



REVIEWED

By Mike Buchanan at 10:54 am, Jun 06, 2023

2022 Annual Groundwater Monitoring Report

**Chevron Grayburg 6-Inch Section 6 (Historical)
Plains SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637
Incident ID #: nAPP2108849308**

Plains Pipeline, L.P.

March 21, 2023

→ **The Power of Commitment**

Review of 2022 Annual GW Monitoring
Report Chevron Grayburg 6-inch
Section 6: **Content Satisfactory**

1. Continue NMOCD-approved quarterly groundwater monitoring events for sampling of groundwater and analysis of BTEX for all site wells and annual sampling for PAH for MW-7, MW-8 and MW-12.
2. Continue monthly LNAPL abatement where necessary.
3. Complete a work plan proposal to NMOCD per the recommendation.

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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 completed at Chevron Grayburg 6-Inch Sec. 6 (Historical [Site]) during 2022. Quarterly groundwater monitoring events were conducted on February 22, 2022, May 24 - 25, 2022, August 24 and September 13, 2022, and November 2 - 3, 2022.

1.1 Site Location History

The Site is located approximately 14 miles southwest of Lovington and in the NW $\frac{1}{4}$, NE $\frac{1}{4}$, Section 6, Township 18 South, Range 35 East in Lea County, New Mexico. The coordinates of this Site are 32.7811° N and 103.4925° W. The property affected by the release is owned by the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). 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 October 8, 2010, due to an excavator striking a tee connected to the Chevron Grayburg 6-inch pipeline during line replacement. An Initial Release Notification and Corrective Action, Form C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on October 8, 2010, and was assigned Remediation Permit (RP) 1RP-2637. A copy of the Release Notification and Corrective Action, Form C-141 is attached as Appendix A.

On October 22, 2010, project management and remediation responsibilities were assumed by Basin Environmental Service Technologies, LLC (Basin). In June 2012, four (4) monitoring wells (MW-1, MW-2, MW-3, and MW-4) were installed to delineate the extent and evaluate the contaminants of concern (COCs) in impacted groundwater. In March 2013, three (3) monitoring wells (MW-5, MW-6, and MW-7) were installed to further delineate the groundwater conditions. On October 1, 2016, GHD assumed Site groundwater project management and remediation responsibilities. Results of groundwater monitoring events and light non-aqueous phase liquid (LNAPL) recovery prior to October 1, 2016, were provided by Plains.

Currently, the Site has a network of fourteen (14) groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14), which are monitored quarterly to evaluate the concentrations of contaminants of concern (COC) in impacted groundwater and evaluate the magnitude and extent of the LNAPL plume. 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 monomethylnaphthalenes (1-methylnaphthalenes and 2-methylnaphthalenes). On November 13 and 16, 2017, GHD provided oversight to drilling and installation of seven (7) monitoring wells (MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14) to further delineate the extent and evaluate the concentrations of COCs in impacted groundwater and delineate the magnitude and extent of the LNAPL plume. A detailed map of the Site with monitoring well locations depicted is provided on Figure 2.

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 COCs in affected groundwater at the Site are BTEX and PAH. In this Report, groundwater analytical results for the main COCs

are compared to the NMWQCC standards. For PAH compounds not having a 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-Monomethylnaphthalene	0.03 mg/L

3. Groundwater Monitoring

3.1 Groundwater Monitoring Methodology

The Site's groundwater conditions were monitored quarterly during 2022. The four (4) monitoring well gauging, purging, and sampling events were conducted on February 22, 2022, May 24 - 25, 2022, August 24 and September 13, 2022, and November 2 - 3, 2022. Static fluid levels were gauged with an electronic oil-water interface probe to the nearest hundredth of a foot and recorded. Monitoring wells gauged with a measurable thickness (>0.01 foot [ft.]) of LNAPL were not purged or sampled. A summary of measured depths to groundwater, measured depths to LNAPL, LNAPL thickness, and calculated groundwater elevations are provided in Table 1. All non-disposable groundwater gauging equipment was washed 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) water column volumes of groundwater were removed.

After purging each monitoring well, a sample of groundwater from each respective monitoring well was collected via the PVC bailer. Laboratory-supplied containers were filled with groundwater directly from the PVC bailer. The collected samples were then labelled with corresponding well information and immediately placed on ice and chilled to a temperature of 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, Site 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. Groundwater samples from two (2) monitoring wells (MW-8 and MW-9) were submitted for analysis of PAH.

Purge 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 licensed disposal facility as directed by Plains. Disposal records are available upon request.

3.2 The Potentiometric Surface and Gradient

The direction of groundwater flow was generally west-southwest during the quarterly gauging events. The average gradient of the potentiometric surface during 2022 was 0.002 feet/foot (ft./ft.), which indicated an average increase of 0.001 ft./ft. between November 2021 and November 2022. Magnitudes and direction of these gradients are 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 measured 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 had declined an average of 1.10 ft. between November 2021 and November 2022. The changes in the groundwater gradients and levels may be attributed to seasonal weather fluctuations. 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 groundwater gauging and elevation data collected from 2017 through 2022 is tabulated in Table 1.

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

Measurable thicknesses of LNAPL were exhibited in monitoring wells MW-7 (6.38 ft., 2.81 ft., 0.62 ft., and 0.03 ft.) and well MW-12 (0.77 ft., 0.88 ft., 0.66 ft., and 0.13 ft.) during all quarterly monitoring events. The respective LNAPL thicknesses measured for the four (4) quarterly gauging events are provided in Table 1 and on Figure 7, Figure 8, Figure 9, and Figure 10.

3.4 Dissolve-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 all Site monitoring wells 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 22, 2022. Measurable thicknesses of LNAPL were gauged in monitoring wells MW-7 (6.38 ft.) and well MW-12 (0.77 ft.) during the event. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14. Approximately 141 gallons of groundwater were purged and disposed into the on-site AST. Analytical results indicated a benzene concentration greater than 0.01 mg/L in monitoring wells MW-1, MW-8, and MW-11. The analytical results indicated the toluene, ethylbenzene, and total xylene concentrations were less than the 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.

3.4.2 Second Quarter Summary

GHD conducted the second quarterly groundwater gauging, purging, and sampling event on May 24 - 25, 2022. Measurable thicknesses of LNAPL were gauged in monitoring wells MW-7 (2.81 ft.) and MW-12 (0.88 ft.) during the event. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14. Approximately 134 gallons of groundwater were purged and disposed into the on-site AST. Analytical results indicated benzene concentrations greater than 0.01 mg/L in monitoring wells MW-1, MW-8, and MW-11. The analytical results indicated the toluene, ethylbenzene, and total xylenes concentrations were less than the 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.

3.4.3 Third Quarter Summary

GHD conducted the third quarterly groundwater gauging, purging, and sampling event on August 24 - 25, 2022. Measurable thicknesses of LNAPL were gauged in monitoring wells MW-7 (0.62 ft.) and MW-12 (0.66 ft.) during the event. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14. Approximately 117.5 gallons of groundwater were purged and disposed into the on-site AST. On September 13, 2022, the Site monitoring wells were resampled due to the laboratory mishandling of the collected samples Chain-of-Custody, the samples being misplaced at the lab, and the hold time being exceeded. Analytical results indicated benzene concentrations greater than 0.01 mg/L in monitoring wells MW-1, MW-8, and MW-11. The analytical results indicated the toluene, ethylbenzene, and total xylenes concentrations were less than the 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.

3.4.4 Fourth Quarter Summary

GHD conducted the fourth quarterly groundwater gauging, purging, and sampling event on November 2 - 3, 2022. Measurable thicknesses of LNAPL were measured in monitoring wells MW-7 (0.03 ft.) and MW-12 (0.13 ft.) during event. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14. Approximately 201.1 gallons of groundwater were purged and disposed into the on-site AST. Analytical results indicated benzene concentrations greater than 0.01 mg/L in monitoring wells MW-1, MW-3, MW-8, and MW-11. Analytical results indicated the toluene, ethylbenzene, and total xylenes concentrations were less than the NMWQCC criteria for each respective sample. Analytical results for the initial and field duplicate samples collected from MW-8 were not significantly different. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

Groundwater samples from MW-8 and MW-9 were also analyzed for PAH due to not having previously met the criteria of two (2) consecutive years of PAH concentrations being below the NMWQCC standards or a concentration 0.001 mg/L for PAH compounds with an undefined NMWQCC standard. Analytical results for MW-8 indicated an exceedance of naphthalene above Table 1 criteria. Analytical results for MW-9 indicated all PAH concentrations were below the Table 1 criteria and has met the two consecutive year requirement. A summary of PAH analytical results is provided in Table 3. A copy of the Certified Laboratory Analytical Report is attached as Appendix B.

4. Remediation Activities

In April 2022, GHD field personnel initiated monthly LNAPL abatement via hand bailing for monitoring wells MW-7 and MW-12 with approximately 5.2 gallons of LNAPL recovered for 2022.

During the second half of 2022, monthly BTEX abatement was initiated via hand bailing for monitoring wells MW-1, MW-7, MW-8, and MW-12 with approximately 66.4 gallons of groundwater recovered for 2022.

LNAPL and impacted groundwater recovery is conducted on a quarterly basis via mobile dual phase extraction (MDPE) conducted by Talon-LPE (Talon). Each MDPE event was conducted at monitoring well MW-7 for 12 hours. According to Talon, total recovery of liquid hydrocarbons collected during 2022 was approximately 52 gallons, total recovery of hydrocarbon vapor was equivalent to approximately 45.82 gallons, and total fluid recovery was approximately 97.82 gallons. All fluids recovered from the MDPE events were disposed of at a licensed disposal facility, and all hydrocarbon vapors were destroyed in a thermal oxidizer within the emissions limits established by the PI-7 Permit for the oxidizer unit.

5. Summary of Findings

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

- Measurable LNAPL thicknesses were present on the groundwater of monitoring wells MW-7 and MW-12 during the monitoring events. The LNAPL thickness in MW-7 has decreased from 6.38 ft. in February to 0.03 ft. in November. The LNAPL thickness in MW-12 has decreased from 0.88 ft. in May to 0.13 in November.
- No monitoring wells were gauged dry throughout 2022.
- The groundwater flow direction was generally to the west-southwest during the quarterly events. The average gradient of the potentiometric surface during 2022 was 0.002 ft./ft.
- The potentiometric surface indicated groundwater elevations have declined an average of 1.10 ft. between November 2021 and November 2022. Fluctuations in the elevation of the potentiometric surface may be attributed to seasonal weather conditions.
- Twelve (12) of the Site's fourteen (14) monitoring wells were purged and sampled using a hand bailer for determination of the BTEX concentration during the monitoring events.
- Benzene concentrations exceeded the NMWQCC Human Health Standard for monitoring wells MW-1, MW-8, and MW-11 during the quarterly events.
- Toluene, ethylbenzene, and total xylene concentrations were less than the NMWQCC Human Health Standard for monitoring wells MW-1, MW-8, and MW-11 during the quarterly events.
- PAH analysis for monitoring well MW-8 indicated a concentration exceedance of naphthalene and PAH analysis for monitoring well MW-9 indicated no exceedances of PAH concentrations.
- Monthly LNAPL and BTEX abatement was conducted during 2022.
- Quarterly MDPE events were conducted at monitoring well MW-7 by Talon.

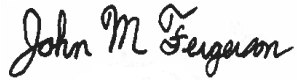
6. Conclusions and Recommendations

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

- Continue NMOCD-approved quarterly groundwater monitoring events for sampling of groundwater and analysis of BTEX by EPA Method SW846-8021B for all Site monitoring wells and annual sampling of groundwater for PAH analysis by EPA Method SW846-8270C-SIM on MW-7, MW-8, and MW-12 as applicable.
- Monitoring well MW-9 has met the 2 consecutive years of PAH compounds being below the EPA and NMWQCC standards.
- Continue monthly LNAPL abatement in monitoring wells MW-7 and MW-12.
- Continue monthly BTEX abatement in monitoring wells MW-1, MW-7, MW-8, and MW-12 and add MW-11 to list.
- Continue quarterly MDPE events conducted by Talon at monitoring well MW-7.
- Complete and deliver a Work Plan for plugging and abandoning of monitoring wells MW-1 and MW-2, due to both having <5 ft. of fluid columns, and the installation of replacement and new monitoring wells to evaluate the Site's groundwater conditions and maintain delineation.

All of which is Respectfully Submitted,

GHD

A handwritten signature in blue ink that reads "John M. Ferguson". The signature is written in a cursive style with a large, stylized "J" and "F".

John Ferguson
Project Scientist

A handwritten signature in blue ink that reads "JT Murrey". The signature is written in a cursive style with a large, stylized "J" and "M".

JT Murrey
Project Director

Table 1
Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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	3/15/17	3982.09	122.54	--	--	3859.55	128.63
MW-1	6/20/17	3982.09	122.34	--	--	3859.75	128.67
MW-1	9/18/17	3982.09	122.20	--	--	3859.89	130.71
MW-1	11/29/17	3982.09	122.20	--	--	3859.89	128.90
MW-1	1/24/18	3982.09	122.13	--	--	3859.96	--
MW-1	2/19/18	3982.09	122.11	--	--	3859.98	128.67
MW-1	3/9/18	3982.09	--	--	--	--	--
MW-1	5/11/18	3982.09	--	--	--	--	--
MW-1	5/23/18	3982.09	122.34	--	--	3859.75	128.79
MW-1	6/8/18	3982.09	--	--	--	--	--
MW-1	7/13/18	3982.09	--	--	--	--	--
MW-1	8/10/18	3982.09	--	--	--	--	--
MW-1	8/22/18	3982.09	122.55	--	--	3859.54	128.84
MW-1	10/19/18	3982.09	--	--	--	--	--
MW-1	11/9/18	3982.09	--	--	--	--	--
MW-1	11/14/18	3982.09	122.54	--	--	3859.55	--
MW-1	12/14/18	3982.09	--	--	--	--	--
MW-1	2/8/19	3982.09	122.77	--	--	3859.32	--
MW-1	2/25/19	3982.09	122.67	--	--	3859.42	128.84
MW-1	5/29/19	3982.09	122.86	--	--	3859.23	--
MW-1	6/13/19	3982.09	122.81	--	--	3859.28	--
MW-1	7/29/19	3982.09	122.95	--	--	3859.14	--
MW-1	10/16/19	3982.09	122.99	--	--	3859.10	--
MW-1	11/4/19	3982.09	--	--	--	--	--
MW-1	12/9/19	3982.09	--	--	--	--	--
MW-1	1/10/20	3982.09	--	--	--	--	--
MW-1	2/19/20	3982.09	--	--	--	--	--
MW-1	2/24/20	3982.09	123.07	--	--	3859.02	135.59
MW-1	3/13/20	3982.09	--	--	--	--	--
MW-1	4/29/20	3982.09	123.24	--	--	3858.85	--
MW-1	5/26/20	3982.09	123.14	--	--	3858.95	--
MW-1	6/16/20	3982.09	123.13	--	--	3858.96	--
MW-1	7/30/20	3982.09	123.14	--	--	3858.95	--
MW-1	8/26/20	3982.09	123.05	--	--	3859.04	--
MW-1	9/17/20	3982.09	123.18	--	--	3858.91	128.90
MW-1	10/21/20	3982.09	123.20	--	--	3858.89	--
MW-1	11/4/20	3982.09	123.26	--	--	3858.83	--
MW-1	12/9/20	3982.09	123.22	--	--	3858.87	--
MW-1	1/28/21	3982.09	123.31	--	--	3858.78	--
MW-1	2/25/21	3982.09	123.33	--	--	3858.76	128.97
MW-1	3/24/21	3982.09	123.33	--	--	3858.76	--
MW-1	4/30/21	3982.09	123.33	--	--	3858.76	--
MW-1	5/11/21	3982.09	123.39	--	--	3858.70	--
MW-1	6/28/21	3982.09	123.33	--	--	3858.76	--
MW-1	7/27/21	3982.09	123.26	--	--	3858.83	--
MW-1	8/24/21	3982.09	123.25	--	--	3858.84	--
MW-1	9/30/21	3982.09	123.40	--	--	3858.69	128.97
MW-1	10/28/21	3982.09	123.45	--	--	3858.64	128.97
MW-1	11/16/21	3982.09	122.49	--	--	3859.60	128.97
MW-1	2/1/22	3982.09	123.78	--	--	3858.31	128.97
MW-1	2/22/22	3982.09	123.89	--	--	3858.20	128.91
MW-1	3/16/22	3982.09	123.91	--	--	3858.18	128.91
MW-1	4/11/22	3982.09	123.99	--	--	3858.10	128.91
MW-1	5/24/22	3982.09	124.16	--	--	3857.93	128.91
MW-1	6/15/22	3982.09	124.27	--	--	3857.82	128.91
MW-1	7/28/22	3982.09	124.25	--	--	3857.84	128.91
MW-1	8/24/22	3982.09	124.39	--	--	3857.70	128.91
MW-1	11/2/22	3982.09	124.55	--	--	3857.54	128.91
MW-2	3/15/17	3981.21	121.62	--	--	3859.59	127.17
MW-2	6/20/17	3981.21	121.45	--	--	3859.76	127.25
MW-2	9/18/17	3981.21	121.25	--	--	3859.96	127.19
MW-2	11/29/17	3981.21	121.29	--	--	3859.92	127.19
MW-2	1/24/18	3981.21	121.22	--	--	3859.99	--
MW-2	2/19/18	3981.21	121.20	--	--	3860.01	127.24
MW-2	3/9/18	3981.21	--	--	--	--	--
MW-2	5/11/18	3981.21	--	--	--	--	--
MW-2	5/23/18	3981.21	121.43	--	--	3859.78	127.31
MW-2	8/10/18	3981.21	--	--	--	--	--
MW-2	8/22/18	3981.21	121.63	--	--	3859.58	127.22
MW-2	11/9/18	3981.21	--	--	--	--	--
MW-2	11/14/18	3981.21	121.60	--	--	3859.61	--
MW-2	12/14/18	3981.21	--	--	--	--	--
MW-2	2/8/19	3981.21	121.87	--	--	3859.34	--

Table 1
Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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-2	2/25/19	3981.21	121.77	--	--	3859.44	127.22
MW-2	5/29/19	3981.21	121.96	--	--	3859.25	--
MW-2	7/11/19	3981.21	--	--	--	--	--
MW-2	7/29/19	3981.21	122.04	--	--	3859.17	--
MW-2	10/16/19	3981.21	122.06	--	--	3859.15	--
MW-2	2/24/20	3981.21	122.19	--	--	3859.02	127.41
MW-2	4/29/20	3981.21	122.35	--	--	3858.86	--
MW-2	5/26/20	3981.21	122.22	--	--	3858.99	--
MW-2	6/16/20	3981.21	123.50	--	--	3857.71	--
MW-2	7/30/20	3981.21	122.23	--	--	3858.98	--
MW-2	8/26/20	3981.21	123.52	--	--	3857.69	--
MW-2	9/17/20	3981.21	122.29	--	--	3858.92	127.38
MW-2	10/21/20	3981.21	122.27	--	--	3858.94	--
MW-2	11/4/20	3981.21	122.35	--	--	3858.86	--
MW-2	12/9/20	3981.21	122.29	--	--	3858.92	--
MW-2	1/28/21	3981.21	122.38	--	--	3858.83	--
MW-2	2/25/21	3981.21	122.44	--	--	3858.77	127.65
MW-2	3/24/21	3981.21	122.43	--	--	3858.78	--
MW-2	4/30/21	3981.21	122.45	--	--	3858.76	--
MW-2	5/11/21	3981.21	122.46	--	--	3858.75	--
MW-2	6/28/21	3981.21	122.41	--	--	3858.80	--
MW-2	7/27/21	3981.21	122.35	--	--	3858.86	--
MW-2	8/24/21	3981.21	122.35	--	--	3858.86	--
MW-2	9/30/21	3981.21	122.49	--	--	3858.72	127.65
MW-2	10/28/21	3981.21	122.54	--	--	3858.67	127.65
MW-2	11/16/21	3981.21	122.54	--	--	3858.67	127.65
MW-2	2/1/22	3981.21	122.86	--	--	3858.35	127.65
MW-2	2/22/22	3981.21	122.95	--	--	3858.26	127.65
MW-2	3/16/22	3981.21	123.02	--	--	3858.19	127.65
MW-2	4/11/22	3981.21	123.12	--	--	3858.09	127.65
MW-2	5/24/22	3981.21	123.21	--	--	3858.00	127.65
MW-2	6/15/22	3981.21	123.35	--	--	3857.86	127.65
MW-2	7/28/22	3981.21	123.37	--	--	3857.84	127.65
MW-2	8/24/22	3981.21	123.52	--	--	3857.69	127.65
MW-2	11/2/22	3981.21	123.66	--	--	3857.55	127.65
MW-3	3/15/17	3982.31	122.79	--	--	3859.52	131.69
MW-3	6/20/17	3982.31	122.61	--	--	3859.70	131.66
MW-3	9/18/17	3982.31	122.45	--	--	3859.86	133.46
MW-3	11/29/17	3982.31	122.47	--	--	3859.84	131.61
MW-3	1/24/18	3982.31	122.39	--	--	3859.92	--
MW-3	2/19/18	3982.31	122.43	--	--	3859.88	131.56
MW-3	3/9/18	3982.31	--	--	--	--	--
MW-3	5/11/18	3982.31	--	--	--	--	--
MW-3	5/23/18	3982.31	122.61	--	--	3859.70	131.61
MW-3	8/10/18	3982.31	--	--	--	--	--
MW-3	8/22/18	3982.31	122.79	--	--	3859.52	131.54
MW-3	9/14/18	3982.31	--	--	--	--	--
MW-3	11/9/18	3982.31	--	--	--	--	--
MW-3	11/14/18	3982.31	122.77	--	--	3859.54	--
MW-3	12/14/18	3982.31	--	--	--	--	--
MW-3	1/11/19	3982.31	--	--	--	--	--
MW-3	2/8/19	3982.31	123.04	--	--	3859.27	--
MW-3	2/25/19	3982.31	122.95	--	--	3859.36	131.54
MW-3	5/29/19	3982.31	123.10	--	--	3859.21	--
MW-3	6/13/19	3982.31	123.12	--	--	3859.19	--
MW-3	7/11/19	3982.31	--	--	--	--	--
MW-3	7/29/19	3982.31	123.21	--	--	3859.10	--
MW-3	9/13/19	3982.31	--	--	--	--	--
MW-3	10/16/19	3982.31	123.27	--	--	3859.04	--
MW-3	11/4/19	3982.31	--	--	--	--	--
MW-3	12/9/19	3982.31	--	--	--	--	--
MW-3	1/10/20	3982.31	--	--	--	--	--
MW-3	2/19/20	3982.31	--	--	--	--	--
MW-3	2/24/20	3982.31	123.39	--	--	3858.92	131.76
MW-3	3/13/20	3982.31	--	--	--	--	--
MW-3	4/29/20	3982.31	123.51	--	--	3858.80	--
MW-3	5/26/20	3982.31	123.40	--	--	3858.91	--
MW-3	6/16/20	3982.31	123.40	--	--	3858.91	--
MW-3	7/30/20	3982.31	123.40	--	--	3858.91	--
MW-3	8/26/20	3982.31	123.42	--	--	3858.89	--
MW-3	9/15/20	3982.31	123.44	--	--	3858.87	--
MW-3	9/15/20	3982.31	123.47	--	--	3858.84	--
MW-3	9/17/20	3982.31	123.45	--	--	3858.86	131.45

