 6

Date: 8/20/22 Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

PLAINSGHD 08/20 L1526403 Missing Samples Arriving

Special Instructions

L1526403

Quantity: 2
Matrix: GW
Analysis: BTEX
Request: Samples MW-5R-081022 and MW-12-081022 will arrive and need to be logged to L1526403. Please make sure these are analyzed within holding time.

Time estimate: oh **Time spent:** oh

Members

BB Brittnie Boyd

Labels: VOC

Due on *20 August 2022 5:00 PM* for target *UNKNOWN COLUMN*

ANALYTICAL REPORT

September 26, 2022

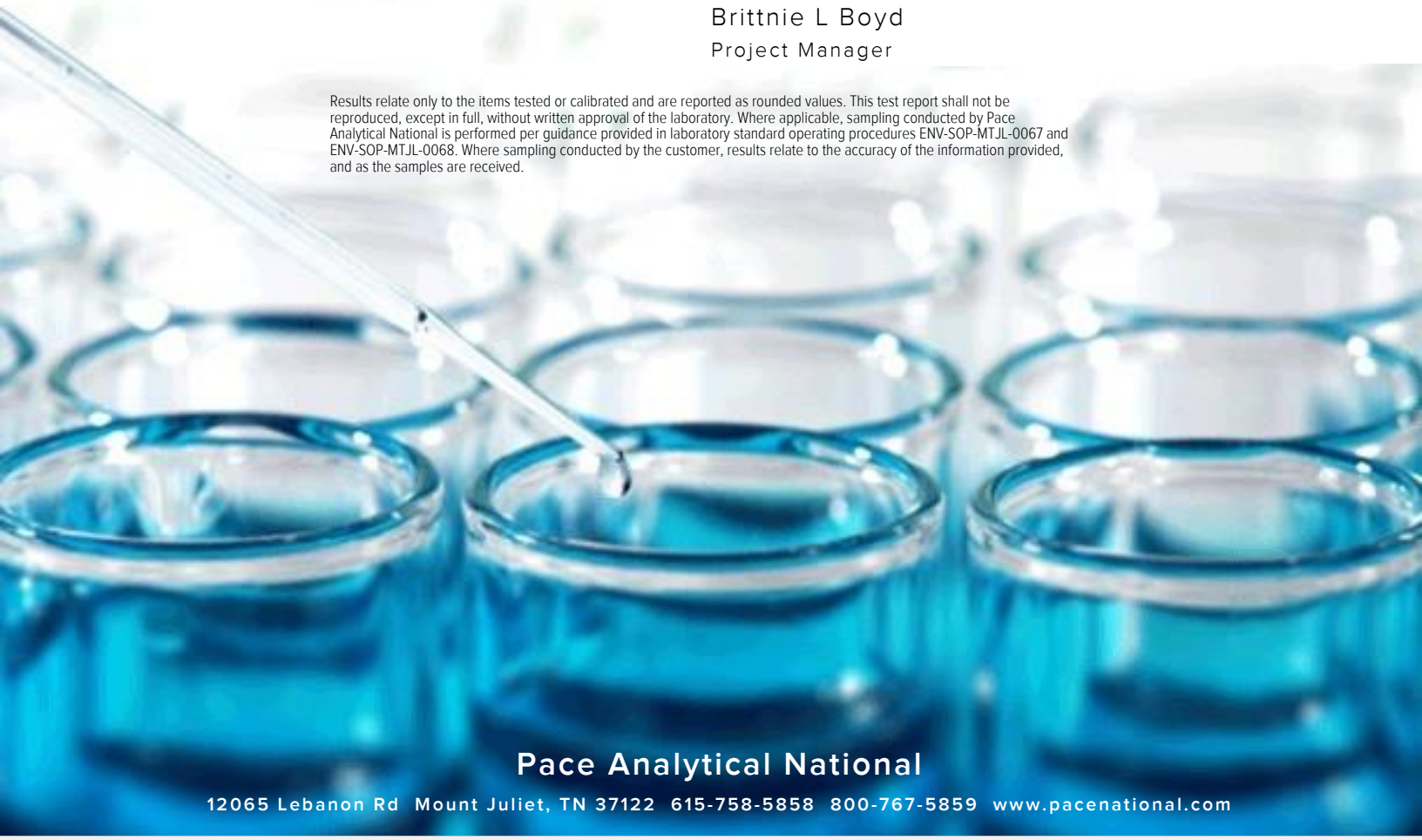
Plains All American, LP - GHD

Sample Delivery Group:	L1536193
Samples Received:	09/15/2022
Project Number:	SRS 2006-142
Description:	Lovington Gathering WTI
Site:	SRS 2006-142
Report To:	Matthew Laughlin 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Brittnie L Boyd
Project Manager

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



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

TABLE OF CONTENTS

SAMPLE SUMMARY

MW-12-091322 L1536193-01 GW

Collected by	Collected date/time	Received date/time
Matthew Laughlin	09/13/22 14:50	09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1929691	1	09/22/22 09:07	09/22/22 09:07	BAM	Mt. Juliet, TN

CASE NARRATIVE

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.

Brittnie L Boyd
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Brittnie L Boyd

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 09/26/2022 10:15
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1536193-01
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1929691

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 09/26/2022 10:15
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1536193-01
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1929691

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Revised May 2010

Laboratory Name: Pace Analytical National	LRC Date: 09/26/2022 10:15
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1536193-01
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1929691

ER #[1]	Description
	The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.137		0.000190	0.000500	0.000500	1	09/22/2022 09:07	WG1929691
Toluene	U		0.000412	0.00100	0.00100	1	09/22/2022 09:07	WG1929691
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/22/2022 09:07	WG1929691
Total Xylene	U		0.000510	0.00150	0.00150	1	09/22/2022 09:07	WG1929691
(S) a,a,a-Trifluorotoluene(PID)	*96.5*				*79.0-125*		*09/22/2022 09:07*	WG1929691

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

Method Blank (MB)

(MB) R3840807-3 09/22/22 08:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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)	*97.9*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3840807-1 09/22/22 07:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0448	89.6	77.0-122	
Toluene	0.0500	0.0443	88.6	80.0-121	
Ethylbenzene	0.0500	0.0477	95.4	80.0-123	
Total Xylene	0.150	0.142	94.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*97.4*	*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

MDL	Method Detection Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
(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 Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:

Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705
matthew.laughlin@ghd.com

Report to: ~~Becky Haskell~~ Matthew Laughlin

Email To: ~~becky.haskell@ghd.com~~

Project Description: Lovington Gathering WTI

City/State Collected: Lovington, NM

Phone: ~~432-250-7917~~

Fax: 432-640-9715

Client Project # SRS 2006-142

Lab Project # SRS 2006-142

Collected by (print): Matthew Laughlin

Site/Facility ID # SRS 2006-142

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard TAT Per SSOW

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	~~BTEX 8021B 40mL Amb-HCl~~	~~PAH SIM LVI 40mL Amb-NoPres WT~~	8021B Benzene
MW-12-091322	G	W	-	09/13/22	1450	3	X		X

-01

1072

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1536193

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Remarks | Sample # (lab only)

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

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
~~3. Lab Project #: PLAINSGHD-12572711~~
Do NOT bill Plains

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 5829 6695 9112

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	9/14/22	~~1018~~ 0918 SF	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	9/14/22	1700	FedEx
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes (No) HCL / MeoH TBR

Temp: °C Bottles Received: 3

1.0+0=1.0

Date: 9/15/22 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF (OK)