Table 1
Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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-3	10/21/20	3982.31	123.46	--	--	3858.85	--
MW-3	11/4/20	3982.31	123.57	--	--	3858.74	--
MW-3	12/9/20	3982.31	123.50	--	--	3858.81	--
MW-3	1/28/21	3982.31	123.63	--	--	3858.68	--
MW-3	2/25/21	3982.31	123.63	--	--	3858.68	131.47
MW-3	3/24/21	3982.31	123.59	--	--	3858.72	--
MW-3	4/30/21	3982.31	123.61	--	--	3858.70	--
MW-3	5/11/21	3982.31	123.66	--	--	3858.65	--
MW-3	6/28/21	3982.31	123.60	--	--	3858.71	--
MW-3	7/27/21	3982.31	123.52	--	--	3858.79	--
MW-3	8/24/21	3982.31	123.51	--	--	3858.80	--
MW-3	9/30/21	3982.31	123.67	--	--	3858.64	131.47
MW-3	10/28/21	3982.31	123.72	--	--	3858.59	131.47
MW-3	11/16/21	3982.31	123.70	--	--	3858.61	131.47
MW-3	2/1/22	3982.31	124.02	--	--	3858.29	131.47
MW-3	2/22/22	3982.31	124.17	--	--	3858.14	131.39
MW-3	3/16/22	3982.31	124.18	--	--	3858.13	131.39
MW-3	4/11/22	3982.31	124.25	--	--	3858.06	131.39
MW-3	5/24/22	3982.31	124.43	--	--	3857.88	131.39
MW-3	6/15/22	3982.31	124.52	--	--	3857.79	131.39
MW-3	7/28/22	3982.31	124.52	--	--	3857.79	131.39
MW-3	8/24/22	3982.31	124.68	--	--	3857.63	131.39
MW-3	11/2/22	3982.31	124.82	--	--	3857.49	131.39
MW-4	3/15/17	3982.48	122.84	--	--	3859.64	135.32
MW-4	6/20/17	3982.48	122.71	--	--	3859.77	135.31
MW-4	9/18/17	3982.48	122.57	--	--	3859.91	137.58
MW-4	11/29/17	3982.48	122.63	--	--	3859.85	136.05
MW-4	1/24/18	3982.48	122.50	--	--	3859.98	--
MW-4	2/19/18	3982.48	122.49	--	--	3859.99	135.24
MW-4	5/23/18	3982.48	122.71	--	--	3859.77	135.39
MW-4	8/22/18	3982.48	122.88	--	--	3859.60	135.41
MW-4	11/14/18	3982.48	122.88	--	--	3859.60	--
MW-4	2/25/19	3982.48	123.04	--	--	3859.44	135.41
MW-4	5/29/19	3982.48	123.24	--	--	3859.24	--
MW-4	7/29/19	3982.48	123.30	--	--	3859.18	--
MW-4	10/16/19	3982.48	123.36	--	--	3859.12	--
MW-4	2/24/20	3982.48	123.45	--	--	3859.03	135.59
MW-4	4/29/20	3982.48	123.70	--	--	3858.78	--
MW-4	5/26/20	3982.48	123.50	--	--	3858.98	--
MW-4	6/16/20	3982.48	122.23	--	--	3860.25	--
MW-4	7/30/20	3982.48	123.53	--	--	3858.95	--
MW-4	8/26/20	3982.48	122.24	--	--	3860.24	--
MW-4	9/17/20	3982.48	123.57	--	--	3858.91	135.65
MW-4	10/21/20	3982.48	123.57	--	--	3858.91	--
MW-4	11/4/20	3982.48	123.60	--	--	3858.88	--
MW-4	12/9/20	3982.48	123.60	--	--	3858.88	--
MW-4	1/28/21	3982.48	123.69	--	--	3858.79	--
MW-4	2/25/21	3982.48	123.71	--	--	3858.77	135.71
MW-4	3/24/21	3982.48	123.70	--	--	3858.78	--
MW-4	4/30/21	3982.48	123.70	--	--	3858.78	--
MW-4	5/11/21	3982.48	123.77	--	--	3858.71	--
MW-4	6/28/21	3982.48	123.71	--	--	3858.77	--
MW-4	7/27/21	3982.48	123.64	--	--	3858.84	--
MW-4	8/24/21	3982.48	123.64	--	--	3858.84	--
MW-4	9/30/21	3982.48	123.77	--	--	3858.71	135.71
MW-4	10/28/21	3982.48	123.81	--	--	3858.67	135.71
MW-4	11/16/21	3982.48	123.82	--	--	3858.66	135.71
MW-4	2/1/22	3982.48	124.12	--	--	3858.36	135.71
MW-4	2/22/22	3982.48	124.13	--	--	3858.35	135.60
MW-4	3/16/22	3982.48	124.25	--	--	3858.23	135.60
MW-4	4/11/22	3982.48	124.39	--	--	3858.09	135.60
MW-4	5/24/22	3982.48	124.43	--	--	3858.05	135.60
MW-4	6/15/22	3982.48	124.54	--	--	3857.94	135.60
MW-4	7/28/22	3982.48	124.59	--	--	3857.89	135.60
MW-4	8/24/22	3982.48	124.74	--	--	3857.74	135.60
MW-4	11/2/22	3982.48	124.89	--	--	3857.59	135.60
MW-5	3/15/17	3981.45	121.85	--	--	3859.60	133.50
MW-5	6/20/17	3981.45	121.70	--	--	3859.75	136.34
MW-5	9/18/17	3981.45	121.53	--	--	3859.92	137.57
MW-5	11/29/17	3981.45	121.60	--	--	3859.85	136.36
MW-5	1/24/18	3981.45	121.50	--	--	3859.95	--
MW-5	2/19/18	3981.45	121.45	--	--	3860.00	136.33
MW-5	5/23/18	3981.45	121.68	--	--	3859.77	136.48

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Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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-5	6/8/18	3981.45	--	--	--	--	--
MW-5	7/13/18	3981.45	--	--	--	--	--
MW-5	8/10/18	3981.45	--	--	--	--	--
MW-5	8/22/18	3981.45	121.87	--	--	3859.58	136.37
MW-5	10/19/18	3981.45	--	--	--	--	--
MW-5	11/14/18	3981.45	121.86	--	--	3859.59	--
MW-5	2/25/19	3981.45	122.03	--	--	3859.42	136.37
MW-5	5/29/19	3981.45	122.21	--	--	3859.24	--
MW-5	7/29/19	3981.45	122.29	--	--	3859.16	--
MW-5	10/16/19	3981.45	122.35	--	--	3859.10	--
MW-5	2/24/20	3981.45	122.44	--	--	3859.01	136.32
MW-5	4/29/20	3981.45	122.61	--	--	3858.84	--
MW-5	5/26/20	3981.45	122.50	--	--	3858.95	--
MW-5	6/16/20	3981.45	122.47	--	--	3858.98	--
MW-5	7/30/20	3981.45	122.48	--	--	3858.97	--
MW-5	8/26/20	3981.45	122.50	--	--	3858.95	--
MW-5	9/17/20	3981.45	122.55	--	--	3858.90	136.29
MW-5	10/21/20	3981.45	122.55	--	--	3858.90	--
MW-5	11/4/20	3981.45	122.63	--	--	3858.82	--
MW-5	12/9/20	3981.45	122.58	--	--	3858.87	--
MW-5	1/28/21	3981.45	122.66	--	--	3858.79	--
MW-5	2/25/21	3981.45	122.75	--	--	3858.70	136.42
MW-5	3/24/21	3981.45	122.69	--	--	3858.76	--
MW-5	4/30/21	3981.45	122.72	--	--	3858.73	--
MW-5	5/11/21	3981.45	127.75	--	--	3853.70	--
MW-5	6/28/21	3981.45	122.69	--	--	3858.76	--
MW-5	7/27/21	3981.45	122.60	--	--	3858.85	--
MW-5	8/24/21	3981.45	122.61	--	--	3858.84	--
MW-5	9/30/21	3981.45	122.74	--	--	3858.71	136.42
MW-5	10/28/21	3981.45	122.79	--	--	3858.66	136.42
MW-5	11/16/21	3981.45	122.80	--	--	3858.65	136.42
MW-5	2/1/22	3981.45	123.11	--	--	3858.34	136.42
MW-5	2/22/22	3981.45	123.22	--	--	3858.23	136.31
MW-5	3/16/22	3981.45	123.25	--	--	3858.20	136.31
MW-5	4/11/22	3981.45	123.37	--	--	3858.08	136.31
MW-5	5/24/22	3981.45	123.46	--	--	3857.99	136.31
MW-5	6/15/22	3981.45	123.53	--	--	3857.92	136.31
MW-5	7/28/22	3981.45	123.58	--	--	3857.87	136.31
MW-5	8/24/22	3981.45	123.73	--	--	3857.72	136.31
MW-5	11/2/22	3981.45	123.80	--	--	3857.65	136.31
MW-6	3/15/17	3982.27	122.76	--	--	3859.51	133.75
MW-6	6/20/17	3982.27	122.60	--	--	3859.67	140.50
MW-6	9/18/17	3982.27	122.44	--	--	3859.83	141.21
MW-6	11/29/17	3982.27	122.49	--	--	3859.78	140.38
MW-6	1/24/18	3982.27	122.40	--	--	3859.87	--
MW-6	2/19/18	3982.27	122.38	--	--	3859.89	140.32
MW-6	3/9/18	3982.27	--	--	--	--	--
MW-6	4/13/18	3982.27	--	--	--	--	--
MW-6	5/11/18	3982.27	--	--	--	--	--
MW-6	5/23/18	3982.27	122.61	--	--	3859.66	140.31
MW-6	6/8/18	3982.27	--	--	--	--	--
MW-6	7/13/18	3982.27	--	--	--	--	--
MW-6	8/10/18	3982.27	--	--	--	--	--
MW-6	8/22/18	3982.27	122.81	--	--	3859.46	140.19
MW-6	9/14/18	3982.27	--	--	--	--	--
MW-6	10/19/18	3982.27	--	--	--	--	--
MW-6	11/9/18	3982.27	--	--	--	--	--
MW-6	11/14/18	3982.27	122.77	--	--	3859.50	--
MW-6	12/14/18	3982.27	--	--	--	--	--
MW-6	2/8/19	3982.27	123.07	--	--	3859.20	--
MW-6	2/25/19	3982.27	122.95	--	--	3859.32	140.19
MW-6	5/29/19	3982.27	123.11	--	--	3859.16	--
MW-6	7/29/19	3982.27	123.21	--	--	3859.06	--
MW-6	10/16/19	3982.27	123.26	--	--	3859.01	--
MW-6	11/4/19	3982.27	--	--	--	--	--
MW-6	12/9/19	3982.27	--	--	--	--	--
MW-6	1/10/20	3982.27	--	--	--	--	--
MW-6	2/19/20	3982.27	--	--	--	--	--
MW-6	2/24/20	3982.27	123.40	--	--	3858.87	139.87
MW-6	3/13/20	3982.27	--	--	--	--	--
MW-6	4/29/20	3982.27	123.51	--	--	3858.76	--
MW-6	5/26/20	3982.27	123.41	--	--	3858.86	--
MW-6	6/16/20	3982.27	123.41	--	--	3858.86	--

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Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
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NMOCD 1RP-2637

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	7/30/20	3982.27	123.41	--	--	3858.86	--
MW-6	8/26/20	3982.27	123.44	--	--	3858.83	--
MW-6	9/17/20	3982.27	123.44	--	--	3858.83	139.72
MW-6	10/21/20	3982.27	123.46	--	--	3858.81	--
MW-6	11/4/20	3982.27	123.50	--	--	3858.77	--
MW-6	12/9/20	3982.27	123.50	--	--	3858.77	--
MW-6	1/28/21	3982.27	123.56	--	--	3858.71	--
MW-6	2/25/21	3982.27	123.62	--	--	3858.65	139.70
MW-6	3/24/21	3982.27	123.60	--	--	3858.67	--
MW-6	4/30/21	3982.27	123.63	--	--	3858.64	--
MW-6	5/11/21	3982.27	123.66	--	--	3858.61	--
MW-6	6/28/21	3982.27	123.62	--	--	3858.65	--
MW-6	7/27/21	3982.27	123.55	--	--	3858.72	--
MW-6	8/24/21	3982.27	123.56	--	--	3858.71	--
MW-6	9/30/21	3982.27	123.65	--	--	3858.62	139.70
MW-6	10/28/21	3982.27	123.70	--	--	3858.57	139.70
MW-6	11/16/21	3982.27	123.71	--	--	3858.56	139.70
MW-6	2/1/22	3982.27	124.01	--	--	3858.26	139.70
MW-6	2/22/22	3982.27	124.12	--	--	3858.15	139.61
MW-6	3/16/22	3982.27	124.16	--	--	3858.11	139.61
MW-6	4/11/22	3982.27	124.28	--	--	3857.99	139.61
MW-6	5/24/22	3982.27	124.38	--	--	3857.89	139.61
MW-6	6/15/22	3982.27	124.47	--	--	3857.80	139.61
MW-6	7/28/22	3982.27	124.52	--	--	3857.75	139.61
MW-6	8/24/22	3982.27	124.67	--	--	3857.60	139.61
MW-6	11/2/22	3982.27	124.82	--	--	3857.45	139.61
MW-7	3/15/17	3981.71	126.86	121.42	5.44	3859.26	133.45
MW-7	6/20/17	3981.71	126.57	121.28	5.29	3859.42	133.45
MW-7	9/18/17	3981.71	127.44	120.47	6.97	3859.92	133.45
MW-7	11/29/17	3981.71	127.63	120.95	6.68	3859.49	133.45
MW-7	1/24/18	3981.71	127.55	120.84	6.71	3859.60	--
MW-7	2/19/18	3981.71	127.66	120.82	6.84	3859.59	--
MW-7	3/9/18	3981.71	--	--	--	--	--
MW-7	4/13/18	3981.71	--	--	--	--	--
MW-7	5/11/18	3981.71	--	--	--	--	--
MW-7	5/23/18	3981.71	125.05	121.53	3.52	3859.51	--
MW-7	6/8/18	3981.71	--	--	--	--	--
MW-7	7/11/18	3981.71	--	--	--	--	--
MW-7	7/13/18	3981.71	122.46	122.16	0.30	3859.49	--
MW-7	8/22/18	3981.71	125.87	121.61	4.26	3859.29	--
MW-7	9/14/18	3981.71	--	--	--	--	--
MW-7	10/19/18	3981.71	126.58	121.58	5.00	3859.18	--
MW-7	11/9/18	3981.71	125.74	121.70	4.04	3859.24	--
MW-7	11/14/18	3981.71	124.13	121.93	2.20	3859.36	--
MW-7	12/14/18	3981.71	126.34	121.65	4.69	3859.17	--
MW-7	1/11/19	3981.71	126.55	121.68	4.87	3859.10	--
MW-7	2/8/19	3981.71	126.26	121.75	4.51	3859.10	--
MW-7	2/25/19	3981.71	126.31	121.65	4.66	3859.17	--
MW-7	3/8/19	3981.71	127.15	121.65	5.50	3859.02	--
MW-7	5/21/19	3981.71	128.14	121.65	6.49	3858.83	--
MW-7	5/29/19	3981.71	126.52	121.93	4.59	3858.91	--
MW-7	6/13/19	3981.71	127.41	121.75	5.66	3858.88	--
MW-7	7/11/19	3981.71	127.59	121.78	5.81	3858.83	--
MW-7	7/29/19	3981.71	127.18	121.88	5.30	3858.82	--
MW-7	8/9/19	3981.71	126.36	122.09	4.27	3859.62	--
MW-7	9/13/19	3981.71	127.73	121.86	5.87	3859.17	--
MW-7	10/16/19	3981.71	127.76	121.85	5.91	3858.74	--
MW-7	11/4/19	3981.71	128.30	121.90	6.40	3858.59	--
MW-7	12/9/19	3981.71	123.44	122.80	0.64	3858.82	--
MW-7	1/10/20	3981.71	127.08	122.18	4.90	3858.86	--
MW-7	2/19/20	3981.71	127.79	121.99	5.80	3858.93	--
MW-7	2/24/20	3981.71	125.47	122.38	3.09	3858.91	--
MW-7	3/13/20	3981.71	122.86	122.86	0.00	3858.85	--
MW-7	4/29/20	3981.71	127.80	122.15	5.65	3858.79	--
MW-7	5/26/20	3981.71	127.53	122.07	5.46	3858.89	--
MW-7	6/11/20	3981.71	128.02	122.01	6.01	3858.88	--
MW-7	6/12/20	3981.71	122.85	--	--	3858.86	--
MW-7	6/16/20	3981.71	123.11	122.81	0.30	3858.86	--
MW-7	7/30/20	3981.71	127.77	122.00	5.77	3858.92	--
MW-7	8/26/20	3981.71	127.84	122.01	5.83	3858.59	--
MW-7	9/15/20	3981.71	127.09	122.06	5.03	3858.69	--
MW-7	9/15/20	3981.71	122.78	--	--	3858.93	--
MW-7	9/17/20	3981.71	122.92	122.89	0.03	3858.81	--

Table 1
Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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-7	10/21/20	3981.71	127.30	122.17	5.13	3858.57	--
MW-7	11/4/20	3981.71	126.64	122.35	4.29	3858.54	--
MW-7	12/9/20	3981.71	128.37	122.07	6.30	3858.44	--
MW-7	1/28/21	3981.71	128.70	122.12	6.58	3858.34	--
MW-7	2/25/21	3981.71	128.58	122.22	6.36	3858.28	133.11
MW-7	3/24/21	3981.71	127.19	122.33	4.86	3858.46	--
MW-7	4/30/21	3981.71	128.65	122.11	6.54	3858.36	--
MW-7	5/11/21	3981.71	128.84	122.13	6.71	3858.31	--
MW-7	6/28/21	3981.71	128.90	122.04	6.86	3858.37	--
MW-7	7/27/21	3981.71	128.67	121.99	6.68	3858.45	--
MW-7	8/24/21	3981.71	128.96	121.95	7.01	3858.43	--
MW-7	9/30/21	3981.71	127.92	122.30	5.62	3858.34	133.11
MW-7	10/28/21	3981.71	127.97	122.35	5.62	3858.29	133.11
MW-7	11/16/21	3981.71	129.15	122.16	6.99	3858.22	133.11
MW-7	2/1/22	3981.71	129.08	122.55	6.53	3857.92	133.11
MW-7	2/22/22	3981.71	129.05	122.67	6.38	3857.83	133.02
MW-7	3/16/22	3981.71	129.33	122.71	6.62	3857.74	133.02
MW-7	4/11/22	3981.71	126.96	123.25	3.71	3857.76	133.02
MW-7	5/24/22	3981.71	126.35	123.54	2.81	3857.64	133.02
MW-7	6/15/22	3981.71	124.99	123.76	1.23	3857.72	133.02
MW-7	7/28/22	3981.71	124.40	123.97	0.43	3857.66	133.02
MW-7	8/24/22	3981.71	124.72	124.10	0.62	3857.49	133.02
MW-7	10/6/22	3981.71	124.39	124.25	0.14	3857.43	133.02
MW-7	10/6/22	3981.71	124.98	--	0.00	3856.73	133.02
MW-7	11/2/22	3981.71	124.21	124.18	0.03	3857.52	133.02
MW-7	11/2/22	3981.71	125.06	--	0.00	3856.65	133.02
MW-7	11/30/22	3981.71	124.62	124.51	0.11	3857.18	133.02
MW-7	11/30/22	3981.71	124.57	124.56	0.01	3857.15	133.02
MW-8	11/29/17	3981.20	121.46	--	--	3859.74	136.79
MW-8	1/24/18	3981.20	121.34	--	--	3859.86	--
MW-8	2/19/18	3981.20	121.34	--	--	3859.86	136.63
MW-8	3/9/18	3981.20	--	--	--	--	--
MW-8	4/13/18	3981.20	--	--	--	--	--
MW-8	5/11/18	3981.20	--	--	--	--	--
MW-8	5/23/18	3981.20	121.61	--	--	3859.59	136.80
MW-8	6/8/18	3981.20	--	--	--	--	--
MW-8	7/13/18	3981.20	--	--	--	--	--
MW-8	8/10/18	3981.20	--	--	--	--	--
MW-8	8/22/18	3981.20	121.77	--	--	3859.43	136.78
MW-8	9/14/18	3981.20	--	--	--	--	--
MW-8	11/9/18	3981.20	--	--	--	--	--
MW-8	11/14/18	3981.20	121.78	--	--	3859.42	--
MW-8	12/14/18	3981.20	--	--	--	--	--
MW-8	1/11/19	3981.20	--	--	--	--	--
MW-8	2/8/19	3981.20	122.02	--	--	3859.18	--
MW-8	2/25/19	3981.20	121.94	--	--	3859.26	136.78
MW-8	3/8/19	3981.20	122.00	--	--	3859.20	--
MW-8	5/29/19	3981.20	122.10	--	--	3859.10	--
MW-8	6/13/19	3981.20	122.12	--	--	3859.08	--
MW-8	6/13/19	3981.20	--	--	--	--	--
MW-8	7/29/19	3981.20	122.20	--	--	3859.00	--
MW-8	9/13/19	3981.20	--	--	--	--	--
MW-8	10/16/19	3981.20	122.24	--	--	3858.96	--
MW-8	11/4/19	3981.20	--	--	--	--	--
MW-8	12/9/19	3981.20	--	--	--	--	--
MW-8	1/10/20	3981.20	--	--	--	--	--
MW-8	2/19/20	3981.20	--	--	--	--	--
MW-8	2/24/20	3981.20	122.34	--	--	3858.86	136.44
MW-8	3/13/20	3981.20	--	--	--	--	--
MW-8	4/29/20	3981.20	122.49	--	--	3858.71	--
MW-8	5/26/20	3981.20	122.39	--	--	3858.81	--
MW-8	6/16/20	3981.20	122.40	--	--	3858.80	--
MW-8	7/30/20	3981.20	122.39	--	--	3858.81	--
MW-8	8/26/20	3981.20	122.42	--	--	3858.78	--
MW-8	9/15/20	3981.20	122.42	--	--	3858.78	--
MW-8	9/15/20	3981.20	122.47	--	--	3858.73	--
MW-8	9/17/20	3981.20	122.40	--	--	3858.80	136.40
MW-8	10/21/20	3981.20	122.45	--	--	3858.75	--
MW-8	11/4/20	3981.20	122.51	--	--	3858.69	--
MW-8	12/9/20	3981.20	122.51	--	--	3858.69	--
MW-8	1/28/21	3981.20	122.57	--	--	3858.63	--
MW-8	2/25/21	3981.20	122.60	--	--	3858.60	136.44
MW-8	3/24/21	3981.20	122.58	--	--	3858.62	--