Pace Analytical®

ANALYTICAL REPORT

December 06, 2022

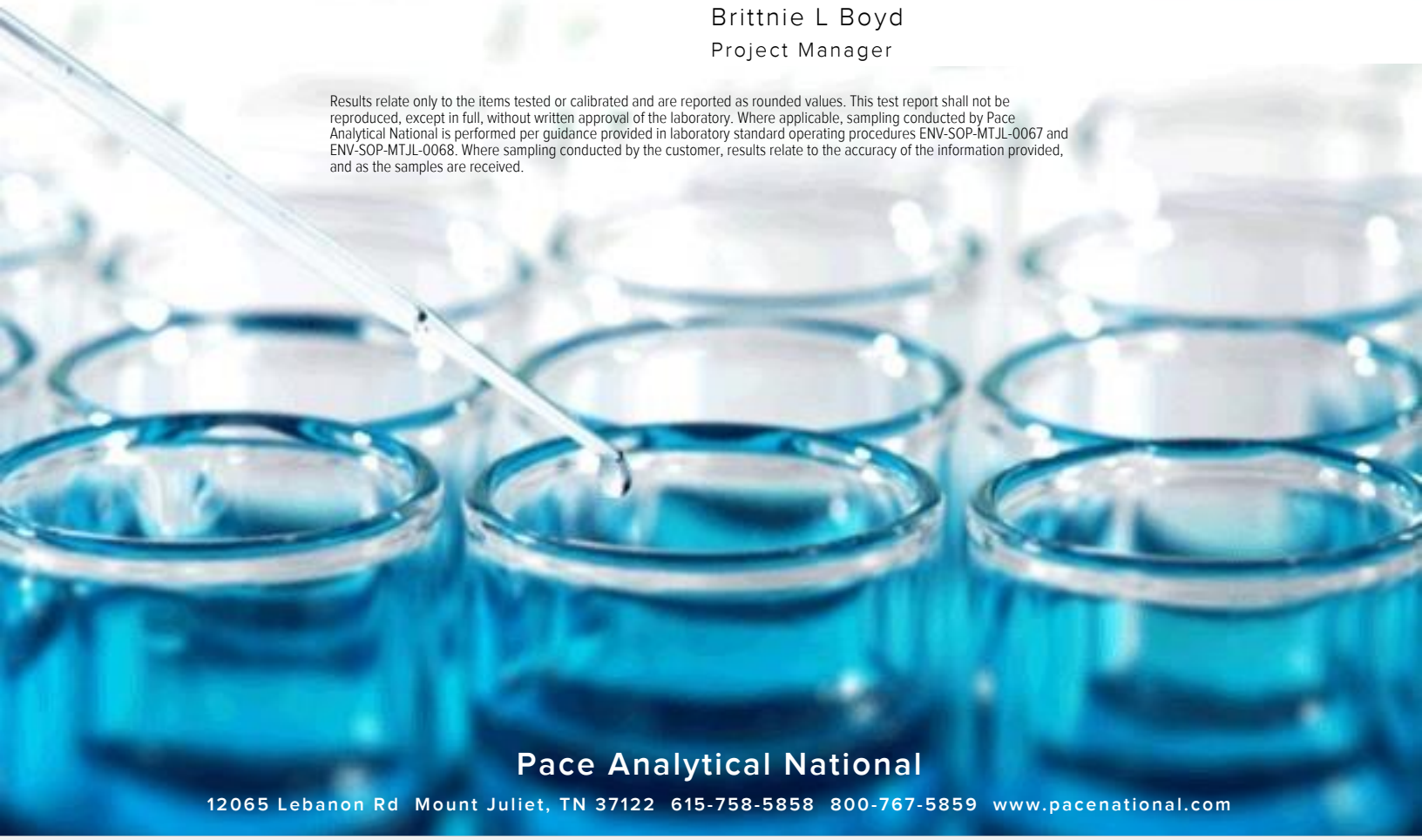
Plains All American, LP - GHD

Sample Delivery Group:	L1561283
Samples Received:	11/23/2022
Project Number:	SRS2006-142
Description:	Lovington Gathering WTI
Site:	SRS 2006-142
Report To:	Matthew Laughlin 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Brittnie L Boyd
Project Manager

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



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

TABLE OF CONTENTS

LG-MW-9-112122 L1561283-01 GW

Collected by: Ryan Livingston | Collected date/time: 11/21/22 12:35 | Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 15:03	11/27/22 15:03	BAM	Mt. Juliet, TN

LG-MW-7-112122 L1561283-02 GW

Collected by: Ryan Livingston | Collected date/time: 11/21/22 13:05 | Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 15:26	11/27/22 15:26	BAM	Mt. Juliet, TN