Table 1
Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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	4/30/21	3981.20	122.58	--	--	3858.62	--
MW-8	5/11/21	3981.20	122.63	--	--	3858.57	--
MW-8	6/28/21	3981.20	122.55	--	--	3858.65	--
MW-8	7/27/21	3981.20	122.50	--	--	3858.70	--
MW-8	8/24/21	3981.20	122.50	--	--	3858.70	--
MW-8	9/30/21	3981.20	122.66	--	--	3858.54	136.44
MW-8	10/28/21	3981.20	122.71	--	--	3858.49	136.44
MW-8	11/16/21	3981.20	122.73	--	--	3858.47	136.44
MW-8	2/1/22	3981.20	123.08	--	--	3858.12	136.44
MW-8	2/22/22	3981.20	123.14	--	--	3858.06	136.21
MW-8	3/16/22	3981.20	123.22	--	--	3857.98	136.21
MW-8	4/11/22	3981.20	123.28	--	--	3857.92	136.21
MW-8	5/24/22	3981.20	123.50	--	--	3857.70	136.21
MW-8	6/15/22	3981.20	123.51	--	--	3857.69	136.21
MW-8	7/28/22	3981.20	123.57	--	--	3857.63	136.21
MW-8	8/24/22	3981.20	123.72	--	--	3857.48	136.21
MW-8	11/2/22	3981.20	123.87	--	--	3857.33	136.21
MW-9	11/29/17	3980.44	120.65	--	--	3859.79	140.86
MW-9	1/24/18	3980.44	120.55	--	--	3859.89	--
MW-9	2/19/18	3980.44	120.52	--	--	3859.92	140.76
MW-9	5/23/18	3980.44	120.78	--	--	3859.66	140.83
MW-9	8/22/18	3980.44	120.98	--	--	3859.46	140.61
MW-9	11/14/18	3980.44	120.96	--	--	3859.48	--
MW-9	2/25/19	3980.44	121.14	--	--	3859.30	140.61
MW-9	5/29/19	3980.44	121.34	--	--	3859.10	--
MW-9	6/13/19	3980.44	121.30	--	--	3859.14	--
MW-9	6/13/19	3980.44	--	--	--	--	--
MW-9	7/29/19	3980.44	121.39	--	--	3859.05	--
MW-9	10/16/19	3980.44	121.46	--	--	3858.98	--
MW-9	11/4/19	3980.44	--	--	--	--	--
MW-9	12/9/19	3980.44	--	--	--	--	--
MW-9	1/10/20	3980.44	--	--	--	--	--
MW-9	2/19/20	3980.44	--	--	--	--	--
MW-9	2/24/20	3980.44	121.56	--	--	3858.88	140.78
MW-9	3/13/20	3980.44	--	--	--	--	--
MW-9	4/29/20	3980.44	121.69	--	--	3858.75	--
MW-9	5/26/20	3980.44	121.59	--	--	3858.85	--
MW-9	6/16/20	3980.44	121.57	--	--	3858.87	--
MW-9	7/30/20	3980.44	121.55	--	--	3858.89	--
MW-9	8/26/20	3980.44	121.60	--	--	3858.84	--
MW-9	9/17/20	3980.44	121.64	--	--	3858.80	140.51
MW-9	10/21/20	3980.44	121.63	--	--	3858.81	--
MW-9	11/4/20	3980.44	121.70	--	--	3858.74	--
MW-9	12/9/20	3980.44	121.66	--	--	3858.78	--
MW-9	1/28/21	3980.44	121.77	--	--	3858.67	--
MW-9	2/25/21	3980.44	121.88	--	--	3858.56	140.68
MW-9	3/24/21	3980.44	121.74	--	--	3858.70	--
MW-9	4/30/21	3980.44	121.80	--	--	3858.64	--
MW-9	5/11/21	3980.44	121.81	--	--	3858.63	--
MW-9	6/28/21	3980.06	121.73	--	--	3858.33	--
MW-9	7/27/21	3980.06	122.66	--	--	3857.40	--
MW-9	8/24/21	3980.06	121.66	--	--	3858.40	--
MW-9	9/30/21	3980.06	121.85	--	--	3858.21	140.68
MW-9	10/28/21	3980.06	121.90	--	--	3858.16	140.68
MW-9	11/16/21	3980.06	121.92	--	--	3858.14	140.68
MW-9	2/1/22	3980.06	122.27	--	--	3857.79	140.68
MW-9	2/22/22	3980.06	122.41	--	--	3857.65	140.54
MW-9	3/16/22	3980.06	122.41	--	--	3857.65	140.54
MW-9	4/11/22	3980.06	122.50	--	--	3857.56	140.54
MW-9	5/24/22	3980.06	122.68	--	--	3857.38	140.54
MW-9	6/15/22	3980.06	122.78	--	--	3857.28	140.54
MW-9	7/28/22	3980.06	122.76	--	--	3857.30	140.54
MW-9	8/24/22	3980.06	122.94	--	--	3857.12	140.54
MW-9	11/2/22	3980.06	123.08	--	--	3856.98	140.54
MW-10	11/29/17	3980.06	120.37	--	--	3859.69	142.13
MW-10	1/24/18	3980.06	120.24	--	--	3859.82	--
MW-10	2/19/18	3980.06	120.26	--	--	3859.80	142.11
MW-10	5/23/18	3980.06	120.50	--	--	3859.56	142.19
MW-10	8/22/18	3980.06	120.68	--	--	3859.38	141.96
MW-10	11/14/18	3980.06	120.67	--	--	3859.39	--
MW-10	2/25/19	3980.06	120.87	--	--	3859.19	141.96
MW-10	5/29/19	3980.06	121.03	--	--	3859.03	--
MW-10	6/13/19	3980.06	121.03	--	--	3859.03	--

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NMOCD 1RP-2637

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-10	7/11/19	3980.06	--	--	--	--	--
MW-10	7/29/19	3980.06	121.11	--	--	3858.95	--
MW-10	10/16/19	3980.06	121.16	--	--	3858.90	--
MW-10	11/4/19	3980.06	--	--	--	--	--
MW-10	12/9/19	3980.06	--	--	--	--	--
MW-10	1/10/20	3980.06	--	--	--	--	--
MW-10	2/19/20	3980.06	--	--	--	--	--
MW-10	2/24/20	3980.06	121.26	--	--	3858.80	141.52
MW-10	3/13/20	3980.06	--	--	--	--	--
MW-10	4/29/20	3980.06	121.41	--	--	3858.65	--
MW-10	5/26/20	3980.06	121.31	--	--	3858.75	--
MW-10	6/16/20	3980.06	121.29	--	--	3858.77	--
MW-10	7/30/20	3980.06	121.28	--	--	3858.78	--
MW-10	8/26/20	3980.06	121.32	--	--	3858.74	--
MW-10	9/17/20	3980.06	121.34	--	--	3858.72	141.48
MW-10	10/21/20	3980.06	121.37	--	--	3858.69	--
MW-10	11/4/20	3980.06	121.42	--	--	3858.64	--
MW-10	12/9/20	3980.06	121.42	--	--	3858.64	--
MW-10	1/28/21	3980.06	121.49	--	--	3858.57	--
MW-10	2/25/21	3980.06	121.48	--	--	3858.58	141.30
MW-10	3/24/21	3980.06	121.46	--	--	3858.60	--
MW-10	4/30/21	3980.06	121.50	--	--	3858.56	--
MW-10	5/11/21	3980.06	121.54	--	--	3858.52	--
MW-10	6/28/21	3980.06	121.46	--	--	3858.60	--
MW-10	7/27/21	3980.06	121.37	--	--	3858.69	--
MW-10	8/24/21	3980.06	121.39	--	--	3858.67	--
MW-10	9/30/21	3980.06	121.56	--	--	3858.50	141.30
MW-10	10/28/21	3980.06	121.63	--	--	3858.43	141.30
MW-10	11/16/21	3980.06	121.64	--	--	3858.42	141.30
MW-10	2/1/22	3980.06	122.00	--	--	3858.06	141.30
MW-10	2/22/22	3980.06	122.10	--	--	3857.96	141.25
MW-10	3/16/22	3980.06	122.13	--	--	3857.93	141.25
MW-10	4/11/22	3980.06	122.22	--	--	3857.84	141.25
MW-10	5/24/22	3980.06	122.42	--	--	3857.64	141.25
MW-10	6/15/22	3980.06	122.48	--	--	3857.58	141.25
MW-10	7/28/22	3980.06	122.51	--	--	3857.55	141.25
MW-10	8/24/22	3980.06	122.67	--	--	3857.39	141.25
MW-10	11/2/22	3980.06	122.46	--	--	3857.60	141.25
MW-11	11/29/17	3981.92	122.10	--	--	3859.82	143.19
MW-11	1/24/18	3981.92	122.03	--	--	3859.89	--
MW-11	2/19/18	3981.92	122.00	--	--	3859.92	142.10
MW-11	3/9/18	3981.92	--	--	--	--	--
MW-11	4/13/18	3981.92	--	--	--	--	--
MW-11	5/11/18	3981.92	--	--	--	--	--
MW-11	5/23/18	3981.92	122.25	--	--	3859.67	141.92
MW-11	6/8/18	3981.92	--	--	--	--	--
MW-11	7/13/18	3981.92	--	--	--	--	--
MW-11	8/10/18	3981.92	--	--	--	--	--
MW-11	8/22/18	3981.92	122.43	--	--	3859.49	141.86
MW-11	9/14/18	3981.92	--	--	--	--	--
MW-11	10/19/18	3981.92	--	--	--	--	--
MW-11	11/9/18	3981.92	--	--	--	--	--
MW-11	11/14/18	3981.92	122.41	--	--	3859.51	--
MW-11	12/14/18	3981.92	--	--	--	--	--
MW-11	1/11/19	3981.92	--	--	--	--	--
MW-11	2/8/19	3981.92	122.68	--	--	3859.24	--
MW-11	2/25/19	3981.92	122.61	--	--	3859.31	141.86
MW-11	5/29/19	3981.92	122.74	--	--	3859.18	--
MW-11	6/13/19	3981.92	122.76	--	--	3859.16	--
MW-11	7/11/19	3981.92	--	--	--	--	--
MW-11	7/29/19	3981.92	122.84	--	--	3859.08	--
MW-11	9/13/19	3981.92	--	--	--	--	--
MW-11	10/16/19	3981.92	122.89	--	--	3859.03	--
MW-11	2/24/20	3981.92	123.00	--	--	3858.92	142.94
MW-11	4/29/20	3981.92	123.16	--	--	3858.76	--
MW-11	5/26/20	3981.92	123.05	--	--	3858.87	--
MW-11	6/16/20	3981.92	123.05	--	--	3858.87	--
MW-11	7/30/20	3981.92	123.05	--	--	3858.87	--
MW-11	8/26/20	3981.92	123.08	--	--	3858.84	--
MW-11	9/17/20	3981.92	123.07	--	--	3858.85	141.79
MW-11	10/21/20	3981.92	123.11	--	--	3858.81	--
MW-11	11/4/20	3981.92	123.18	--	--	3858.74	--

Table 1
Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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	12/9/20	3981.92	123.19	--	--	3858.73	--
MW-11	1/28/21	3981.92	123.23	--	--	3858.69	--
MW-11	2/25/21	3981.92	123.25	--	--	3858.67	141.70
MW-11	3/24/21	3981.92	123.23	--	--	3858.69	--
MW-11	4/30/21	3981.92	123.24	--	--	3858.68	--
MW-11	5/11/21	3981.92	123.31	--	--	3858.61	--
MW-11	6/28/21	3981.92	123.24	--	--	3858.68	--
MW-11	7/27/21	3981.92	123.17	--	--	3858.75	--
MW-11	8/24/21	3981.92	123.18	--	--	3858.74	--
MW-11	9/30/21	3981.92	123.30	--	--	3858.62	141.70
MW-11	10/28/21	3981.92	123.37	--	--	3858.55	141.70
MW-11	11/16/21	3981.92	123.36	--	--	3858.56	141.70
MW-11	2/1/22	3981.92	123.71	--	--	3858.21	141.70
MW-11	2/22/22	3981.92	123.79	--	--	3858.13	141.69
MW-11	3/16/22	3981.92	123.81	--	--	3858.11	141.69
MW-11	4/11/22	3981.92	123.88	--	--	3858.04	141.69
MW-11	5/24/22	3981.92	124.10	--	--	3857.82	141.69
MW-11	6/15/22	3981.92	124.12	--	--	3857.80	141.69
MW-11	5/24/22	3981.92	124.16	--	--	3857.76	141.69
MW-11	8/24/22	3981.92	124.31	--	--	3857.61	141.69
MW-11	11/2/22	3981.92	124.46	--	--	3857.46	141.69
MW-12	11/29/17	3982.15	122.35	--	--	3859.80	141.92
MW-12	1/24/17	3982.15	122.25	--	--	3859.90	--
MW-12	2/19/18	3982.15	122.23	--	--	3859.92	143.32
MW-12	3/9/18	3982.15	--	--	--	--	--
MW-12	4/13/18	3982.15	--	--	--	--	--
MW-12	5/11/18	3982.15	--	--	--	--	--
MW-12	5/23/18	3982.15	122.48	--	--	3859.67	142.25
MW-12	6/8/18	3982.15	--	--	--	--	--
MW-12	7/13/18	3982.15	--	--	--	--	--
MW-12	8/10/18	3982.15	--	--	--	--	--
MW-12	8/22/18	3982.15	122.67	--	--	3859.48	142.17
MW-12	9/14/18	3982.15	--	--	--	--	--
MW-12	10/19/18	3982.15	--	--	--	--	--
MW-12	11/9/18	3982.15	--	--	--	--	--
MW-12	11/14/18	3982.15	122.65	--	--	3859.50	--
MW-12	12/14/18	3982.15	--	--	--	--	--
MW-12	1/11/19	3982.15	--	--	--	--	--
MW-12	2/8/19	3982.15	122.94	--	--	3859.21	--
MW-12	2/25/19	3982.15	122.86	--	--	3859.29	142.17
MW-12	3/8/19	3982.15	122.88	--	--	3859.27	--
MW-12	5/29/19	3982.15	123.00	--	--	3859.15	--
MW-12	6/13/19	3982.15	123.00	--	--	3859.15	--
MW-12	7/11/19	3982.15	--	--	--	--	--
MW-12	7/29/19	3982.15	123.10	123.06	0.04	3859.08	--
MW-12	9/13/19	3982.15	--	--	--	--	--
MW-12	10/16/19	3982.15	123.22	123.12	0.10	3859.01	--
MW-12	11/4/19	3982.15	123.26	123.23	0.03	3858.91	--
MW-12	12/9/19	3982.15	--	--	--	--	--
MW-12	1/10/20	3982.15	123.48	123.25	0.23	3858.86	--
MW-12	2/19/20	3982.15	123.54	123.20	0.34	3858.89	--
MW-12	2/24/20	3982.15	123.38	123.20	0.18	3858.92	--
MW-12	3/13/20	3982.15	123.50	123.24	0.26	3858.86	--
MW-12	4/29/20	3982.15	123.76	123.34	0.42	3858.73	--
MW-12	5/26/20	3982.15	123.56	123.23	0.33	3858.86	--
MW-12	6/16/20	3982.15	123.65	123.22	0.43	3858.85	--
MW-12	7/30/20	3982.15	123.70	123.23	0.47	3858.83	--
MW-12	8/26/20	3982.15	123.66	123.25	0.41	3858.82	--
MW-12	9/15/20	3982.15	123.41	123.25	0.16	3858.87	--
MW-12	9/15/20	3982.15	123.71	123.32	0.39	3858.76	--
MW-12	9/17/20	3982.15	123.57	123.27	0.30	3858.82	--
MW-12	10/21/20	3982.15	123.80	123.28	0.52	3858.77	--
MW-12	11/4/20	3982.15	123.74	123.35	0.39	3858.73	--
MW-12	12/9/20	3982.15	123.91	123.34	0.57	3858.70	--
MW-12	1/28/21	3982.15	123.90	123.40	0.50	3858.66	--
MW-12	2/25/21	3982.15	123.88	123.38	0.50	3858.68	142.01
MW-12	3/24/21	3982.15	123.98	123.37	0.61	3858.66	--
MW-12	4/30/21	3982.15	124.19	123.37	0.82	3858.62	--
MW-12	5/11/21	3982.15	124.28	123.42	0.86	3858.57	--
MW-12	6/28/21	3982.15	124.36	123.31	1.05	3858.64	--
MW-12	7/27/21	3982.15	124.38	123.21	1.17	3858.72	--
MW-12	8/24/21	3982.15	124.53	123.21	1.32	3858.69	--
MW-12	9/30/21	3982.15	124.35	123.43	0.92	3858.55	142.01

Table 1
Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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	10/28/21	3982.15	124.40	123.48	0.92	3858.50	142.01
MW-12	11/16/21	3982.15	124.61	123.40	1.21	3858.52	142.01
MW-12	2/1/22	3982.15	124.53	123.80	0.73	3858.21	142.01
MW-12	2/22/22	3982.15	124.70	123.93	0.77	3858.07	142.18
MW-12	3/16/22	3982.15	124.75	123.96	0.79	3858.04	142.18
MW-12	4/11/22	3982.15	124.90	124.08	0.82	3857.91	142.18
MW-12	5/24/22	3982.15	125.10	124.22	0.88	3857.76	142.18
MW-12	6/15/22	3982.15	124.87	124.25	0.62	3857.78	142.18
MW-12	7/25/22	3982.15	124.95	124.33	0.62	3857.70	142.18
MW-12	8/24/22	3982.15	125.13	124.47	0.66	3857.55	142.18
MW-12	10/6/22	3982.15	125.23	124.25	0.98	3857.71	142.18
MW-12	10/6/22	3982.15	124.69	124.68	0.01	3857.47	142.18
MW-12	11/2/22	3982.15	124.79	124.66	0.13	3857.47	142.18
MW-12	11/2/22	3982.15	124.78	124.76	0.02	3857.39	142.18
MW-12	11/30/22	3982.15	124.86	124.77	0.09	3857.36	142.18
MW-12	11/30/22	3982.15	124.74	124.73	0.01	3857.42	142.18
MW-13	11/29/17	3980.82	120.97	--	--	3859.85	141.79
MW-13	1/24/18	3980.82	120.89	--	--	3859.93	--
MW-13	2/19/18	3980.82	120.81	--	--	3860.01	141.93
MW-13	5/23/18	3980.82	121.07	--	--	3859.75	141.66
MW-13	8/22/18	3980.82	121.27	--	--	3859.55	141.63
MW-13	11/14/18	3980.82	121.26	--	--	3859.56	--
MW-13	2/25/19	3980.82	121.44	--	--	3859.38	141.63
MW-13	5/29/19	3980.82	121.62	--	--	3859.20	--
MW-13	7/29/19	3980.82	121.69	--	--	3859.13	--
MW-13	10/16/19	3980.82	121.74	--	--	3859.08	--
MW-13	2/24/20	3980.82	121.81	--	--	3859.01	141.36
MW-13	4/29/20	3980.82	122.00	--	--	3858.82	--
MW-13	5/26/20	3980.82	121.88	--	--	3858.94	--
MW-13	6/16/20	3980.82	121.89	--	--	3858.93	--
MW-13	7/30/20	3980.82	121.87	--	--	3858.95	--
MW-13	8/26/20	3980.82	121.90	--	--	3858.92	--
MW-13	9/17/20	3980.82	121.92	--	--	3858.90	141.31
MW-13	10/21/20	3980.82	121.93	--	--	3858.89	--
MW-13	11/4/20	3980.82	122.01	--	--	3858.81	--
MW-13	12/9/20	3980.82	121.97	--	--	3858.85	--
MW-13	1/28/21	3980.82	122.05	--	--	3858.77	--
MW-13	2/25/21	3980.82	122.11	--	--	3858.71	141.42
MW-13	3/24/21	3980.82	122.06	--	--	3858.76	--
MW-13	4/30/21	3980.82	122.10	--	--	3858.72	--
MW-13	5/11/21	3980.82	122.13	--	--	3858.69	--
MW-13	6/28/21	3980.82	122.27	--	--	3858.55	--
MW-13	7/27/21	3980.82	121.97	--	--	3858.85	--
MW-13	8/24/21	3980.82	121.88	--	--	3858.94	--
MW-13	9/30/21	3980.82	122.37	--	--	3858.45	141.42
MW-13	10/28/21	3980.82	122.40	--	--	3858.42	141.42
MW-13	11/16/21	3980.82	122.48	--	--	3858.34	141.42
MW-13	2/1/22	3980.82	122.54	--	--	3858.28	141.42
MW-13	2/22/22	3980.82	122.64	--	--	3858.18	141.26
MW-13	3/16/22	3980.82	122.67	--	--	3858.15	141.26
MW-13	4/11/22	3980.82	122.82	--	--	3858.00	141.26
MW-13	5/24/22	3980.82	122.86	--	--	3857.96	141.26
MW-13	6/15/22	3980.82	123.00	--	--	3857.82	141.26
MW-13	7/28/22	3980.82	123.05	--	--	3857.77	141.26
MW-13	8/24/22	3980.82	123.19	--	--	3857.63	141.26
MW-13	11/2/22	3980.82	123.34	--	--	3857.48	141.26
MW-14	11/29/17	3981.35	121.50	--	--	3859.85	142.01
MW-14	1/24/18	3981.35	121.45	--	--	3859.90	--
MW-14	2/19/18	3981.35	121.42	--	--	3859.93	142.51
MW-14	3/9/18	3981.35	--	--	--	--	--
MW-14	5/11/18	3981.35	--	--	--	--	--
MW-14	5/23/18	3981.35	121.63	--	--	3859.72	141.85
MW-14	8/22/18	3981.35	121.83	--	--	3859.52	141.77
MW-14	11/14/18	3981.35	121.77	--	--	3859.58	--
MW-14	2/25/19	3981.35	121.97	--	--	3859.38	141.77
MW-14	5/29/19	3981.35	122.15	--	--	3859.20	--
MW-14	7/29/19	3981.35	122.22	--	--	3859.13	--
MW-14	10/16/19	3981.35	122.26	--	--	3859.09	--
MW-14	2/24/20	3981.35	122.38	--	--	3858.97	141.49
MW-14	4/29/20	3981.35	122.53	--	--	3858.82	--
MW-14	5/26/20	3981.35	122.42	--	--	3858.93	--
MW-14	6/16/20	3981.35	122.42	--	--	3858.93	--

Table 1
Summary of Groundwater Gauging and Elevation Data
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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-14	7/30/20	3981.35	122.42	--	--	3858.93	--
MW-14	8/26/20	3981.35	122.44	--	--	3858.91	--
MW-14	9/17/20	3981.35	122.48	--	--	3858.87	141.44
MW-14	10/21/20	3981.35	122.48	--	--	3858.87	--
MW-14	11/4/20	3981.35	122.55	--	--	3858.80	--
MW-14	12/9/20	3981.35	122.52	--	--	3858.83	--
MW-14	1/28/21	3981.35	122.65	--	--	3858.70	--
MW-14	2/25/21	3981.35	122.67	--	--	3858.68	141.41
MW-14	3/24/21	3981.35	122.61	--	--	3858.74	--
MW-14	4/30/21	3981.35	122.64	--	--	3858.71	--
MW-14	5/11/21	3981.35	122.67	--	--	3858.68	--
MW-14	6/28/21	3981.35	122.62	--	--	3858.73	--
MW-14	7/27/21	3981.35	122.55	--	--	3858.80	--
MW-14	8/24/21	3981.35	122.57	--	--	3858.78	--
MW-14	9/30/21	3981.35	122.68	--	--	3858.67	141.41
MW-14	10/28/21	3981.35	122.74	--	--	3858.61	141.41
MW-14	11/16/21	3981.35	122.76	--	--	3858.59	141.41
MW-14	2/1/22	3981.35	123.07	--	--	3858.28	141.41
MW-14	2/22/22	3981.35	123.15	--	--	3858.20	141.41
MW-14	3/16/22	3981.35	123.18	--	--	3858.17	141.41
MW-14	4/11/22	3981.35	123.32	--	--	3858.03	141.41
MW-14	5/24/22	3981.35	123.36	--	--	3857.99	141.41
MW-14	6/15/22	3981.35	123.48	--	--	3857.87	141.41
MW-14	7/28/22	3981.35	123.48	--	--	3857.87	141.41
MW-14	8/24/22	3981.35	123.67	--	--	3857.68	141.41
MW-14	11/2/22	3981.35	123.82	--	--	3857.53	141.41

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. LNAPL - Light Non-Aqueous Phase Liquids
5. -- = No gauging data collected on corresponding date
6. Elevations of the potentiometric surface were calculated using a LNAPL specific gravity of 0.81 gram/cubic centimeter (g/cc).

Table 2

**Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637**

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	7/3/12	0.362	0.132	<0.005	0.869
MW-1	10/12/12	1.64	0.476	0.274	0.264
MW-1	11/21/13	2.24	0.653	0.371	0.266
MW-1	2/10/14	2.64	1.04	0.572	0.482
MW-1	5/7/14	0.681	0.335	0.156	0.164
MW-1	8/6/14	0.891	0.594	0.201	0.245
MW-1	11/18/14	0.635	0.321	0.193	0.156
MW-1	2/11/15	0.0881	0.0549	0.0399	0.0285
MW-1	5/5/15	0.676	0.263	0.174	0.158
MW-1	8/4/15	1.00	0.622	0.336	0.266
MW-1	11/20/15	2.06	1.1	0.631	0.453
MW-1	2/18/16	0.37	0.0386	0.0419	0.0312
MW-1	5/2/16	0.708	0.332	0.217	0.188
MW-1	8/8/16	0.221	0.0196	0.0107	0.0211
MW-1	12/12/16	0.199	0.199	0.0557	0.0765
MW-1 DUP-1	12/12/16	0.184	0.190	0.0535	0.0706
MW-1	3/15/17	0.0271	0.0165	0.00356	0.00501
MW-1	6/20/17	0.0295	0.0658	0.0243	0.0410
MW-1	9/18/17	0.101	0.152	0.0419	0.0510
MW-1	11/29/17	0.255	0.233	0.0639	0.0787
MW-1	2/20/18	0.0763	0.0354	0.0238	0.0173
MW-1 DUP-1	2/20/18	0.0671	0.0349	0.0211	0.0170
MW-1	5/24/18	0.138	0.0893	0.0349	0.0677
MW-1 DUP-1	5/24/18	0.155	0.0982	0.0396	0.0820
MW-1	8/23/18	0.887	1.39	0.498	0.698
MW-1 Dup 1	8/23/18	0.859	1.29	0.453	0.629
MW-1	11/15/18	0.222	0.373	0.115	0.148
MW-1 (Dup2)	11/15/18	0.103	0.155	0.0605	0.0828
MW-1	2/26/19	0.120	0.0863	0.0535	0.0495
MW-1	5/30/19	0.229	0.343	0.153	0.198
MW-1	7/30/19	0.162	0.148	0.0361	0.0848 J
MW-1	10/18/19	0.212	0.230	0.102	0.101
MW-1	2/25/20	0.0537	0.105	0.0472	0.0830
MW-1 (Dup2)	2/25/20	0.0529	0.0876	0.0398	0.0696
MW-1	5/27/20	0.0213	0.0462	0.0175	0.0201
MW-1	9/18/20	0.0263	0.0523	0.0204	0.0362
Dup (MW-1)	9/18/20	0.0243	0.0493	0.019	0.0337
MW-1	11/4/20	0.0192	0.0275	0.0115	0.0151
MW-1	2/25/21	0.00618	0.0180	0.00752	0.0119
MW-1 (Dup-1)	2/25/21	0.00522	0.0156	0.00656	0.0105
MW-1	5/12/21	0.0380	0.0152	0.00876	0.0146
MW-1	8/25/21	0.0137	0.0417	0.0164	0.0312
MW-1 (DUP-1)	8/25/21	0.0143	0.0452	0.0176	0.0326
MW-1	11/16/21	0.0920	0.283	0.11	0.132
MW-1	2/22/22	0.00796	0.0171	0.00659	0.0142

Table 2

**Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637**

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	5/25/22	0.0198	0.0812	0.0285	0.0511
MW-1	9/13/22	0.0458	0.0675	0.0260	0.0532
MW-1	11/3/22	0.0683	0.150	0.0619	0.0908
MW-2	7/3/12	<0.005	<0.005	<0.005	<0.015
MW-2	10/12/12	0.0731	0.0478	0.0113	0.024
MW-2	11/21/13	0.393	0.0186	0.0509	0.0334
MW-2	2/10/14	0.200	0.230	0.099	0.172
MW-2	5/7/14	0.248	0.101	0.0719	0.067
MW-2	8/6/14	0.766	0.557	0.337	0.358
MW-2	11/18/14	0.0196	0.0132	0.00239	0.00715
MW-2	2/11/15	0.0558	0.0429	0.0031	0.0131
MW-2	5/5/15	0.126	0.0764	0.0541	0.0465
MW-2	8/4/15	0.0445	0.0671	0.0182	0.0278
MW-2	11/20/15	0.108	0.173	0.0624	0.0809
MW-2	2/18/16	0.0115	0.0167	0.00436	0.00848
MW-2	5/2/16	0.00768	0.0120	0.00323	0.00434
MW-2	8/8/16	0.0163	0.0136	0.0102	0.0136
MW-2	12/12/16	0.0318	0.0458	0.00981	0.0275
MW-2	3/15/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-2	6/20/17	0.0296	0.0469	0.00769	0.0218
MW-2	9/18/17	0.0385	0.0748	0.0188	0.0533
MW-2	11/29/17	0.0185	0.0298	0.00741	0.0173
MW-2	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-2	5/24/18	0.00243	0.00297	0.00129J	0.00225
MW-2	8/23/18	0.00766	0.0239	0.00979	0.0770
MW-2	11/14/18	0.00229	0.00355	0.000540	0.00527
MW-2	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	5/30/19	<0.000190	<0.000412	<0.000160	0.00913 J
MW-2	7/30/19	0.000216	<0.000412	<0.000160	0.000526
MW-2	10/16/19	0.00260	0.000914 J	<0.000160	0.00380
MW-2	2/25/20	0.000297 J	<0.000412	<0.000160	<0.000510
MW-2	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	5/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	8/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	11/16/21	0.000123 J	<0.000278	<0.000137	<0.000174
MW-2	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-2	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-2	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-3	7/3/12	0.667	0.556	0.140	0.1972
MW-3	10/12/12	1.40	0.916	0.129	0.172
MW-3	11/21/13	0.0916	0.0624	0.0173	0.0342

Table 2

**Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637**

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-3	2/10/14	0.011	0.0205	0.010	0.0288
MW-3	5/7/14	0.104	0.0538	0.00786	0.0159
MW-3	8/6/14	0.290	0.158	0.0355	0.052
MW-3	11/18/14	0.298	0.0941	0.0238	0.0301
MW-3	2/11/15	0.240	0.0553	0.00988	0.0162
MW-3	5/5/15	0.349	0.115	0.0207	0.0362
MW-3	8/4/15	0.366	0.098	0.0239	0.038
MW-3	11/20/15	1.42	0.435	0.200	0.179
MW-3	2/18/16	0.152	0.0166	0.00579	0.00552
MW-3	5/2/16	0.0591	0.0184	0.00476	0.00833
MW-3	8/8/16	0.0256	<0.00200	<0.00200	<0.00200
MW-3	12/12/16	0.129	0.0771	0.0105	0.0263
MW-3	3/15/17	0.0513	<0.00200	0.00294	<0.00200
MW-3 DUP	3/15/17	0.0459	0.00418	<0.00200	<0.00200
MW-3	6/20/17	0.1570	0.0160	0.00232	0.0107
MW-3 DUP	6/20/17	0.1420	0.0144	0.00237	0.00946
MW-3	9/18/17	0.1090	0.0431	0.00263	0.0203
MW-3 DUP	9/18/17	0.1390	0.0514	0.0035	0.0280
MW-3	11/30/17	0.0376	0.00174 J	<0.00200	0.00133 J
MW-3	2/20/18	0.0356	<0.00200	<0.00200	<0.00200
MW-3	5/24/18	0.0176	<0.000367	<0.000657	<0.000630
MW-3	8/23/18	0.0191	<0.00100	<0.000500	0.00191
MW-3	11/15/18	0.0288	0.00933	0.000943	0.00735
MW-3 (Dup1)	11/15/18	0.0250	0.00741	0.000719	0.00593
MW-3	2/26/19	0.0159	0.000793 J	0.000161 J	<0.000510
MW-3 (Dup 2)	2/26/19	0.0161	0.000766 J	0.000187 J	0.000584 J
MW-3	5/30/19	0.0136	0.000825 J	<0.000160	0.000847 J
MW-3	7/30/19	0.00368	<0.000412	<0.000160	0.00355
MW-3	10/16/19	0.00250	0.000504 J	<0.000160	0.00397
MW-3	2/25/20	0.000820	<0.000412	<0.000160	<0.000510
MW-3	5/27/20	0.000825	<0.000412	<0.000160	<0.000510
MW-3	9/18/20	0.000475 J	0.000542 J	0.000615	0.00165
MW-3	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-3	2/25/21	0.000353 J	<0.000412	<0.000160	<0.000510
MW-3	5/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-3	8/25/21	0.000861	<0.000412	<0.000160	<0.000510
MW-3	11/16/21	0.000253 J	<0.000278	<0.000137	<0.000174
MW-3	2/22/22	0.000335 J	<0.000412	<0.000160	<0.000510
MW-3 (DUP-1)	2/22/22	0.000388 J	0.00175	0.000415 J	0.00304
MW-3	5/25/22	0.000539 J	<0.000998	<0.000462	<0.00132
MW-3	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-3	11/3/22	0.00700	<0.000412	<0.000160	<0.000510
MW-4	7/3/12	<0.005	<0.005	<0.005	<0.015
MW-4	10/12/12	<0.001	<0.002	<0.001	<0.001
MW-4	11/21/13	0.00255	<0.002	<0.001	<0.001

Table 2

**Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637**

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	2/10/14	<0.001	<0.002	<0.001	<0.001
MW-4	5/7/14	<0.001	<0.002	<0.001	<0.001
MW-4	8/6/14	0.00288	0.00409	<0.001	<0.001
MW-4	11/18/14	<0.001	<0.002	<0.001	<0.001
MW-4	2/11/15	<0.001	<0.002	<0.001	<0.001
MW-4	5/5/15	<0.001	<0.002	<0.001	<0.001
MW-4	8/4/15	<0.001	<0.002	<0.001	<0.001
MW-4	11/20/15	<0.001	<0.002	<0.001	<0.001
MW-4	2/18/16	<0.001	<0.002	<0.001	<0.001
MW-4	5/2/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	8/8/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	12/12/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	3/15/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	6/20/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	9/18/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	11/29/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-4	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-4	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-4	11/14/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-4 (Dup1)	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	5/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	10/17/19	0.000201 J	0.000567 J	0.000252 J	0.000651 J
MW-4	2/24/20	0.000580	<0.000412	0.000283 J	0.000512 J
MW-4	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	9/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	5/12/21	<0.000190	<0.000412	0.000330 J	<0.000510
MW-4	8/24/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	11/16/21	<0.0000941	<0.000278	<0.000137	<0.000174
MW-4	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-4	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	3/8/13	<0.000160	<0.005	<0.005	<0.015
MW-5	11/21/13	<0.000510	<0.002	<0.001	<0.001
MW-5	2/10/14	<0.001	<0.002	<0.001	<0.001
MW-5	5/7/14	<0.001	<0.002	<0.001	<0.001
MW-5	8/6/14	<0.001	<0.002	<0.001	<0.001
MW-5	11/18/14	<0.001	<0.002	<0.001	<0.001
MW-5	2/11/15	<0.001	<0.002	<0.001	<0.001
MW-5	5/5/15	<0.001	<0.002	<0.001	<0.001

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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-5	8/4/15	<0.001	<0.002	<0.001	<0.001
MW-5	11/20/15	<0.001	<0.002	<0.001	<0.001
MW-5	2/18/16	<0.001	<0.002	<0.001	<0.001
MW-5	5/2/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	8/8/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	12/12/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	3/15/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	6/20/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	9/18/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	11/29/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-5	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-5	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-5	11/14/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	5/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	10/17/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-5 (Dup-2)	10/17/19	0.000275 J	<0.000412	<0.000160	<0.000510
MW-5	2/25/20	0.000247 J	<0.000412	<0.000160	<0.000510
MW-5	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	5/12/21	<0.000190	<0.000412	0.000247 J	<0.000510
MW-5	8/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	11/16/21	<0.0000941	<0.000278	<0.000137	<0.000174
MW-5	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-5	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-5	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	3/8/13	<0.005	<0.005	<0.005	<0.015
MW-6	11/21/13	0.00809	0.00242	0.00415	0.00918
MW-6	2/10/14	0.00111	0.00345	0.00359	0.0128
MW-6	5/7/14	0.0139	0.00579	0.00533	0.0132
MW-6	8/6/14	0.0191	0.00562	0.00258	0.00667
MW-6	11/18/14	0.00189	<0.002	<0.001	<0.001
MW-6	2/11/15	0.0147	0.00315	<0.001	0.00303
MW-6	5/5/15	0.0193	0.00499	0.00228	0.00459
MW-6	8/4/15	0.0678	0.019	0.0132	0.0259
MW-6	11/20/15	0.0062	0.00219	0.00168	0.00242
MW-6	2/18/16	0.0143	0.00343	0.00234	0.00517
MW-6	5/2/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-6	8/8/16	<0.00200	<0.00200	<0.00200	<0.00200
MW-6	12/12/16	0.0123	0.00253	<0.00200	0.00539

Table 2

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Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637**

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-6	3/15/17	0.00732	<0.00200	<0.00200	0.00201
MW-6	6/20/17	0.00755	0.00250	<0.00200	0.00282
MW-6	9/18/17	0.0888	0.01930	0.0110	0.0301
MW-6	11/29/17	0.0297	0.00399	0.00138 J	0.00488
MW-6 DUP-1	11/29/17	0.0373	0.00448	0.00183 J	0.00660
MW-6	2/20/18	0.0405	0.00952	0.00802	0.01880
MW-6	5/24/18	0.000910 J	<0.000367	<0.000657	<0.000630
MW-6	8/23/18	0.00179	<0.00100	<0.000500	0.00229
MW-6	11/14/18	0.00372	0.000796 J	<0.000160	0.00369
MW-6	2/26/19	<0.000190	<0.000412	<0.000160	0.000644 J
MW-6	5/30/19	0.0100	0.000972 J	0.000370 J	0.00374
MW-6	7/30/19	0.000772	<0.000412	<0.000160	0.000982
MW-6	10/16/19	0.00295	<0.000412	<0.000160	0.000861 J
MW-6	2/25/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	5/27/20	<0.000190	<0.000412	0.000208 J	0.000709 J
MW-6	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	5/12/21	<0.000190	<0.000412	0.000477 J	<0.000510
MW-6	8/25/21	0.000344 J	<0.000412	<0.000160	<0.000510
MW-6	11/16/21	0.000246 J	<0.000278	<0.000137	0.000208 J
MW-6	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-6	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-7	3/8/13	1.22	6.88	1.86	2.395
MW-7	11/21/13	LNAPL	--	--	--
MW-7	2/10/14	LNAPL	--	--	--
MW-7	5/7/14	LNAPL	--	--	--
MW-7	8/6/14	LNAPL	--	--	--
MW-7	11/18/14	LNAPL	--	--	--
MW-7	2/11/15	LNAPL	--	--	--
MW-7	5/5/15	LNAPL	--	--	--
MW-7	8/4/15	LNAPL	--	--	--
MW-7	11/20/15	LNAPL	--	--	--
MW-7	2/18/16	LNAPL	--	--	--
MW-7	5/2/16	LNAPL	--	--	--
MW-7	8/8/16	LNAPL	--	--	--
MW-7	12/12/16	LNAPL	--	--	--
MW-7	3/15/17	LNAPL	--	--	--
MW-7	6/20/17	LNAPL	--	--	--
MW-7	9/18/17	LNAPL	--	--	--
MW-7	11/29/17	LNAPL	--	--	--
MW-7	2/20/18	LNAPL	--	--	--
MW-7	5/24/18	LNAPL	--	--	--

Table 2

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Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637**

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	8/23/18	LNAPL	--	--	--
MW-7	11/15/18	LNAPL	--	--	--
MW-7	2/26/19	LNAPL	--	--	--
MW-7	5/30/19	LNAPL	--	--	--
MW-7	7/30/19	LNAPL	--	--	--
MW-7	10/16/19	LNAPL	--	--	--
MW-7	2/24/20	LNAPL	--	--	--
MW-7	5/27/20	LNAPL	--	--	--
MW-7	9/18/20	LNAPL	--	--	--
MW-7	11/4/20	LNAPL	--	--	--
MW-7	2/25/21	LNAPL	--	--	--
MW-7	5/12/21	LNAPL	--	--	--
MW-7	2/22/22	LNAPL	--	--	--
MW-7	5/25/22	LNAPL	--	--	--
MW-7	9/13/22	LNAPL	--	--	--
MW-7	11/3/22	LNAPL	--	--	--
MW-8	11/30/17	0.363	0.314	0.314	0.704
MW-8	2/20/18	1.91	0.868	0.273	0.512
MW-8 DUP-2	2/20/18	3.47	0.825	0.261	0.501
MW-8	5/24/18	1.94	0.548	0.149	0.211
MW-8 DUP-2	5/24/18	1.87	0.524	0.176	0.242
MW-8	8/23/18	5.43	3.84	0.494	1.11
MW-8 DUP-2	8/23/18	4.92	3.43	0.489	0.911
MW-8	11/15/18	2.56	0.893	0.258	0.395
MW-8	2/26/19	2.18	0.341	0.0861	0.163
MW-8	5/30/19	3.57	1.56	0.205	0.590
MW-8 (Dup-2)	5/30/19	3.37	1.53	0.135	0.394
MW-8	7/30/19	3.06	0.518	0.102	0.261
MW-8 (Dup-1)	7/30/19	3.24	0.521	0.0849	0.211
MW-8	10/17/19	1.82	0.191	0.0981	0.227
MW-8	2/24/20	2.22	0.783	0.0990	0.412
MW-8	5/27/20	3.06	0.876	0.0507	0.232
MW-8	9/17/20	2.01	0.0873	0.0371	0.187
MW-8	11/4/20	2.42	0.751	0.0879	0.344
MW-8	2/25/21	2.63	1.070	0.103	0.481
MW-8	5/12/21	1.78	0.240	0.0417	0.204
MW-8 (DUP-1)	5/12/21	2.09	0.192	0.0396	0.179
MW-8	8/24/21	2.63	1.30	0.0945	0.668
MW-8	11/16/21	1.61	0.403	0.0499	0.240
MW-8	2/22/22	1.56	0.149	0.0237	0.119
MW-8	5/25/22	2.00	0.368	0.0350	0.224
MW-8	9/13/22	2.14	0.470	0.0322	0.217
MW-8	11/3/22	1.19	0.0615	0.0222	0.106
MW-8 (DUP-1)	11/3/22	1.44	0.1100	0.0276	0.132
MW-9	11/30/17	<0.00200	0.00167 J	0.00125 J	0.00131 J

Table 2

**Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637**

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	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-9	5/24/18	0.00381	<0.000367	<0.000657	<0.000630
MW-9	8/23/18	0.00860	<0.00100	<0.000500	0.00161
MW-9	11/15/18	0.0345	0.00167	0.00363	0.00231
MW-9 (rerun)	11/15/18	0.0323	0.00126	0.00365	0.00230
MW-9	2/26/19	0.0231	0.00116	0.000222 J	<0.000150
MW-9	5/30/19	0.0513	0.00219	<0.000160	0.00616
MW-9	7/30/19	0.0474	0.000835	0.000327	0.00497
MW-9	10/17/19	0.00928	0.000656 J	<0.000160	0.0106
MW-9	2/25/20	0.00571	<0.000412	<0.000160	<0.000510
MW-9 (Dup-1)	2/25/20	0.00609	<0.000412	<0.000160	<0.000510
MW-9	5/27/20	0.00401	<0.000412	<0.000160	<0.000510
MW-9 (DUP-2)	5/27/20	0.00984	<0.000412	0.000192 J	0.00115 J
MW-9	9/18/20	0.00530	<0.000412	<0.000160	<0.000510
MW-9	11/4/20	0.00318	<0.000412	<0.000160	<0.000510
MW-9 (DUP-1)	11/4/20	0.00281	0.000463 J	0.000172 J	<0.000510
MW-9	2/25/21	0.00301	<0.000412	<0.000160	<0.000510
MW-9	5/12/21	0.00229	0.000458 J	<0.000160	<0.000510
MW-9	8/25/21	0.00351	<0.000412	<0.000160	<0.000510
MW-9	11/16/21	0.00343	<0.000278	0.000146 J	0.000422 J
MW-9	2/22/22	0.00144	0.000453 J	<0.000160	<0.000510
MW-9	5/25/22	0.00176 J	<0.000998	<0.000462	<0.00132
MW-9	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	11/3/22	0.00459	<0.000412	<0.000160	<0.000510
MW-10	11/30/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-10 DUP-2	11/30/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-10	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-10	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-10	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-10	11/15/18	0.0180	0.000706 J	<0.000160	0.000795 J
MW-10 (rerun)	11/15/18	0.0159	<0.000412	<0.000160	<0.000510
MW-10	2/26/19	0.00108	<0.000412	<0.000160	<0.000510
MW-10	5/30/19	0.0386	0.000570	0.000197	<0.000510
MW-10	7/30/19	0.0314	<0.000412	<0.000160	<0.000510
MW-10	10/16/19	0.0456	0.000642 J	0.000253 J	0.00576
MW-10 (Dup-1)	10/16/19	0.0343	0.000542 J	0.000281 J	0.00449
MW-10	2/25/20	0.00353	<0.000412	<0.000160	<0.000510
MW-10	5/27/20	0.00258	<0.000412	<0.000160	<0.000510
MW-10	9/17/20	0.00220	<0.000412	<0.000160	<0.000510
MW-10	11/4/20	0.00164	<0.000412	<0.000160	<0.000510
MW-10	2/25/21	0.000851	<0.000412	<0.000160	<0.000510
MW-10	5/12/21	0.000823	0.000467 J	<0.000160	<0.000510
MW-10	8/25/21	0.000584	<0.000412	<0.000160	<0.000510
MW-10	11/16/21	0.00402	<0.000278	<0.000137	<0.000174