LG-MW-3R-112122 L1561283-03 GW

Collected by: Ryan Livingston | Collected date/time: 11/21/22 13:30 | Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 15:47	11/27/22 15:47	BAM	Mt. Juliet, TN

LG-MW-11-112122 L1561283-04 GW

Collected by: Ryan Livingston | Collected date/time: 11/21/22 13:35 | Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 16:09	11/27/22 16:09	BAM	Mt. Juliet, TN

LG-MW-1R-112122 L1561283-05 GW

Collected by: Ryan Livingston | Collected date/time: 11/21/22 14:15 | Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 16:32	11/27/22 16:32	BAM	Mt. Juliet, TN

LG-MW-2R-112122 L1561283-06 GW

Collected by: Ryan Livingston | Collected date/time: 11/21/22 14:20 | Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 16:54	11/27/22 16:54	BAM	Mt. Juliet, TN

LG-MW-4R-112122 L1561283-07 GW

Collected by: Ryan Livingston | Collected date/time: 11/21/22 14:45 | Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	20	11/27/22 18:22	11/27/22 18:22	BAM	Mt. Juliet, TN

LG-MW-5R-112122 L1561283-08 GW

Collected by: Ryan Livingston | Collected date/time: 11/21/22 14:50 | Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 17:16	11/27/22 17:16	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1968833	10	12/05/22 00:04	12/05/22 00:04	ADM	Mt. Juliet, TN

LG-MW-12-112122 L1561283-09 GW

Collected by: Ryan Livingston
Collected date/time: 11/21/22 15:30
Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	10	11/27/22 18:44	11/27/22 18:44	BAM	Mt. Juliet, TN

LG-HOUSE WELL-112122 L1561283-10 GW

Collected by: Ryan Livingston
Collected date/time: 11/21/22 16:00
Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 17:38	11/27/22 17:38	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1968833	1	12/04/22 22:14	12/04/22 22:14	ADM	Mt. Juliet, TN

LG-DUP-1-112122 L1561283-11 GW

Collected by: Ryan Livingston
Collected date/time: 11/21/22 00:00
Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 18:00	11/27/22 18:00	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1968833	20	12/05/22 00:26	12/05/22 00:26	ADM	Mt. Juliet, TN

LG-TB-112122 L1561283-12 GW

Collected by: Ryan Livingston
Collected date/time: 11/21/22 00:00
Received date/time: 11/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1965400	1	11/27/22 12:07	11/27/22 12:07	BAM	Mt. Juliet, TN

CASE NARRATIVE

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.

Brittnie L Boyd
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Brittnie L Boyd

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 12/06/2022 09:33
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1561283-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1965400 and WG1968833

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 12/06/2022 09:33
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1561283-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1965400 and WG1968833

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Revised May 2010

Laboratory Name: Pace Analytical National	LRC Date: 12/06/2022 09:33
Project Name: Lovington Gathering WTI	Laboratory Job Number: L1561283-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Brittnie L Boyd	Prep Batch Number(s): WG1965400 and WG1968833

ER #[1]	Description
	The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	11/27/2022 15:03	WG1965400
Toluene	U		0.000412	0.00100	0.00100	1	11/27/2022 15:03	WG1965400
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/27/2022 15:03	WG1965400
Total Xylene	U		0.000510	0.00150	0.00150	1	11/27/2022 15:03	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/27/2022 15:03*	WG1965400

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

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	11/27/2022 15:26	WG1965400
Toluene	U		0.000412	0.00100	0.00100	1	11/27/2022 15:26	WG1965400
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/27/2022 15:26	WG1965400
Total Xylene	U		0.000510	0.00150	0.00150	1	11/27/2022 15:26	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/27/2022 15:26*	WG1965400

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0642		0.000190	0.000500	0.000500	1	11/27/2022 15:47	WG1965400
Toluene	U		0.000412	0.00100	0.00100	1	11/27/2022 15:47	WG1965400
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/27/2022 15:47	WG1965400
Total Xylene	U		0.000510	0.00150	0.00150	1	11/27/2022 15:47	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*11/27/2022 15:47*	WG1965400