Table 2

Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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	2/22/22	0.00162	0.000480 J	<0.000160	<0.000510
MW-10	5/25/22	0.00207	<0.000998	<0.000462	<0.00132
MW-10	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-11	11/30/17	0.0128	0.0309	0.104	0.165
MW-11	2/20/18	<0.00200	<0.00200	<0.00200	0.0148
MW-11	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-11	8/23/18	<0.000500	<0.00100	0.00239	0.00338
MW-11	11/15/18	0.0692	0.0195	0.0119	0.0167
MW-11 (rerun)	11/15/18	0.0590	0.0149	0.00996	0.0126
MW-11	2/26/19	0.0502	0.000826 J	0.00418	0.00343
MW-11	5/30/19	0.00585	<0.000412	0.000203 J	0.00356
MW-11 (Dup-1)	5/30/19	0.00512	<0.000412	0.000251 J	0.00383
MW-11	7/30/19	0.0188	<0.000412	0.00104	0.00185
MW-11 (Dup-2)	7/30/19	0.0288	<0.000412	0.00157	0.00303
MW-11	10/16/19	0.00891	<0.000412	0.00363	0.00298
MW-11	2/24/20	0.117	0.00785	0.00500	0.0305
MW-11	5/27/20	0.00193	<0.000412	0.000191 J	<0.000510
MW-11	9/17/20	0.00287	<0.000412	0.00243	0.000799 J
MW-11	11/4/20	0.0138	<0.000412	0.00177	0.00142 J
MW-11	2/25/21	0.0429	0.000905 J	0.00459	0.00545
MW-11	5/12/21	0.0144	<0.000412	0.00339	0.00148 J
MW-11	8/25/21	0.00644	<0.000412	<0.000160	<0.000510
MW-11	11/16/21	0.238	0.00813	0.00645	0.0342
MW-11 (DUP)	11/16/21	0.231	0.00804	0.00637	0.0343
MW-11	2/22/22	0.0127	<0.000412	0.000191 J	0.000667 J
MW-11	5/25/22	0.0316	<0.000998	<0.000462	0.00288 J
MW-11	9/13/22	0.0057	<0.000412	<0.000160	<0.000510
MW-11	11/3/22	0.0146	<0.000412	<0.000160	<0.000510
MW-12	11/30/17	0.153	0.0420	0.0210	0.0291
MW-12	2/20/18	0.297	0.0305	0.00774	0.0336
MW-12	5/24/18	0.391	0.138	0.00722	0.0848
MW-12	8/23/18	1.04	0.382	0.0583	0.125
MW-12	11/15/18	0.943	0.307	0.0333	0.159
MW-12	2/26/19	0.733	0.198	0.00788 J	0.108
MW-12	5/30/19	1.14	0.264	0.0223	0.135
MW-12	7/30/19	LNAPL	--	--	--
MW-12	10/16/19	LNAPL	--	--	--
MW-12	2/24/20	LNAPL	--	--	--
MW-12	5/27/20	LNAPL	--	--	--
MW-12	9/18/20	LNAPL	--	--	--
MW-12	11/4/20	LNAPL	--	--	--
MW-12	2/25/21	LNAPL	--	--	--
MW-12	5/12/21	LNAPL	--	--	--
MW-12	2/22/22	LNAPL	--	--	--

Table 2

**Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637**

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	5/25/22	LNAPL	--	--	--
MW-12	9/13/22	LNAPL	--	--	--
MW-12	11/3/22	LNAPL	--	--	--
MW-13	11/30/17	<0.00200	<0.00200	<0.00200	<0.00200
MW-13	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-13	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-13	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-13	11/15/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	5/30/19	0.000381 J	<0.000412	<0.000160	<0.000510
MW-13	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	10/18/19	0.000786	0.000830 J	0.000324 J	<0.000510
MW-13	2/25/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-13 (DUP-1)	5/27/20	0.000720	<0.000412	<0.000160	<0.000510
MW-13	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	5/12/21	<0.000190	<0.000412	0.000161 J	<0.000510
MW-13	8/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	11/16/21	<0.0000941	<0.000278	<0.000137	<0.000174
MW-13	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-13	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-13	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	11/30/17	<0.00200	0.000950 J	0.00120 J	0.00250
MW-14	2/20/18	<0.00200	<0.00200	<0.00200	<0.00200
MW-14	5/24/18	<0.000408	<0.000367	<0.000657	<0.000630
MW-14	8/23/18	<0.000500	<0.00100	<0.000500	<0.00150
MW-14	11/15/18	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	5/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	10/18/19	0.000443 J	<0.000412	<0.000160	<0.000510
MW-14	2/25/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	5/27/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	9/18/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	11/4/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	2/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	5/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	8/25/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	11/16/21	<0.0000941	<0.000278	<0.000137	<0.000174
MW-14	2/22/22	<0.000190	<0.000412	<0.000160	<0.000510
MW-14	5/25/22	<0.000493	<0.000998	<0.000462	<0.00132
MW-14	9/13/22	<0.000190	<0.000412	<0.000160	<0.000510

Table 2

**Summary of Groundwater Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637**

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-14	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	8/23/18	0.000652	<0.00100	<0.000500	<0.00150
Trip Blank	11/15/18	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	2/26/19	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	5/30/19	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	7/30/19	<0.000190	<0.000412	<0.000160	<0.000510
Trip Blank	2/25/20	<0.000190	<0.000412	<0.000160	0.000659 J
Trip Blank	11/3/22	<0.000190	<0.000412	<0.000160	<0.000510

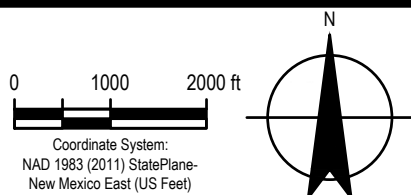
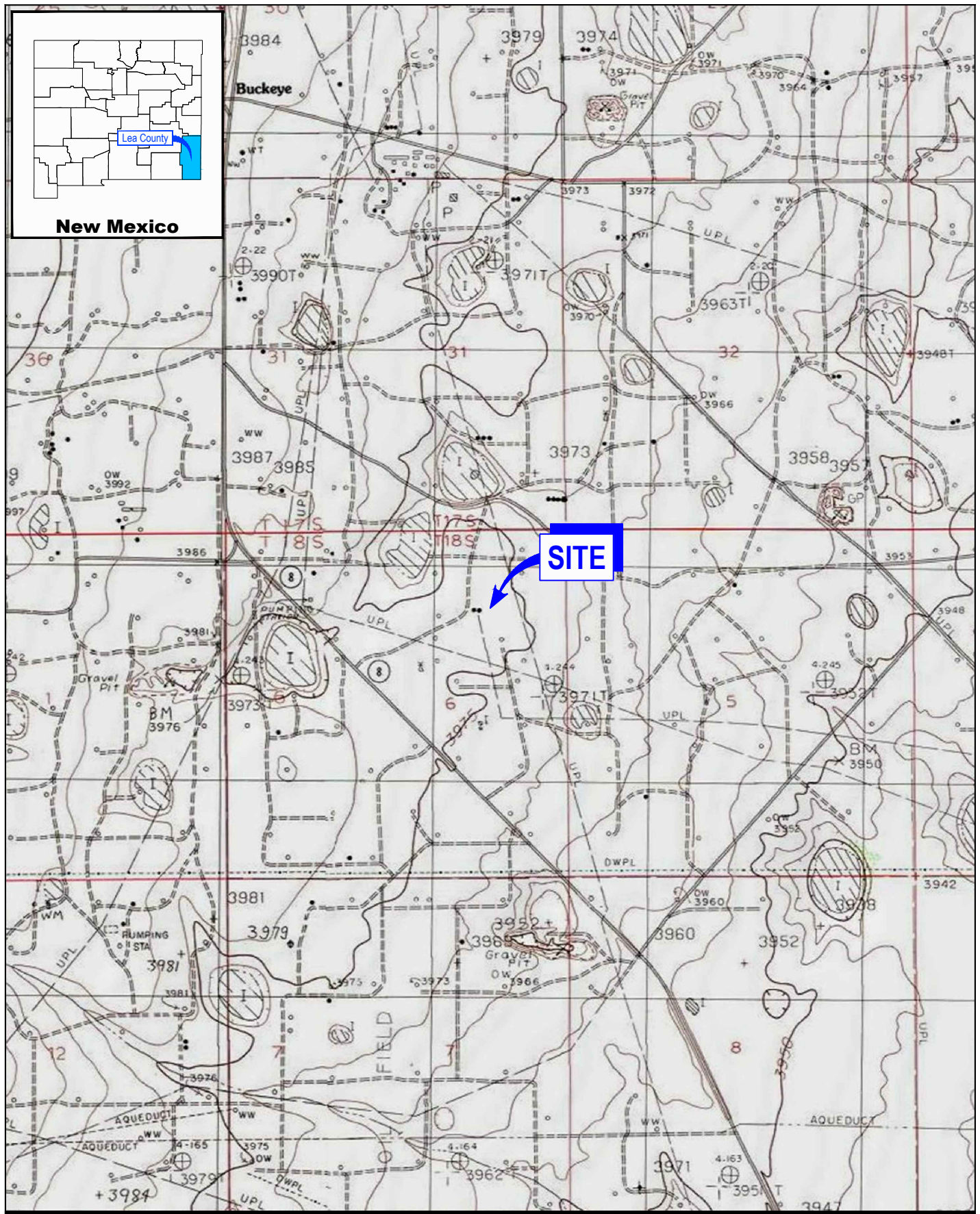
Notes:

1. Sample results listed prior to December 12, 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. LNAPL - Light Non-Aqueous Phase Liquid.
10. -- = No analytical data reported for corresponding date.

Table 3

Summary of Groundwater PAH Compound Analytical Results
Plains Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD 1RP-2637

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	7/3/12	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	0.00672	<0.00526	<0.00526	NA	<0.00526
MW-1	5/7/14	<0.000050	0.000368	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.00247	<0.000050	0.00173	<0.000050	0.00974	0.00171	<0.000050	NA	NA
MW-1	11/29/17	<0.000183	<0.000183	<0.000183	0.000331	0.000355	0.000428	0.000453	0.000580	0.000449	0.000525	0.000343	0.000132 J	0.000646	0.000563	0.00252	0.000619	0.000173 J	0.00185	0.00207
MW-1	11/15/18	0.0000551	0.0000435 J	<0.0000120	<0.0000410	<0.0000116	0.00000549 J	0.00000294 J	0.0000136	0.0000125 J	<0.0000396	0.000171	<0.0000157	0.000289	<0.0000148	0.000655	0.000158	0.0000279 J	0.00154	0.000366
MW-2	7/3/12	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	<0.00526	NA	<0.00526
MW-2	5/7/14	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	NA	NA
MW-2	10/16/19	<0.0000280	<0.0000200	<0.0000240	<0.00000820	<0.0000232	<0.00000424	<0.00000454	<0.0000272	<0.0000216	<0.00000792	0.00000625 J	<0.0000314	<0.0000170	<0.0000296	<0.0000396	<0.0000164	<0.0000234	<0.0000164	<0.0000180
MW-2	11/4/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674
MW-3	7/3/12	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	NA	<0.00510
MW-3	5/7/14	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	NA	NA
MW-3	11/15/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.000318	<0.0000157	0.000213	<0.0000148	0.000793	0.0000760	<0.0000117	0.000752	<0.00000902
MW-3	10/16/19	<0.0000140	0.0000136 J	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.000328	<0.0000157	0.000144	<0.0000148	0.000383	0.0000916	<0.0000117	0.000377	0.0000142 J
MW-4	7/3/12	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	NA	<0.00510
MW-4	11/29/17	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000133 J	<0.000183	0.000170 J	0.000316	<0.000183	NA	NA
MW-4	11/15/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.00000120 J	<0.0000157	<0.00000850	<0.0000148	0.000148 J	<0.00000820	<0.0000117	0.00000905 J	<0.00000902
MW-4	10/17/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.00000512 J	<0.0000157	<0.00000850	<0.0000148	0.0000354 J	<0.00000820	<0.0000117	0.0000108 J	0.0000110 J
MW-5	3/8/13	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	NA	<0.0103
MW-5	5/7/14	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	NA	NA
MW-5	10/17/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.00000465 J	<0.0000157	<0.00000850	<0.0000148	0.0000242 J	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-5 (Dup-2)	10/17/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	0.00000431 J	0.00000262 J	<0.0000136	<0.0000108	<0.00000396	0.00000588 J	<0.0000157	<0.00000850	<0.0000148	0.0000270 J	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-5	11/4/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674
MW-6	3/8/13	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	NA	<0.0102
MW-6	5/7/14	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	<0.000051	NA	NA
MW-6	10/16/19	<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.00000614 J	<0.0000157	<0.00000850	<0.0000148	0.0000337 J	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-6	11/4/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000917	<0.0000180	<0.0000169	<0.0000687	<0.0000674
MW-7	3/8/13	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	0.0058	<0.0102	0.00408	<0.0102	0.0652	0.00537	<0.0102	NA	0.0535
MW-8	11/30/17	<0.000184	0.000649	0.000610	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000344	<0.000184	0.00247	<0.000184	0.00341	<0.000184	0.0633	0.00427	0.000304	NA	NA
MW-8	11/15/18	<0.0000140	0.000412	<0.0000120	<0.00000410	<0.0000116	0.00000608 J	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.00401	<0.0000157	0.00303	<0.0000148	0.0812	0.00157	0.0000203 J	0.0945	0.659
MW-8	10/17/19	0.0000821	0.000540	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.00425	<0.0000157	0.00322	<0.0000148	0.0538	0.00203	0.0000247 J	0.0726	0.0517
MW-8	11/4/20	0.000112	0.000355	0.0005030	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	0.00504	<0.0000270	0.00332	<0.0000158	0.0663	0.00313	<0.0000169	0.0737	0.0471
MW-8	11/16/21	<0.0000190	0.000543	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	0.0000319 J	<0.0000160	0.00388	0.0000372 J	0.00332	<0.0000158	0.0552	0.00297	0.0000344 J	0.0542	0.0272
MW-8	11/3/22	<0.0000190	0.000511	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	0.0000259 J	<0.0000160	0.00372	0.0000368 J	0.00307	<0.0000158	0.0415	0.00329	0.0000363 J	0.0384	0.0178
MW-9	11/30/17	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000134 J	<0.000183	0.000134 J	0.000305	<0.000183	NA	NA
MW-9	11/15/18	<0.0000140	0.0000145 J	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.000382	<0.0000157	0.000117	<0.0000148	0.000406	0.000137	<0.0000117	0.000418	0.0000156 J
MW-9	10/17/19	<0.0000140	0.0000500 J	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	0.00123	<0.0000157	0.000509	<0.0000148	0.00127	0.000503	<0.0000117	0.00124	0.0000655 J
MW-9	11/4/20	<0.0000190	0.0000267 J	<0.0000184	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	0.00123	<0.0000270	0.000476	<0.0000158	0.00113	0.000438	<0.0000169	0.00126	<0.0000674
MW-9	11/16/21	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000614	<0.0000270	0.000209	<0.0000158	0.000334	0.000252	<0.0000169	0.000339 J4	<0.0000674 J4
MW-9	11/3/22	<0.000190	<0.000190	<0.000171	<0.0000203	<0.000184	<0.000168	<0.000184	<0.000202	<0.000179	<0.000160	0.000232	0.0000301 J	0.000070	<0.0000158	0.000114 J	0.000078	0.0000236 J	0.0000915 J	<0.0000674 J4
MW-10	11/30/17	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000151 J	<0.000184	0.000163 J				



PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

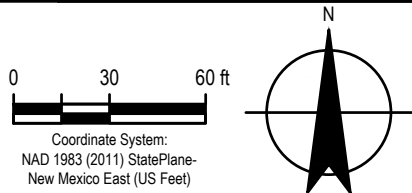
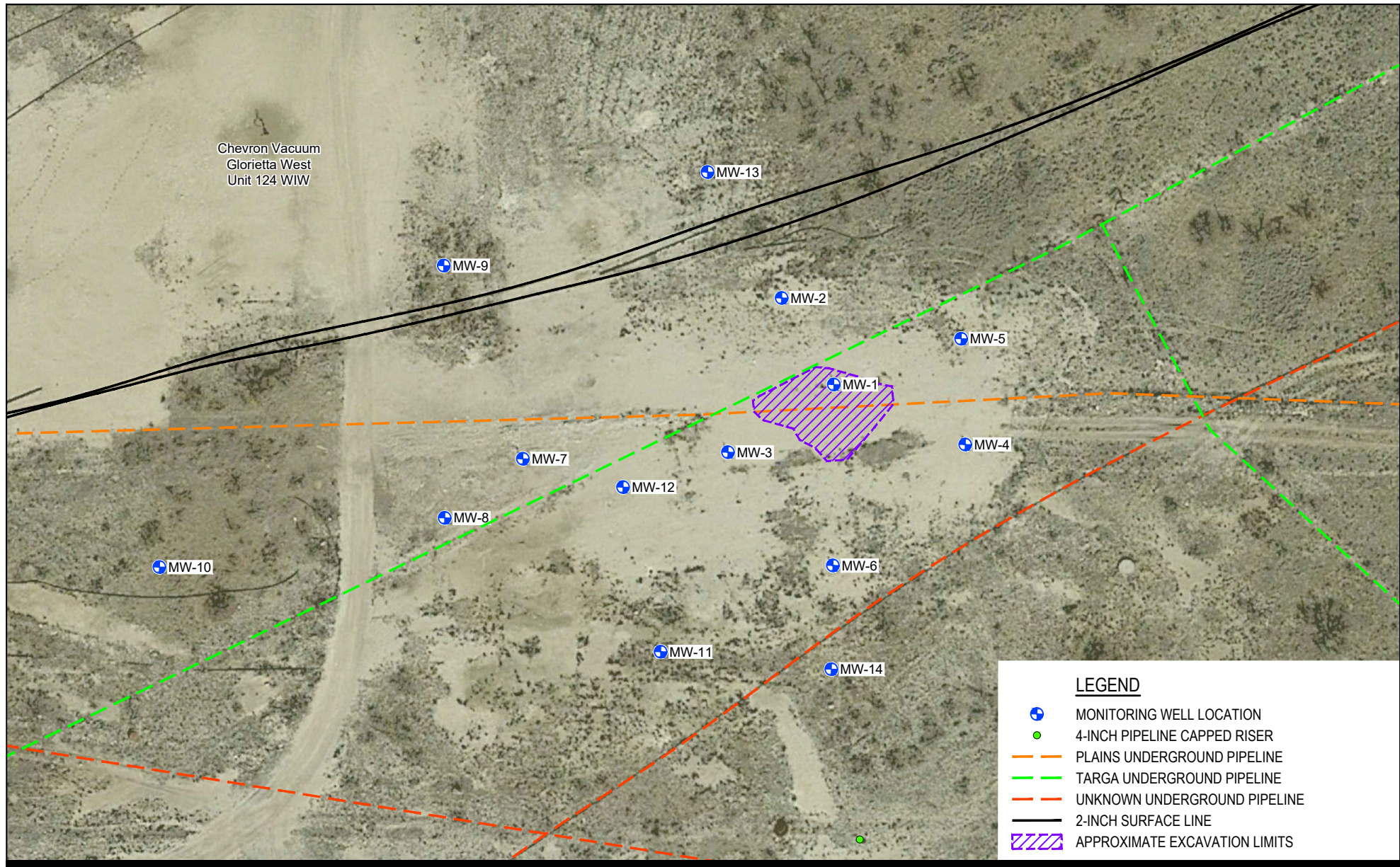
Project No. 12572712
Date February 2023

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\USMifland\Projects\56212572712\Digital Design\ACAD\Figures\GWR2022\12572712-GHD-0000-RPT-EN-0101_DL-2022.dwg

Data Source: USGS 7.5 Minute Quad "Lovington SW and Buckeye, New Mexico"
Lat/Long: 32.78091° North, 103.492240° West