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000212	J	0.000190	0.000500	0.000500	1	11/27/2022 16:09	WG1965400
Toluene	U		0.000412	0.00100	0.00100	1	11/27/2022 16:09	WG1965400
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/27/2022 16:09	WG1965400
Total Xylene	U		0.000510	0.00150	0.00150	1	11/27/2022 16:09	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/27/2022 16:09*	WG1965400

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.00460		0.000190	0.000500	0.000500	1	11/27/2022 16:32	WG1965400
Toluene	U		0.000412	0.00100	0.00100	1	11/27/2022 16:32	WG1965400
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/27/2022 16:32	WG1965400
Total Xylene	U		0.000510	0.00150	0.00150	1	11/27/2022 16:32	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/27/2022 16:32*	WG1965400

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0280		0.000190	0.000500	0.000500	1	11/27/2022 16:54	WG1965400
Toluene	U		0.000412	0.00100	0.00100	1	11/27/2022 16:54	WG1965400
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/27/2022 16:54	WG1965400
Total Xylene	U		0.000510	0.00150	0.00150	1	11/27/2022 16:54	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/27/2022 16:54*	WG1965400

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.276		0.00380	0.000500	0.0100	20	11/27/2022 18:22	WG1965400
Toluene	U		0.00824	0.00100	0.0200	20	11/27/2022 18:22	WG1965400
Ethylbenzene	U		0.00320	0.000500	0.0100	20	11/27/2022 18:22	WG1965400
Total Xylene	U		0.0102	0.00150	0.0300	20	11/27/2022 18:22	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/27/2022 18:22*	WG1965400

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.387		0.00190	0.000500	0.00500	10	12/05/2022 00:04	WG1968833
Toluene	0.00217		0.000412	0.00100	0.00100	1	11/27/2022 17:16	WG1965400
Ethylbenzene	0.00212		0.000160	0.000500	0.000500	1	11/27/2022 17:16	WG1965400
Total Xylene	0.000874	J	0.000510	0.00150	0.00150	1	11/27/2022 17:16	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*105*				*79.0-125*		*11/27/2022 17:16*	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*104*				*79.0-125*		*12/05/2022 00:04*	WG1968833

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.632		0.00190	0.000500	0.00500	10	11/27/2022 18:44	WG1965400
Toluene	U		0.00412	0.00100	0.0100	10	11/27/2022 18:44	WG1965400
Ethylbenzene	U		0.00160	0.000500	0.00500	10	11/27/2022 18:44	WG1965400
Total Xylene	U		0.00510	0.00150	0.0150	10	11/27/2022 18:44	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*11/27/2022 18:44*	WG1965400

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	12/04/2022 22:14	WG1968833
Toluene	U		0.000412	0.00100	0.00100	1	11/27/2022 17:38	WG1965400
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/27/2022 17:38	WG1965400
Total Xylene	U		0.000510	0.00150	0.00150	1	11/27/2022 17:38	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*100*				*79.0-125*		*11/27/2022 17:38*	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*12/04/2022 22:14*	WG1968833

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.475		0.00380	0.000500	0.0100	20	12/05/2022 00:26	WG1968833
Toluene	U		0.000412	0.00100	0.00100	1	11/27/2022 18:00	WG1965400
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/27/2022 18:00	WG1965400
Total Xylene	U		0.000510	0.00150	0.00150	1	11/27/2022 18:00	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*11/27/2022 18:00*	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*104*				*79.0-125*		*12/05/2022 00:26*	WG1968833

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000196	J	0.000190	0.000500	0.000500	1	11/27/2022 12:07	WG1965400
Toluene	U		0.000412	0.00100	0.00100	1	11/27/2022 12:07	WG1965400
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/27/2022 12:07	WG1965400
Total Xylene	U		0.000510	0.00150	0.00150	1	11/27/2022 12:07	WG1965400
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*11/27/2022 12:07*	WG1965400

Method Blank (MB)

(MB) R3867808-3 11/27/22 11:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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)	*101*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3867808-2 11/27/22 10:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0454	90.8	77.0-122	
Toluene	0.0500	0.0489	97.8	80.0-121	
Ethylbenzene	0.0500	0.0498	99.6	80.0-123	
Total Xylene	0.150	0.144	96.0	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*102*	*79.0-125*	

Method Blank (MB)

(MB) R3868402-3 12/04/22 19:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(PID)	*104*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3868402-1 12/04/22 15:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0458	91.6	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			*105*	*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

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

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

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Plains All American, LP - GHD
2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Karolanne Hudgens
1106 Griffith Drive
Midland, TX 79705

Report to: **John Fergerson**

Email To: john.fergerson@ghd.com
KHudgens@paalp.com

Project Description: Lovington Gathering WTI

City/State Collected: **NM**

Please Circle: PT MT CT ET

Phone: **432-894-7848**

Client Project # **SRS2006-142**

Lab Project # **PLAINSGHD-12572711**

Collected by (print): Ryan Livingston

Site/Facility ID # **SRS 2006-142**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	BTEX 8021 40mLAmb-HCL	PAHSIMLVI 40mLAmb-NoPres-WT	Remarks	Sample # (lab only)
LG-MW-9-112122	Grab	GW		11-21-22	12:35	3	X			-01
LG-MW-7-112122	Grab	GW			13:05	1				-02
LG-MW-3R-112122	Grab	GW			13:30	1				-03
LG-MW-11-112122	Grab	GW			13:35	1				-04
LG-MW-1R-112122	Grab	GW			14:15	1				-05
LG-MW-2R-112122	Grab	GW			14:20	1				-06
LG-MW-4R-112122	Grab	GW			14:45	1				-07
LG-MW-5R-112122	Grab	GW			1450	1				-08
LG-MW-12-112122	Grab	GW			15:30	1				-09
LG-House Well-112122	Grab	GW			1600	1				-10

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 156123

D066

Acctnum: PLAINSGHD
Template: T202565
Prelogin: P963260
PM: Brittnie L Boyd
PB:
Shipped Via:

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking # 7705 6256 4550

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	11-22-22	10:00		5
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.1°C Bottles Received: 33
				5.6 to 5.6
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/23/22 Time: 0700

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE
12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 156283
Table #
Acctnum: PLAINSGHD
Template: T202565
Prelogin: P963260
PM: Brittnie L Boyd
PB:
Shipped Via:

Company Name/Address:
Plains All American, LP - GHD
2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Karolanne Hudgens
1106 Griffith Drive
Midland, TX 79705

Report to: John Fergerson
Email To: john.fergerson@ghd.com, KHudgens@paalp.com

Project Description: Lovington Gathering WTI
City/State Collected: NM
Please Circle: PT MT CT ET

Phone: 432-894-7848
Client Project # SRS2006-142
Lab Project # PLAINSGHD-12572711

Collected by (print): Ryan Livingston
Site/Facility ID # SRS 2006-142
P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X
Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Quote #
Date Results Needed

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	BTEX 8021 40mLAmb-HCL	PAHSIMLVI 40mLAmb-NoPres-WT	Remarks	Sample # (lab only)
LG-Dup-1-112122	Grab			11-21-22	—	3	X			-11
LG-TB-112122	Grab			—	—	3	X			-12
	Grab									
	Grab									
	Grab									
	Grab									
	Grab									
	Grab									
	Grab									
	Grab									

Pres Chk

Analysis / Container / Preservative

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

Remarks:

pH ____ Temp ____
Flow ____ Other ____

Samples returned via:
__ UPS X FedEx __ Courier
Tracking # 7705 6256 4550

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	11-22-22	10:00	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: (Yes) No
HCL / MeoH
TBR
3
Temp: 0.4 °C Bottles Received: 33
5.6 5.4
Date: 11/23/22 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 200299

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	34053
	Action Number: 200299
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2022 Annual Groundwater Report: Content Satisfactory 1. Continue groundwater monitoring on a quarterly basis for all site monitoring wells. 2. Continue off-site monitoring for Goff Dairy and JW House locations. 3. Inspect and replace ORC filter socks as necessary in MW-3R, MW-1R, MW-2R, MW-4R, MW-12. 4. Install an ORC sock in MW-5R. 5. Submit the 2023 Annual Groundwater Report by April 1, 2024.	7/26/2023