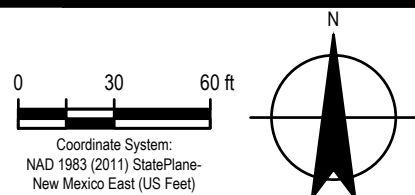
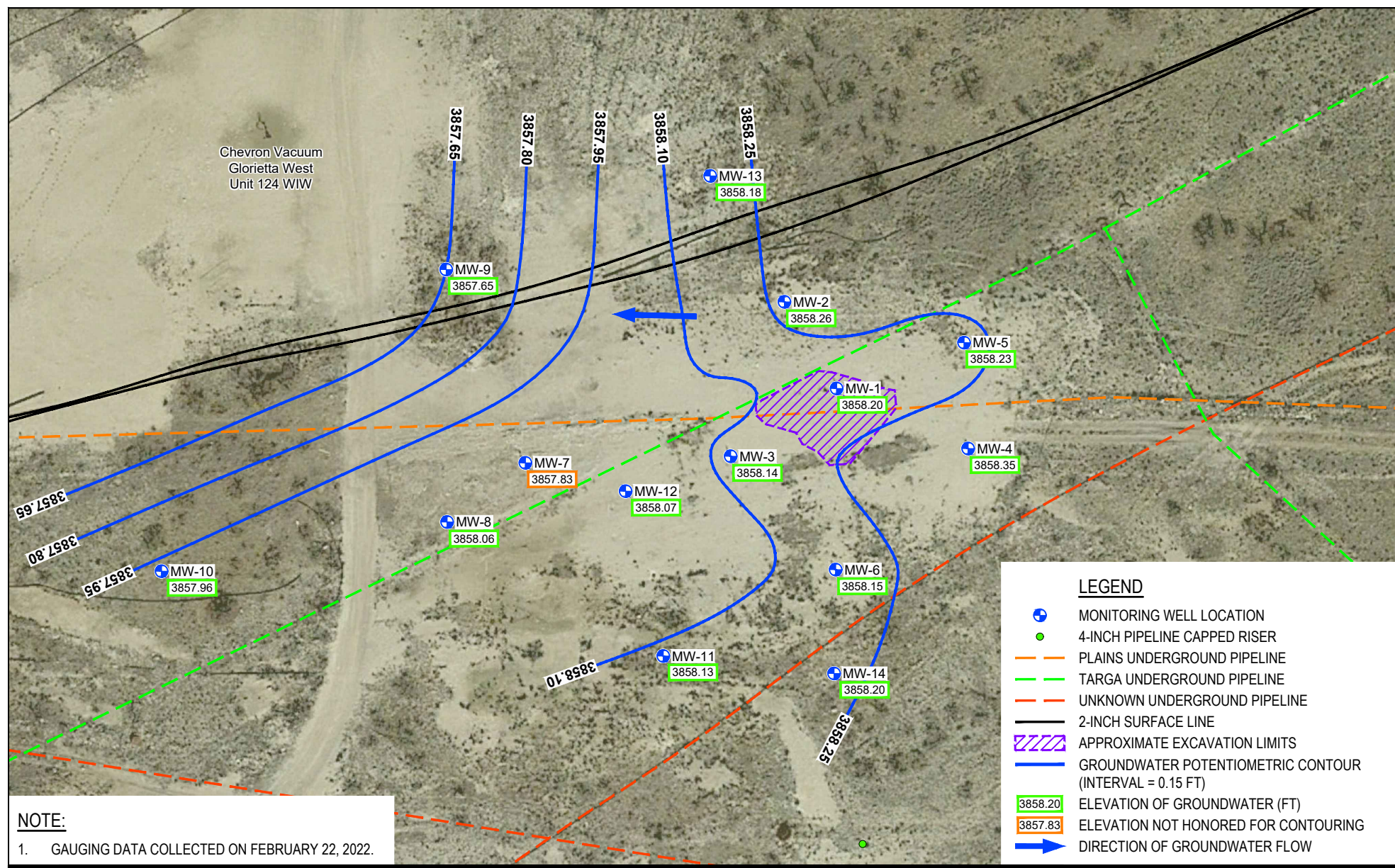


PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

Project No. 12572712
Date March 2023

SITE DETAILS MAP

FIGURE 2

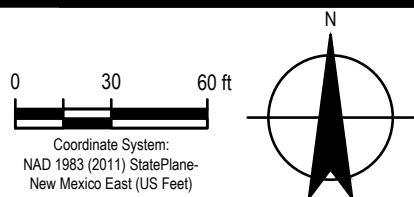
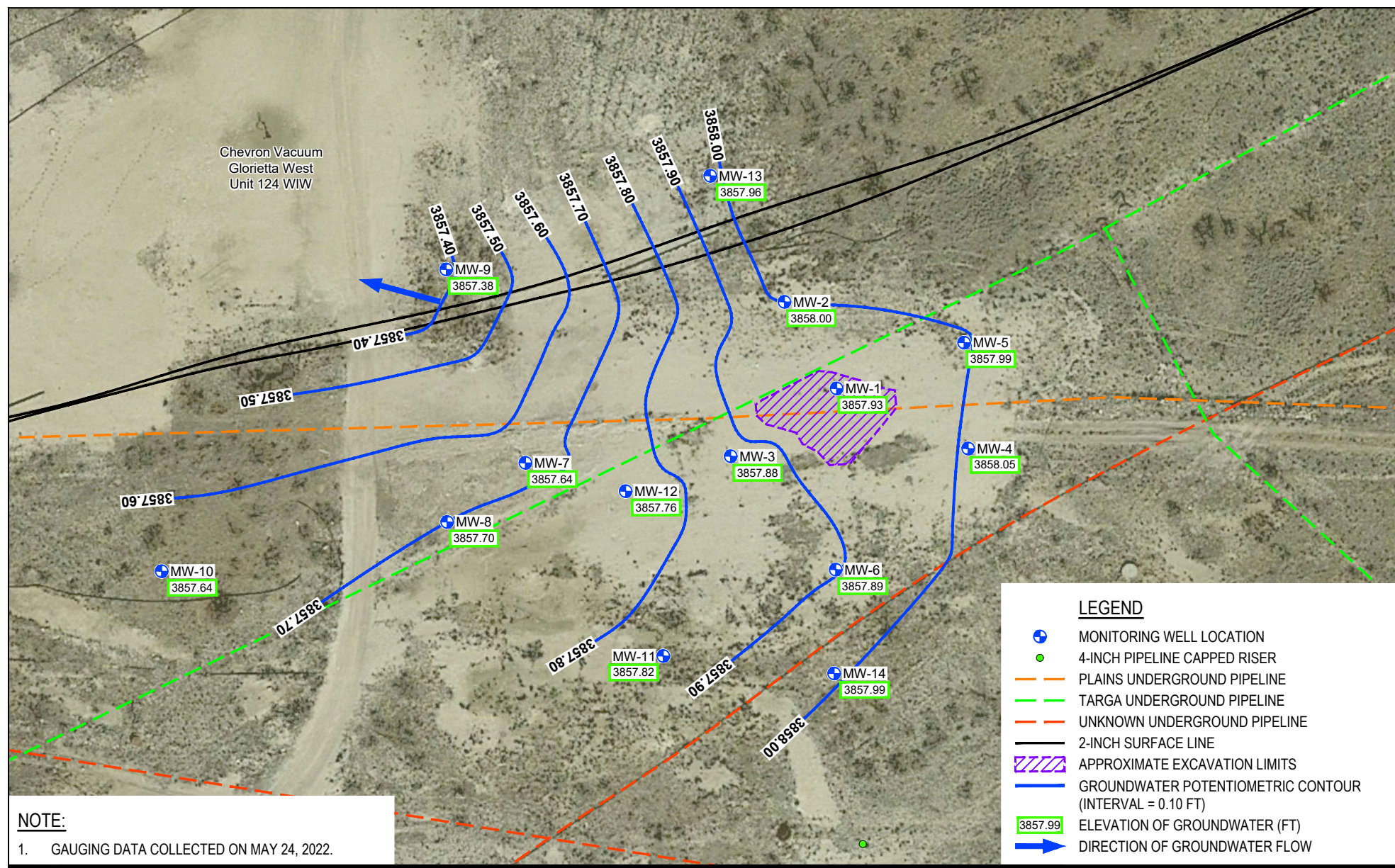


PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

GROUNDWATER GRADIENT MAP
FEBRUARY 22, 2022

Project No. **12572712**
Date **March 2023**

FIGURE 3

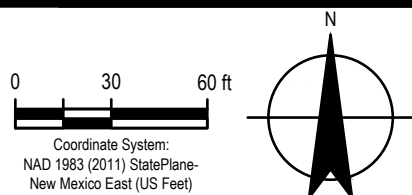
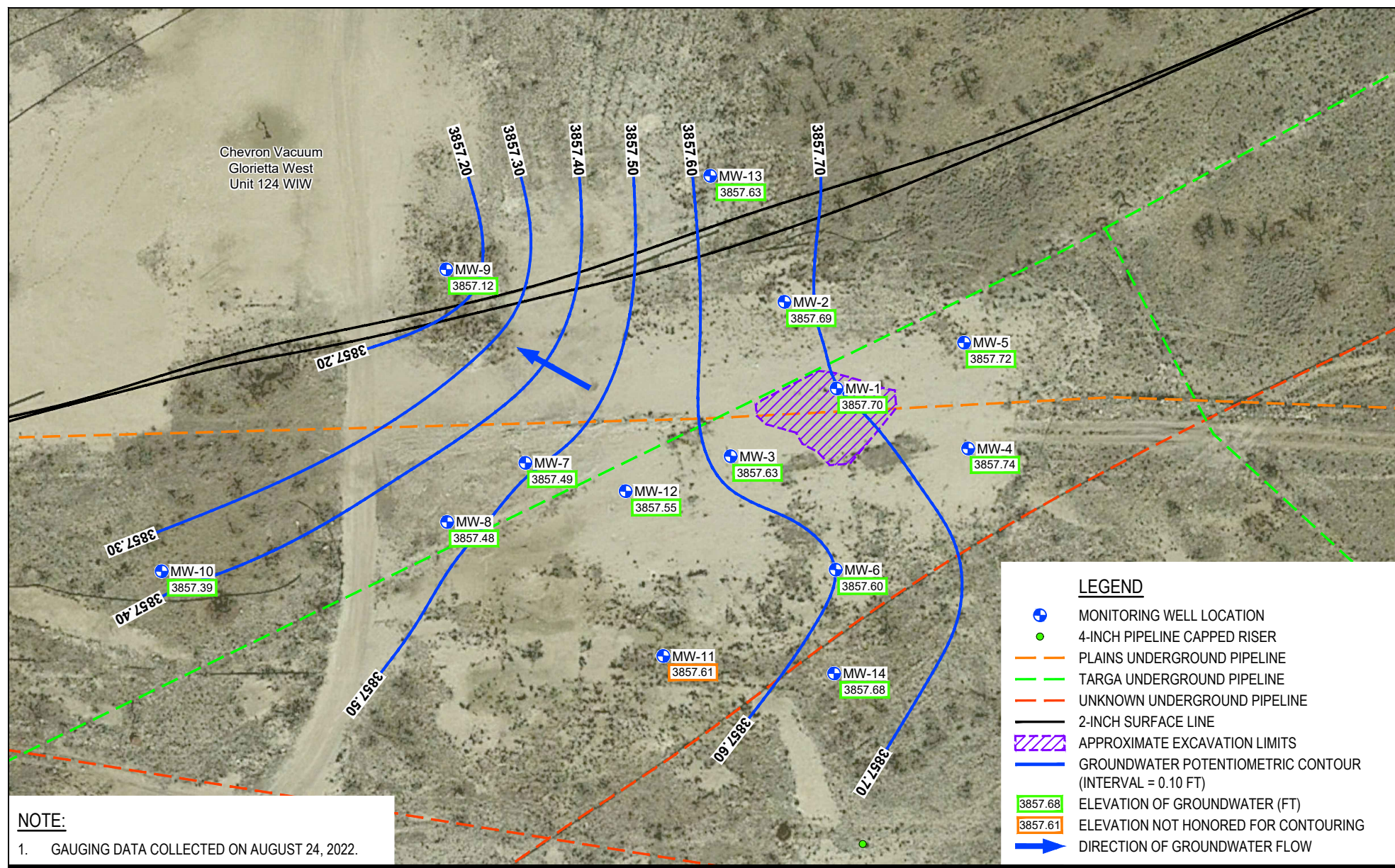


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CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

GROUNDWATER GRADIENT MAP
MAY 24, 2022

Project No. **12572712**
Date **March 2023**

FIGURE 4

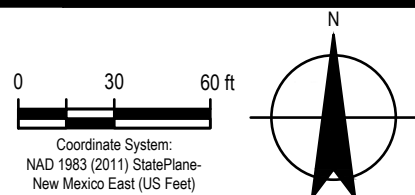
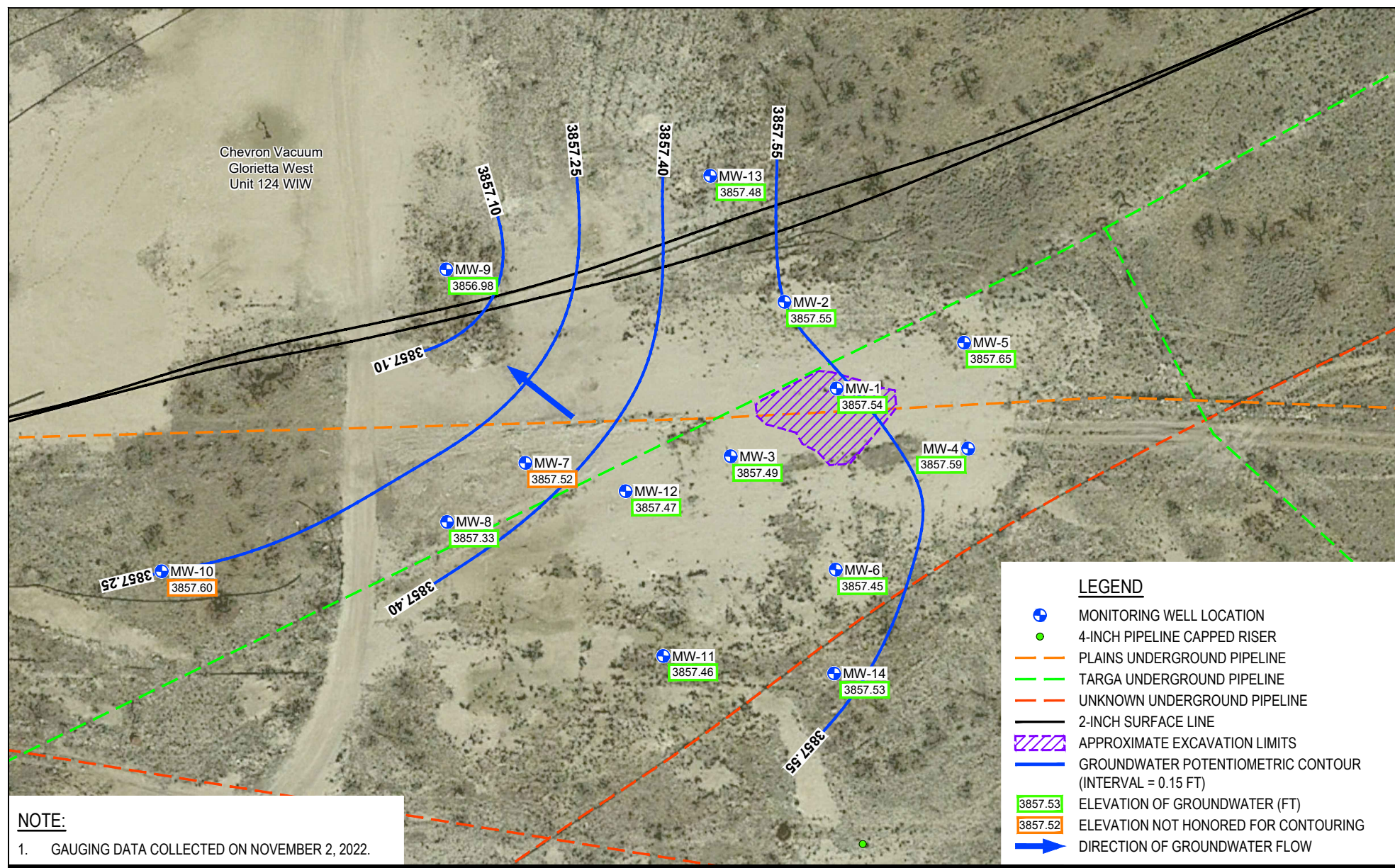


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CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

**GROUNDWATER GRADIENT MAP
AUGUST 24, 2022**

Project No. 12572712
Date March 2023

FIGURE 5

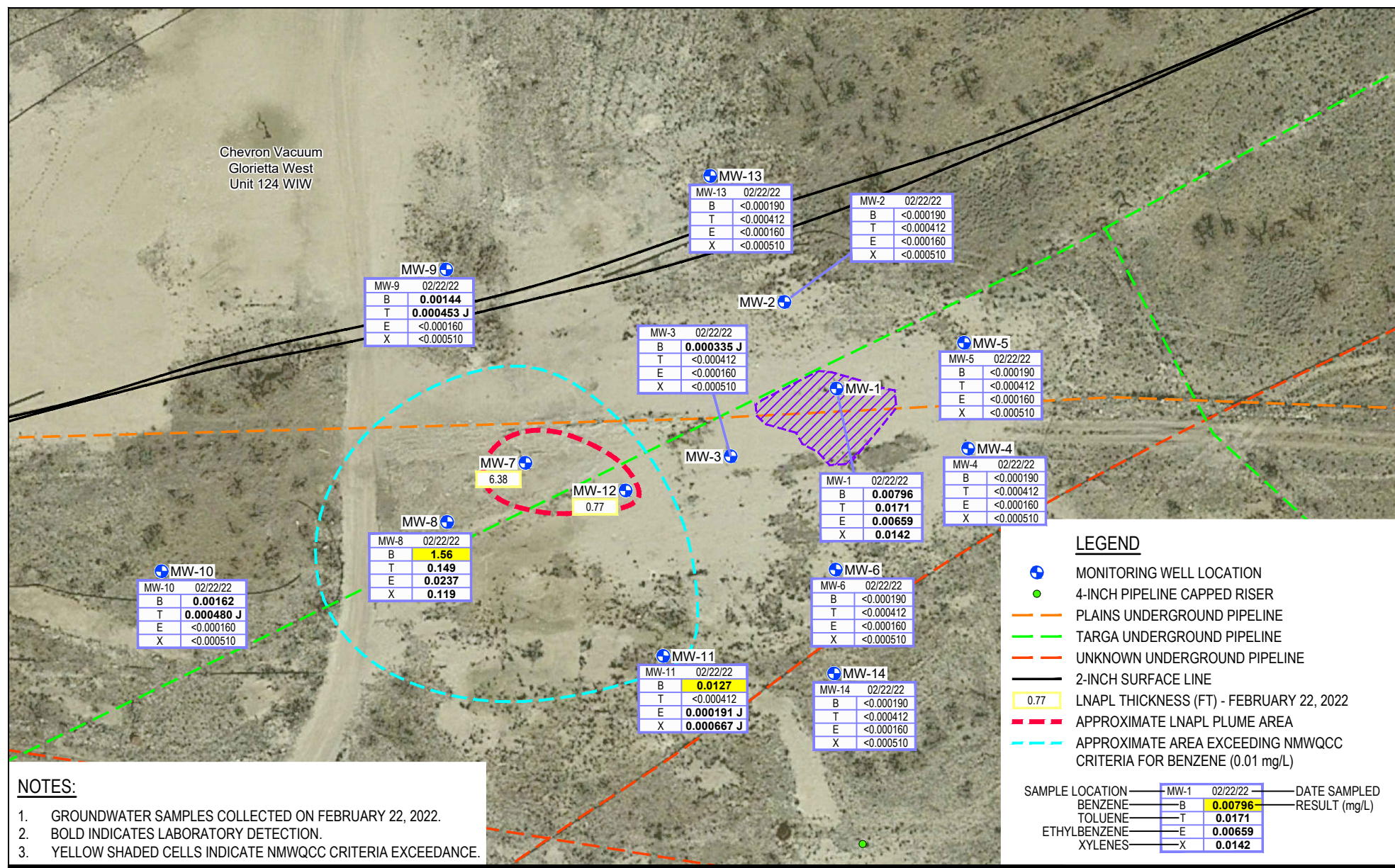


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CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637

GROUNDWATER GRADIENT MAP
NOVEMBER 2, 2022

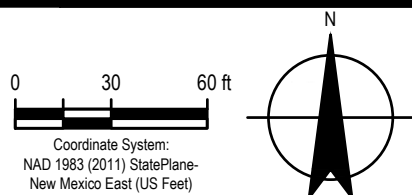
Project No. **12572712**
Date **March 2023**

FIGURE 6



NOTES:

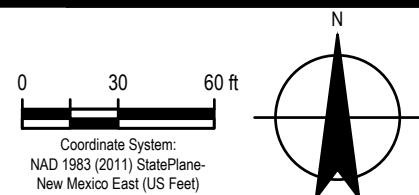
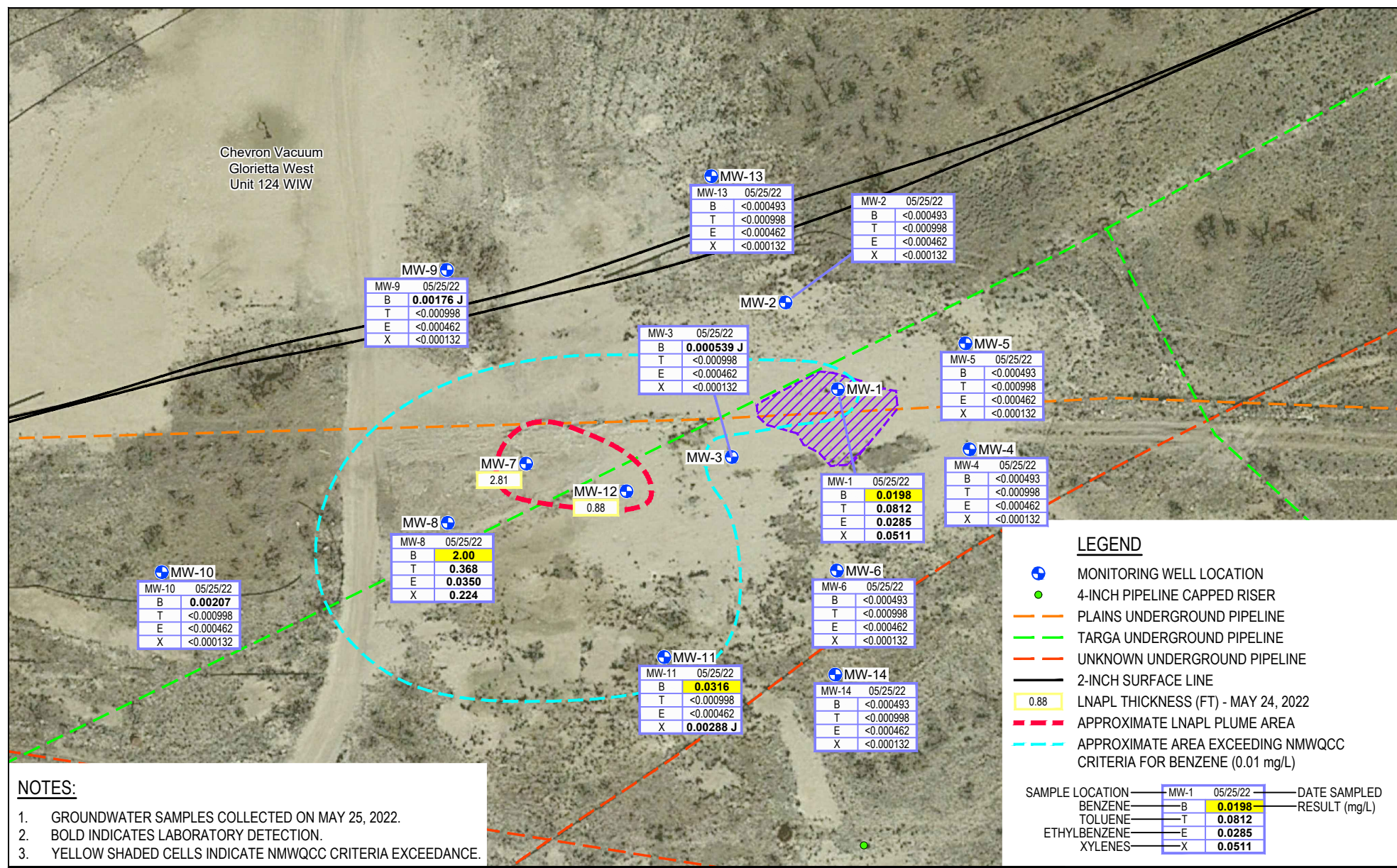
- GROUNDWATER SAMPLES COLLECTED ON FEBRUARY 22, 2022.
- BOLD INDICATES LABORATORY DETECTION.
- YELLOW SHADED CELLS INDICATE NMWQCC CRITERIA EXCEEDANCE.



PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637
**GROUNDWATER BTEX
CONCENTRATION MAP
FEBRUARY 22, 2022**

Project No. 12572712
Date March 2023

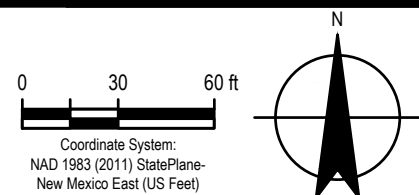
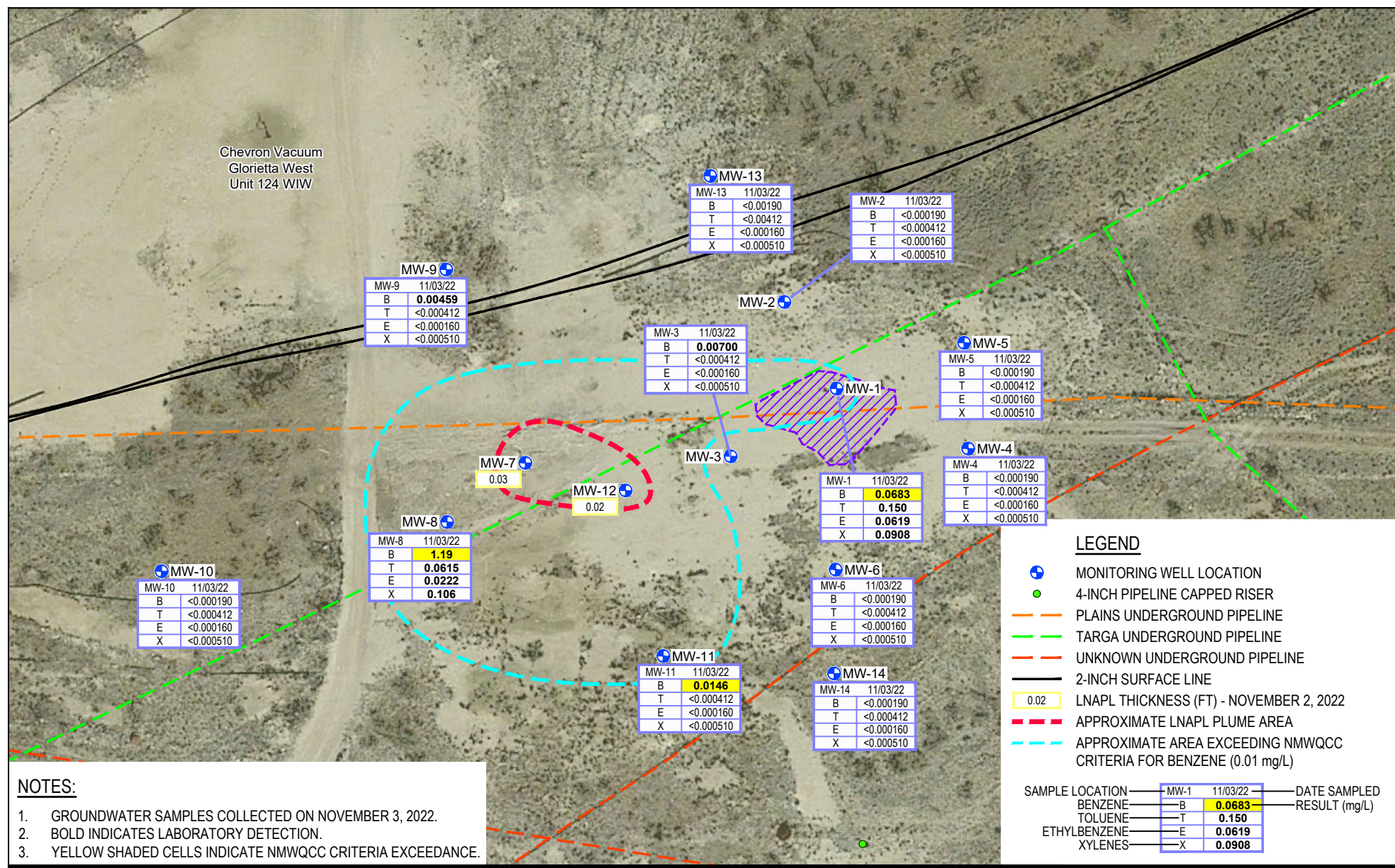
FIGURE 7



PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637
**GROUNDWATER BTEX
CONCENTRATION MAP
MAY 25, 2022**

Project No. 12572712
Date March 2023

FIGURE 8



PLAINS PIPELINE, L.P.
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
SRS CHEVRON GRAYBURG 6-INCH HISTORICAL
LEA COUNTY, NEW MEXICO
NMOCD 1RP-2637
**GROUNDWATER BTEX
CONCENTRATION MAP
NOVEMBER 3, 2022**

Project No. 12572712
Date March 2023

FIGURE 10

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-14
Revised October 10, 200

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report

☐ Final Report

Name of Company	Plains Pipeline, LP	Contact	Jason Henry
Address	2530 Hwy 214 - Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Chevron Grayburg 6-inch Sec. 6	Facility Type	Pipeline
Surface Owner	NMSLO	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter B	Section 6	Township 18S	Range 35E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	--------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude N 32.7810858° Longitude W 103.4924927°

WTR 80'

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	120 bbls	Volume Recovered	115 bbls
Source of Release	6" Steel Pipeline	Date and Hour of Occurrence	10/08/2010 @ 10:00	Date and Hour of Discovery	10/08/2010 @ 10:00
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Larry Johnson		
By Whom?	Jason Henry	Date and Hour	10/08/2010 @ 11:30		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

OCT 15

HOBBSD

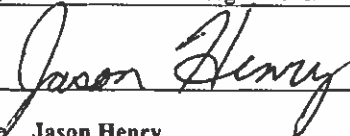
Describe Cause of Problem and Remedial Action Taken.*

Excavator struck a tee connected to the Chevron Grayburg 6" pipeline causing a release of crude oil. Throughput for the subject line is 2,000 bbls/day and the operating pressure of the pipeline is 50 psi. The depth of the pipeline at the release point is approximately 2' bgs. The H2S concentration in the crude is less than 10 ppm and the gravity of the crude is 36.

Describe Area Affected and Cleanup Action Taken.*

The released crude pooled in the trench next to the pipeline and a vac truck was used to recover the free product. The impacted area will be remediated per applicable guidelines.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Jason Henry	Approved by District Supervisor  ENVIRONMENTAL ENGINEER	
Title: Remediation Coordinator	Approval Date: 10.15.10	Expiration Date: 12.15.10
E-mail Address: jhenry@paalp.com	Conditions of Approval:	Attached ☐
Date: 10-15-2010 Phone: (575) 441-1099	SUBMIT FINAL C-141 w/DOCS BY	IRP# 10.10.2637

Attach Additional Sheets If Necessary

Appendix B

Certified Laboratory Analytical Reports



ANALYTICAL REPORT

March 02, 2022

Plains All American, LP - GHD

Sample Delivery Group: L1465434
Samples Received: 02/25/2022
Project Number: SRS CHEVRON GRAYBURG
Description: Chevron Grayburg 6-Inch Historical
Site: SRS CHEVRON GRAYBURG
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Tr: TRRP Summary	6
TRRP form R	7
TRRP form S	8
TRRP Exception Reports	9
Sr: Sample Results	10
MW-4-022222 L1465434-01	10
MW-5-022222 L1465434-02	11
MW-13-022222 L1465434-03	12
MW-14-022222 L1465434-04	13
MW-2-022222 L1465434-05	14
MW-6-022222 L1465434-06	15
MW-3-022222 L1465434-07	16
MW-9-022222 L1465434-08	17
MW-10-022222 L1465434-09	18
MW-11-022222 L1465434-10	19
MW-1-022222 L1465434-11	20
MW-8-022222 L1465434-12	21
DUP-1-022222 L1465434-13	22
Qc: Quality Control Summary	23
Volatile Organic Compounds (GC) by Method 8021B	23
Gl: Glossary of Terms	25
Al: Accreditations & Locations	26
Sc: Sample Chain of Custody	27

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

MW-4-022222 L1465434-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 02:10	02/28/22 02:10	JAH	Mt. Juliet, TN

Collected by
Ryan Livingston

Collected date/time
02/22/22 12:45

Received date/time
02/25/22 08:30

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

MW-5-022222 L1465434-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 02:31	02/28/22 02:31	JAH	Mt. Juliet, TN

Collected by
Ryan Livingston

Collected date/time
02/22/22 13:00

Received date/time
02/25/22 08:30

MW-13-022222 L1465434-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 02:53	02/28/22 02:53	JAH	Mt. Juliet, TN

Collected by
Ryan Livingston

Collected date/time
02/22/22 13:15

Received date/time
02/25/22 08:30

MW-14-022222 L1465434-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 03:15	02/28/22 03:15	JAH	Mt. Juliet, TN

Collected by
Ryan Livingston

Collected date/time
02/22/22 13:30

Received date/time
02/25/22 08:30

MW-2-022222 L1465434-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 03:37	02/28/22 03:37	JAH	Mt. Juliet, TN

Collected by
Ryan Livingston

Collected date/time
02/22/22 13:45

Received date/time
02/25/22 08:30

MW-6-022222 L1465434-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 03:58	02/28/22 03:58	JAH	Mt. Juliet, TN

Collected by
Ryan Livingston

Collected date/time
02/22/22 14:00

Received date/time
02/25/22 08:30

MW-3-022222 L1465434-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 04:20	02/28/22 04:20	JAH	Mt. Juliet, TN

Collected by
Ryan Livingston

Collected date/time
02/22/22 14:15

Received date/time
02/25/22 08:30

MW-9-022222 L1465434-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1824606	1	02/28/22 04:42	02/28/22 04:42	JAH	Mt. Juliet, TN

Collected by
Ryan Livingston

Collected date/time
02/22/22 14:30

Received date/time
02/25/22 08:30

MW-10-022222 L1465434-09 GW

Collected by
Ryan Livingston

Collected date/time
02/22/22 14:45

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 05:03	02/28/22 05:03	JAH	Mt. Juliet, TN

¹ Cp² Tc³ Ss

MW-11-022222 L1465434-10 GW

Collected by
Ryan Livingston

Collected date/time
02/22/22 15:00

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 05:25	02/28/22 05:25	JAH	Mt. Juliet, TN

⁴ Cn⁵ Tr⁶ Sr

MW-1-022222 L1465434-11 GW

Collected by
Ryan Livingston

Collected date/time
02/22/22 15:15

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 05:47	02/28/22 05:47	JAH	Mt. Juliet, TN

⁷ Qc⁸ Gl

MW-8-022222 L1465434-12 GW

Collected by
Ryan Livingston

Collected date/time
02/22/22 15:30

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 06:09	02/28/22 06:09	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1825697	20	03/02/22 10:40	03/02/22 10:40	ACG	Mt. Juliet, TN

⁹ Al¹⁰ Sc

DUP-1-022222 L1465434-13 GW

Collected by
Ryan Livingston

Collected date/time
02/22/22 00:00

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 06:31	02/28/22 06:31	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1825697	1	03/02/22 10:18	03/02/22 10:18	ACG	Mt. Juliet, TN

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



Jason Romer
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

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

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 03/02/2022 14:04					
Project Name: Chevron Grayburg 6-Inch Historical		Laboratory Job Number: L1465434-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13					
Reviewer Name: Jason Romer		Prep Batch Number(s): WG1824606 and WG1825697					
# 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: 03/02/2022 14:04				
Project Name: Chevron Grayburg 6-Inch Historical			Laboratory Job Number: L1465434-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13				
Reviewer Name: Jason Romer			Prep Batch Number(s): WG1824606 and WG1825697				
# 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

Laboratory Name: Pace Analytical National		LRC Date: 03/02/2022 14:04	
Project Name: Chevron Grayburg 6-Inch Historical		Laboratory Job Number: L1465434-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13	
Reviewer Name: Jason Romer		Prep Batch Number(s): WG1824606 and WG1825697	
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).			

Collected date/time: 02/22/22 12:45

L1465434

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	02/28/2022 02:10	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 02:10	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 02:10	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 02:10	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		02/28/2022 02:10	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 02/22/22 13:00

L1465434

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	02/28/2022 02:31	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 02:31	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 02:31	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 02:31	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		02/28/2022 02:31	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MMW-15-022222

Collected date/time: 02/22/22 13:15

L1465434

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	02/28/2022 02:53	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 02:53	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 02:53	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 02:53	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		02/28/2022 02:53	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 02/22/22 13:30

L1465434

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	02/28/2022 03:15	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 03:15	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 03:15	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 03:15	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		02/28/2022 03:15	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 02/22/22 13:45

L1465434

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	02/28/2022 03:37	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 03:37	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 03:37	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 03:37	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		02/28/2022 03:37	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MMW-0-022222

Collected date/time: 02/22/22 14:00

L1465434

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	02/28/2022 03:58	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 03:58	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 03:58	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 03:58	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		02/28/2022 03:58	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 02/22/22 14:15

L1465434

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	0.000335	J	0.000190	0.000500	0.000500	1	02/28/2022 04:20	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 04:20	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 04:20	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 04:20	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	102				79.0-125		02/28/2022 04:20	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 02/22/22 14:30

L1465434

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	0.00144		0.000190	0.000500	0.000500	1	02/28/2022 04:42	WG1824606
Toluene	0.000453	B J	0.000412	0.00100	0.00100	1	02/28/2022 04:42	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 04:42	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 04:42	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	102				79.0-125		02/28/2022 04:42	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MMW-10-022222
Collected date/time: 02/22/22 14:45

L1465434

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	0.00162		0.000190	0.000500	0.000500	1	02/28/2022 05:03	WG1824606
Toluene	0.000480	B J	0.000412	0.00100	0.00100	1	02/28/2022 05:03	WG1824606
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/28/2022 05:03	WG1824606
Total Xylene	U		0.000510	0.00150	0.00150	1	02/28/2022 05:03	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	102				79.0-125		02/28/2022 05:03	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 02/22/22 15:00

L1465434

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	0.0127		0.000190	0.000500	0.000500	1	02/28/2022 05:25	WG1824606
Toluene	U		0.000412	0.00100	0.00100	1	02/28/2022 05:25	WG1824606
Ethylbenzene	0.000191	J	0.000160	0.000500	0.000500	1	02/28/2022 05:25	WG1824606
Total Xylene	0.000667	B J	0.000510	0.00150	0.00150	1	02/28/2022 05:25	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	102				79.0-125		02/28/2022 05:25	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 02/22/22 15:15

L1465434

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	0.00796		0.000190	0.000500	0.000500	1	02/28/2022 05:47	WG1824606
Toluene	0.0171		0.000412	0.00100	0.00100	1	02/28/2022 05:47	WG1824606
Ethylbenzene	0.00659		0.000160	0.000500	0.000500	1	02/28/2022 05:47	WG1824606
Total Xylene	0.0142		0.000510	0.00150	0.00150	1	02/28/2022 05:47	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	102				79.0-125		02/28/2022 05:47	WG1824606

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 02/22/22 15:30

L1465434

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	1.56		0.00380	0.000500	0.0100	20	03/02/2022 10:40	WG1825697
Toluene	0.149		0.000412	0.00100	0.00100	1	02/28/2022 06:09	WG1824606
Ethylbenzene	0.0237		0.000160	0.000500	0.000500	1	02/28/2022 06:09	WG1824606
Total Xylene	0.119		0.000510	0.00150	0.00150	1	02/28/2022 06:09	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	96.9				79.0-125		02/28/2022 06:09	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	98.4				79.0-125		03/02/2022 10:40	WG1825697

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

DUPLICATE

Collected date/time: 02/22/22 00:00

L1465434

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	0.000388	J	0.000190	0.000500	0.000500	1	03/02/2022 10:18	WG1825697
Toluene	0.00175	B	0.000412	0.00100	0.00100	1	02/28/2022 06:31	WG1824606
Ethylbenzene	0.000415	J	0.000160	0.000500	0.000500	1	02/28/2022 06:31	WG1824606
Total Xylene	0.00304	B	0.000510	0.00150	0.00150	1	02/28/2022 06:31	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	102				79.0-125		02/28/2022 06:31	WG1824606
(S) a,a,a-Trifluorotoluene(PID)	100				79.0-125		03/02/2022 10:18	WG1825697

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

[L1465434-01,02,03,04,05,06,07,08,09,10,11,12,13](#)

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	U	0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	0.00110	U	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	

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (GC) by Method 8021B

[L1465434-12,13](#)

Method Blank (MB)

(MB) R3765504-3 03/02/22 09:22

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)	101			79.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3765504-1 03/02/22 07:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0529	106	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			99.6	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.

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

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

Report to:
Becky Haskell

Email To:
becky.haskell@ghd.com

Project Description: **Chevron Grayburg 6-Inch Historical**

City/State Collected: **Buckeye, NM**

Phone: **432-250-7917**
Fax:

Client Project #
**SRS Chevron Grayburg
6-Inch Historical**

Lab Project #
**SRS Chevron Grayburg
6-Inch Historical**

Collected by (print):

Site/Facility ID #
SRS Chevron Grayburg

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Standard TAT Per SSOW

Immediately
Packed on Ice N ____ Y ☒

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative										Chain of Custody	
MW-4-02222	G	W		2-22-22	12:45	3	3											
MW-5-02222					1300													
MW-13-02222					1315													
MW-14-02222					1330													
MW-2-02222					1345													
MW-6-02222					1300													
MW-3-02222					1415													
MW-9-02222					1430													
MW-10-02222					1445													
MW-11-02222					1500													

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

Remarks:

**1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-11209906**

Samples returned via:

____ UPS ____ FedEx ____ Courier ____

Tracking #

pH ____ Temp ____

Flow ____ Other ____

Sample Receipt Checklist

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

Relinquished by: (Signature)

Date:

2-24-22

Time:

13:00

Received by: (Signature)

2-24-22

Time:

16:00

Received by: (Signature)

2-24-22

Time:

16:00

Received for lab by: (Signature)

2-24-22

Time:

16:00

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Temp: 26.2 °C

Bottles Received: 39

Date: 2/25/22

Time: 08:00

If preservation required by Login: Date/Time

Hold:

Condition:

NCF / (OK)



ANALYTICAL REPORT

June 01, 2022

Plains All American, LP - GHD

Sample Delivery Group: L1498601
Samples Received: 05/27/2022
Project Number: 12572712/01
Description: Chevron Grayburg 6-inch Historical
Site: SRS CHEVRON GRAYBURG
Report To: Becky Haskell
2135 S Loop 250 W
Midland, TX 79703



Entire Report Reviewed By:

A handwritten signature in blue ink that reads "Brittnie Boyd".

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 Services, LLC -Dallas400 W. Bethany Drive Suite 190 Allen, TX 75013 972-727-1123 800-767-5859 www.pacenational.com

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TRRP form S	8
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MW-13 052522 L1498601-05	14
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¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

MW-2 052522 L1498601-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 22:28	05/28/22 22:28	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 10:00

Received date/time
05/27/22 08:00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

MW-4 052522 L1498601-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 22:46	05/28/22 22:46	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 10:20

Received date/time
05/27/22 08:00

MW-5 052522 L1498601-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 23:04	05/28/22 23:04	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 10:40

Received date/time
05/27/22 08:00

MW-6 052522 L1498601-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 23:22	05/28/22 23:22	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 11:00

Received date/time
05/27/22 08:00

MW-13 052522 L1498601-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 23:40	05/28/22 23:40	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 11:15

Received date/time
05/27/22 08:00

MW-14 052522 L1498601-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/28/22 23:58	05/28/22 23:58	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 11:35

Received date/time
05/27/22 08:00

MW-3 052522 L1498601-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/29/22 00:16	05/29/22 00:16	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 11:55

Received date/time
05/27/22 08:00

MW-9 052522 L1498601-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871142	1	05/29/22 00:33	05/29/22 00:33	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 12:10

Received date/time
05/27/22 08:00

MW-10 052522 L1498601-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	1	05/31/22 12:05	05/31/22 12:05	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 12:30

Received date/time
05/27/22 08:00

1
Cp

2
Tc

3
Ss

MW-1 052522 L1498601-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	1	05/31/22 12:23	05/31/22 12:23	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 13:15

Received date/time
05/27/22 08:00

4
Cn

5
Tr

6
Sr

MW-11 052522 L1498601-11 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	1	05/31/22 12:41	05/31/22 12:41	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 13:45

Received date/time
05/27/22 08:00

7
Qc

8
Gl

MW-8 052522 L1498601-12 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	1	05/31/22 12:59	05/31/22 12:59	ZST	Allen, TX
Volatile Organic Compounds (GC/MS) by Method 8260	WG1871918	10	05/31/22 17:30	05/31/22 17:30	ZST	Allen, TX

Collected by
David Fletcher

Collected date/time
05/25/22 14:35

Received date/time
05/27/22 08:00

9
Al

10
Sc

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

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

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: 06/01/2022 12:58					
Project Name: Chevron Grayburg 6-inch Historical		Laboratory Job Number: L1498601-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12					
Reviewer Name: Brittanie L Boyd		Prep Batch Number(s): WG1871142 and WG1871918					
# 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: 06/01/2022 12:58				
Project Name: Chevron Grayburg 6-inch Historical			Laboratory Job Number: L1498601-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12				
Reviewer Name: Brittanie L Boyd			Prep Batch Number(s): WG1871142 and WG1871918				
# 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

Laboratory Name: Pace Analytical National		LRC Date: 06/01/2022 12:58	
Project Name: Chevron Grayburg 6-inch Historical		Laboratory Job Number: L1498601-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12	
Reviewer Name: Brittanie L Boyd		Prep Batch Number(s): WG1871142 and WG1871918	
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).			

MW-2-052522

Collected date/time: 05/25/22 10:00

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 22:28	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 22:28	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 22:28	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 22:28	WG1871142
(S) 1,2-Dichloroethane-d4	87.9				70.0-130		05/28/2022 22:28	WG1871142
(S) 4-Bromofluorobenzene	104				70.0-130		05/28/2022 22:28	WG1871142
(S) Toluene-d8	97.3				70.0-130		05/28/2022 22:28	WG1871142

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/25/22 10:20

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 22:46	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 22:46	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 22:46	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 22:46	WG1871142
(S) 1,2-Dichloroethane-d4	89.1				70.0-130		05/28/2022 22:46	WG1871142
(S) 4-Bromofluorobenzene	105				70.0-130		05/28/2022 22:46	WG1871142
(S) Toluene-d8	96.6				70.0-130		05/28/2022 22:46	WG1871142

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/25/22 10:40

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 23:04	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 23:04	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 23:04	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 23:04	WG1871142
(S) 1,2-Dichloroethane-d4	89.1				70.0-130		05/28/2022 23:04	WG1871142
(S) 4-Bromofluorobenzene	105				70.0-130		05/28/2022 23:04	WG1871142
(S) Toluene-d8	97.2				70.0-130		05/28/2022 23:04	WG1871142

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MW-6 052522

Collected date/time: 05/25/22 11:00

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 23:22	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 23:22	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 23:22	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 23:22	WG1871142
(S) 1,2-Dichloroethane-d4	89.3				70.0-130		05/28/2022 23:22	WG1871142
(S) 4-Bromofluorobenzene	105				70.0-130		05/28/2022 23:22	WG1871142
(S) Toluene-d8	97.8				70.0-130		05/28/2022 23:22	WG1871142

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/25/22 11:15

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 23:40	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 23:40	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 23:40	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 23:40	WG1871142
(S) 1,2-Dichloroethane-d4	89.7				70.0-130		05/28/2022 23:40	WG1871142
(S) 4-Bromofluorobenzene	106				70.0-130		05/28/2022 23:40	WG1871142
(S) Toluene-d8	96.6				70.0-130		05/28/2022 23:40	WG1871142

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MW-14052522

Collected date/time: 05/25/22 11:35

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00200	0.00200	1	05/28/2022 23:58	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/28/2022 23:58	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/28/2022 23:58	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/28/2022 23:58	WG1871142
(S) 1,2-Dichloroethane-d4	90.6				70.0-130		05/28/2022 23:58	WG1871142
(S) 4-Bromofluorobenzene	104				70.0-130		05/28/2022 23:58	WG1871142
(S) Toluene-d8	96.8				70.0-130		05/28/2022 23:58	WG1871142

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/25/22 11:55

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000539	J	0.000493	0.00200	0.00200	1	05/29/2022 00:16	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/29/2022 00:16	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/29/2022 00:16	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/29/2022 00:16	WG1871142
(S) 1,2-Dichloroethane-d4	89.5				70.0-130		05/29/2022 00:16	WG1871142
(S) 4-Bromofluorobenzene	106				70.0-130		05/29/2022 00:16	WG1871142
(S) Toluene-d8	96.8				70.0-130		05/29/2022 00:16	WG1871142

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/25/22 12:10

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00176	J	0.000493	0.00200	0.00200	1	05/29/2022 00:33	WG1871142
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/29/2022 00:33	WG1871142
Toluene	U		0.000998	0.00500	0.00500	1	05/29/2022 00:33	WG1871142
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/29/2022 00:33	WG1871142
(S) 1,2-Dichloroethane-d4	90.5				70.0-130		05/29/2022 00:33	WG1871142
(S) 4-Bromofluorobenzene	101				70.0-130		05/29/2022 00:33	WG1871142
(S) Toluene-d8	97.1				70.0-130		05/29/2022 00:33	WG1871142

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/25/22 12:30

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00207		0.000493	0.00200	0.00200	1	05/31/2022 12:05	WG1871918
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/31/2022 12:05	WG1871918
Toluene	U		0.000998	0.00500	0.00500	1	05/31/2022 12:05	WG1871918
Xylenes, Total	U		0.00132	0.00600	0.00600	1	05/31/2022 12:05	WG1871918
(S) 1,2-Dichloroethane-d4	85.1				70.0-130		05/31/2022 12:05	WG1871918
(S) 4-Bromofluorobenzene	104				70.0-130		05/31/2022 12:05	WG1871918
(S) Toluene-d8	97.2				70.0-130		05/31/2022 12:05	WG1871918

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MW-1052522

Collected date/time: 05/25/22 13:15

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0198		0.000493	0.00200	0.00200	1	05/31/2022 12:23	WG1871918
Ethylbenzene	0.0285		0.000462	0.00200	0.00200	1	05/31/2022 12:23	WG1871918
Toluene	0.0812		0.000998	0.00500	0.00500	1	05/31/2022 12:23	WG1871918
Xylenes, Total	0.0511		0.00132	0.00600	0.00600	1	05/31/2022 12:23	WG1871918
(S) 1,2-Dichloroethane-d4	86.5				70.0-130		05/31/2022 12:23	WG1871918
(S) 4-Bromofluorobenzene	102				70.0-130		05/31/2022 12:23	WG1871918
(S) Toluene-d8	97.2				70.0-130		05/31/2022 12:23	WG1871918

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/25/22 13:45

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0316		0.000493	0.00200	0.00200	1	05/31/2022 12:41	WG1871918
Ethylbenzene	U		0.000462	0.00200	0.00200	1	05/31/2022 12:41	WG1871918
Toluene	U		0.000998	0.00500	0.00500	1	05/31/2022 12:41	WG1871918
Xylenes, Total	0.00288	J	0.00132	0.00600	0.00600	1	05/31/2022 12:41	WG1871918
(S) 1,2-Dichloroethane-d4	86.3				70.0-130		05/31/2022 12:41	WG1871918
(S) 4-Bromofluorobenzene	102				70.0-130		05/31/2022 12:41	WG1871918
(S) Toluene-d8	96.6				70.0-130		05/31/2022 12:41	WG1871918

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 05/25/22 14:35

L1498601

Volatile Organic Compounds (GC/MS) by Method 8260

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	2.00		0.00493	0.00200	0.0200	10	05/31/2022 17:30	WG1871918
Ethylbenzene	0.0350		0.000462	0.00200	0.00200	1	05/31/2022 12:59	WG1871918
Toluene	0.368		0.00998	0.00500	0.0500	10	05/31/2022 17:30	WG1871918
Xylenes, Total	0.224		0.00132	0.00600	0.00600	1	05/31/2022 12:59	WG1871918
(S) 1,2-Dichloroethane-d4	88.6				70.0-130		05/31/2022 17:30	WG1871918
(S) 1,2-Dichloroethane-d4	86.7				70.0-130		05/31/2022 12:59	WG1871918
(S) 4-Bromofluorobenzene	103				70.0-130		05/31/2022 12:59	WG1871918
(S) 4-Bromofluorobenzene	102				70.0-130		05/31/2022 17:30	WG1871918
(S) Toluene-d8	96.6				70.0-130		05/31/2022 17:30	WG1871918
(S) Toluene-d8	97.8				70.0-130		05/31/2022 12:59	WG1871918

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3797477-2 05/28/22 19:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000493	0.00200
Ethylbenzene	U		0.000462	0.00200
Toluene	U		0.000998	0.00500
Xylenes, Total	U		0.00132	0.00600
(S) 1,2-Dichloroethane-d4	84.4			70.0-130
(S) 4-Bromofluorobenzene	104			70.0-130
(S) Toluene-d8	97.4			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3797477-1 05/28/22 18:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0200	0.0192	96.0	73.0-131	
Ethylbenzene	0.0200	0.0211	105	76.0-129	
Toluene	0.0200	0.0194	97.0	73.0-130	
Xylenes, Total	0.0600	0.0602	100	78.0-124	
(S) 1,2-Dichloroethane-d4			83.0	70.0-130	
(S) 4-Bromofluorobenzene			104	70.0-130	
(S) Toluene-d8			97.2	70.0-130	

L1498754-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498754-07 05/28/22 20:58 • (MS) R3797477-3 05/28/22 19:47 • (MSD) R3797477-4 05/28/22 20:05

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	0.0200	U	0.0178	0.0172	89.0	86.0	1	74.0-130			3.43	20
Ethylbenzene	0.0200	U	0.0194	0.0190	97.0	95.0	1	77.0-127			2.08	20
Toluene	0.0200	U	0.0177	0.0174	88.5	87.0	1	74.0-127			1.71	20
Xylenes, Total	0.0600	U	0.0557	0.0546	92.8	91.0	1	71.0-133			1.99	20
(S) 1,2-Dichloroethane-d4					84.2	84.1		70.0-130				
(S) 4-Bromofluorobenzene					104	104		70.0-130				
(S) Toluene-d8					96.4	97.4		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (GC/MS) by Method 8260

L1498601-09,10,11,12

Method Blank (MB)

(MB) R3797973-2 05/31/22 09:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000493	0.00200
Ethylbenzene	U		0.000462	0.00200
Toluene	U		0.000998	0.00500
Xylenes, Total	U		0.00132	0.00600
(S) 1,2-Dichloroethane-d4	86.6			70.0-130
(S) 4-Bromofluorobenzene	103			70.0-130
(S) Toluene-d8	96.0			70.0-130

1
Cp

2
Tc

3
Ss

4
Cn

5
Tr

6
Sr

7
Qc

8
Gl

9
Al

10
Sc

Laboratory Control Sample (LCS)

(LCS) R3797973-1 05/31/22 08:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0200	0.0192	96.0	73.0-131	
Ethylbenzene	0.0200	0.0207	104	76.0-129	
Toluene	0.0200	0.0189	94.5	73.0-130	
Xylenes, Total	0.0600	0.0592	98.7	78.0-124	
(S) 1,2-Dichloroethane-d4			85.6	70.0-130	
(S) 4-Bromofluorobenzene			102	70.0-130	
(S) Toluene-d8			96.7	70.0-130	

L1498601-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498601-09 05/31/22 12:05 • (MS) R3797973-3 05/31/22 11:11 • (MSD) R3797973-4 05/31/22 11:29

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	0.0200	0.00207	0.0195	0.0187	87.2	83.2	1	74.0-130			4.19	20
Ethylbenzene	0.0200	U	0.0195	0.0188	97.5	94.0	1	77.0-127			3.66	20
Toluene	0.0200	U	0.0176	0.0170	88.0	85.0	1	74.0-127			3.47	20
Xylenes, Total	0.0600	U	0.0557	0.0539	92.8	89.8	1	71.0-133			3.28	20
(S) 1,2-Dichloroethane-d4					84.7	84.9		70.0-130				
(S) 4-Bromofluorobenzene					103	103		70.0-130				
(S) Toluene-d8					96.6	96.2		70.0-130				

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.
---	---



ACCREDITATIONS & LOCATIONS

Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-22-35
Iowa	408	Oklahoma	8727
Louisiana	30686		

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

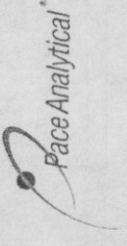
Chain of Custody

Released to Imaging: 6/6/2023 11:05:41 AM

0800

Chain of Custody

Released to Imaging: 6/6/2023 11:05:41 AM

	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office
	Sample Condition Upon Receipt ☒ Dallas ☐ Ft Worth ☐ Corpus Christi ☐ Austin	

Sample Condition Upon Receipt

Client Name: Plains AU Project Work order (place label):
 Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other: GH
 Tracking #: _____

Custody Seal on Cooler/Box: Yes ☐ No ☒
 Received on ice: Wet ☒ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: IR-17

Cooler Temp °C: 2.7 (Recorded) -0.3 (Correction Factor) 2.4 (Actual)
 Receiving Lab 2 Thermometer Used: _____ Cooler Temp °C: _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: SM Date: 5/27/22

Chain of Custody relinquished	Yes ☒ No ☐
Sampler name & signature on COC	Yes ☒ No ☐
Short HT analyses (<72 hrs)	Yes ☐ No ☒

Login Person: SM Date: 5/27/22

Sufficient Volume received	Yes ☒ No ☐
Correct Container used	Yes ☒ No ☐
Container Intact	Yes ☒ No ☐
Sample pH Acceptable	Yes ☐ No ☐ NA ☒
pH Strips: _____	
Residual Chlorine Present	Yes ☐ No ☐ NA ☒
Cl Strips: _____	
Sulfide Present	Yes ☐ No ☐ NA ☒
Lead Acetate Strips: _____	
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☒
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☒
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☒
Project sampled in USDA Regulated Area outside of Texas	Yes ☐ No ☐ NA ☒
State Sampled: _____	
Non-Conformance(s): _____	Yes ☐ No ☒

Labeling Person (if different than log-in): _____ Date: _____

PRI PPD

26MAY22 02:22P

** LABEL **

Pcs: 1 of 2

Sched: GLI 1454
DALLAS, TX

GLI 3090192116



From:

PACE ANALYTICAL WEST TEXAS
972-727-1123

RECV:

PACE ANALYTICAL WEST TEXAS
DELIVERY

Manual Wght:

100.0

Tariff Wght:

100.0

PO/Ref #:

DALLAS, TX 75202

Phone: 432-202-4238

Priority

Agency Phone: (214)747-8859

WWW.SHIPGREYHOUND.COM

PRI PPD

26MAY22 02:22P

** ORIGIN **

Pcs: 1 of 2

Sched: GLI 1454

GLI 3090192116



From: ODESSA MIDLAND, TX

To: DALLAS, TX

Priority

P EXPRS	\$ 32.00	C EXPRS
P VALUE		C VALUE

SHIPMENT MANIFEST

Carrier/

Dep.

Sched #:

Bus #:

Time:

Service: Priority

Pieces: 2

1st Lane Segment:

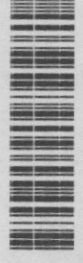
Transfer:

ODESSA MIDLAND

DALLAS

GLI 1454

Destination: DALLAS, TX



GLI 3090192116

Driver's Signature: _____



ANALYTICAL REPORT

September 26, 2022

Plains All American, LP - GHD

Sample Delivery Group: L1536171
Samples Received: 09/15/2022
Project Number: SRS CHEVRON GRAYBURG
Description: Chevron Grayburg 6-Inch Historical
Site: SRS CHEVRON GRAYBURG
Report To: Matthew Laughlin
2135 S Loop 250 W
Midland, TX 79703



Entire Report Reviewed By:

A handwritten signature in blue ink that reads "Brittnie Boyd".

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

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

MW-9-091322 L1536171-01 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 11:50

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 10:46	09/17/22 10:46	BAM	Mt. Juliet, TN

¹Cp

²Tc

³Ss

MW-13-091322 L1536171-02 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 12:00

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 11:08	09/17/22 11:08	BAM	Mt. Juliet, TN

⁴Cn

⁵Tr

⁶Sr

MW-10-091322 L1536171-03 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 12:10

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 12:08	09/17/22 12:08	BAM	Mt. Juliet, TN

⁷Qc

⁸Gl

MW-2-091322 L1536171-04 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 12:20

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 12:30	09/17/22 12:30	BAM	Mt. Juliet, TN

⁹Al

¹⁰Sc

MW-1-091322 L1536171-05 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 12:30

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 12:51	09/17/22 12:51	BAM	Mt. Juliet, TN

MW-3-091322 L1536171-06 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 12:40

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 13:13	09/17/22 13:13	BAM	Mt. Juliet, TN

MW-4-091322 L1536171-07 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 13:00

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 13:34	09/17/22 13:34	BAM	Mt. Juliet, TN

MW-6-091322 L1536171-08 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 13:10

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 13:56	09/17/22 13:56	BAM	Mt. Juliet, TN

MW-11-091322 L1536171-09 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 13:20

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 14:17	09/17/22 14:17	BAM	Mt. Juliet, TN

¹ Cp² Tc³ Ss

MW-14-091322 L1536171-10 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 13:30

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 14:39	09/17/22 14:39	BAM	Mt. Juliet, TN

⁴ Cn⁵ Tr⁶ Sr

MW-8-091322 L1536171-11 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 12:40

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 15:00	09/17/22 15:00	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1930104	25	09/22/22 10:34	09/22/22 10:34	BAM	Mt. Juliet, TN

⁷ Qc⁸ Gl⁹ Al

MW-5-091322 L1536171-12 GW

Collected by
Matthew Laughlin

Collected date/time
09/13/22 12:50

Received date/time
09/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1927723	1	09/17/22 15:22	09/17/22 15:22	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1930104	1	09/22/22 09:50	09/22/22 09:50	BAM	Mt. Juliet, TN

¹⁰ Sc

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

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

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: 09/26/2022 10:04					
Project Name: Chevron Grayburg 6-Inch Historical		Laboratory Job Number: L1536171-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12					
Reviewer Name: Brittanie L Boyd		Prep Batch Number(s): WG1927723 and WG1930104					
# 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 10:04				
Project Name: Chevron Grayburg 6-Inch Historical			Laboratory Job Number: L1536171-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12				
Reviewer Name: Brittanie L Boyd			Prep Batch Number(s): WG1927723 and WG1930104				
#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

Laboratory Name: Pace Analytical National		LRC Date: 09/26/2022 10:04	
Project Name: Chevron Grayburg 6-Inch Historical		Laboratory Job Number: L1536171-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12	
Reviewer Name: Brittanie L Boyd		Prep Batch Number(s): WG1927723 and WG1930104	
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).			

MMW-9-091922
Collected date/time: 09/13/22 11:50

L1536171

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	09/17/2022 10:46	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 10:46	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 10:46	WG1927723
Total Xylene (S) a,a,a-Trifluorotoluene(PID)	U 96.7		0.000510	0.00150	0.00150 79.0-125	1	09/17/2022 10:46 09/17/2022 10:46	WG1927723 WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MW-154091322

Collected date/time: 09/13/22 12:00

L1536171

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	09/17/2022 11:08	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 11:08	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 11:08	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 11:08	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	97.1				79.0-125		09/17/2022 11:08	WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/13/22 12:10

L1536171

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	09/17/2022 12:08	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 12:08	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 12:08	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 12:08	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	97.5				79.0-125		09/17/2022 12:08	WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MMW-2-091922
Collected date/time: 09/13/22 12:20

L1536171

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	09/17/2022 12:30	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 12:30	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 12:30	WG1927723
Total Xylene (S) a,a,a-Trifluorotoluene(PID)	U 96.5		0.000510	0.00150	0.00150 79.0-125	1	09/17/2022 12:30 09/17/2022 12:30	WG1927723 WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MMW-1-091522
Collected date/time: 09/13/22 12:30

L1536171

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	0.0458		0.000190	0.000500	0.000500	1	09/17/2022 12:51	WG1927723
Toluene	0.0675		0.000412	0.00100	0.00100	1	09/17/2022 12:51	WG1927723
Ethylbenzene	0.0260		0.000160	0.000500	0.000500	1	09/17/2022 12:51	WG1927723
Total Xylene	0.0532		0.000510	0.00150	0.00150	1	09/17/2022 12:51	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	95.7				79.0-125		09/17/2022 12:51	WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/13/22 12:40

L1536171

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	09/17/2022 13:13	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 13:13	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 13:13	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 13:13	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	96.5				79.0-125		09/17/2022 13:13	WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/13/22 13:00

L1536171

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	09/17/2022 13:34	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 13:34	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 13:34	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 13:34	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	96.0				79.0-125		09/17/2022 13:34	WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MW-0-091322

Collected date/time: 09/13/22 13:10

L1536171

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	09/17/2022 13:56	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 13:56	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 13:56	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 13:56	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	98.6				79.0-125		09/17/2022 13:56	WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MMW-11-091322
Collected date/time: 09/13/22 13:20

L1536171

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	0.00570		0.000190	0.000500	0.000500	1	09/17/2022 14:17	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 14:17	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 14:17	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 14:17	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	96.7				79.0-125		09/17/2022 14:17	WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MW-144091322

Collected date/time: 09/13/22 13:30

L1536171

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	09/17/2022 14:39	WG1927723
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 14:39	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 14:39	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 14:39	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	96.8				79.0-125		09/17/2022 14:39	WG1927723

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MW-8-091922

Collected date/time: 09/13/22 12:40

L1536171

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	2.14		0.00475	0.000500	0.0125	25	09/22/2022 10:34	WG1930104
Toluene	0.470		0.0103	0.00100	0.0250	25	09/22/2022 10:34	WG1930104
Ethylbenzene	0.0322		0.000160	0.000500	0.000500	1	09/17/2022 15:00	WG1927723
Total Xylene	0.217		0.000510	0.00150	0.00150	1	09/17/2022 15:00	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	91.0				79.0-125		09/17/2022 15:00	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	96.5				79.0-125		09/22/2022 10:34	WG1930104

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

MMW-5-091922

Collected date/time: 09/13/22 12:50

L1536171

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	09/22/2022 09:50	WG1930104
Toluene	U		0.000412	0.00100	0.00100	1	09/17/2022 15:22	WG1927723
Ethylbenzene	U		0.000160	0.000500	0.000500	1	09/17/2022 15:22	WG1927723
Total Xylene	U		0.000510	0.00150	0.00150	1	09/17/2022 15:22	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	94.5				79.0-125		09/17/2022 15:22	WG1927723
(S) a,a,a-Trifluorotoluene(PID)	96.8				79.0-125		09/22/2022 09:50	WG1930104

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3839755-3 09/17/22 07:12

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) R3839755-1 09/17/22 05:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0485	97.0	77.0-122	
Toluene	0.0500	0.0469	93.8	80.0-121	
Ethylbenzene	0.0500	0.0487	97.4	80.0-123	
Total Xylene	0.150	0.145	96.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			97.6	79.0-125	

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (GC) by Method 8021B

[L1536171-11,12](#)

Method Blank (MB)

(MB) R3840808-3 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
(S) a,a,a-Trifluorotoluene(PID)	97.9			79.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3840808-1 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	
(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.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

2135 S Loop 250 W
Midland, TX 79703Billing Information:
Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705Pres
Chk

Analysis / Container / Preservative

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859Report to:
Matthew LaughlinEmail to:
Matthew.laughlin@ghd.comProject: Chevron Grayburg 6-Inch Historical
Description:City/State
Collected: Buckeye, NMPhone: 432-640-9715
Fax:Client Project #
SRS Chevron Grayburg
6-Inch HistoricalLab Project #
SRS Chevron Grayburg
6-Inch Historical

Collected by (print):

Site/Facility ID #
SRS Chevron Grayburg

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

Standard TAT Per SSOW

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
MW-9-091322	6	W	-	09/12/22	1150	3
MW-13-091322					1200	
MW-10-091322					1210	
MW-2-091322					1230	
MW-1-091322					1230	
MW-3-091322					1240	
MW-4-091322					1300	
MW-6-091322					1310	
MW-11-091322					1330	
MW-14-091322					1330	

BTEX 40m Lamb-HCL

* 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 #: PLAINS GHD-11209906

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Do NOT
bill Plains

pH Temp

Flow Other

Sample Receipt Checklist

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

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes/No
HCL/MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:
1.0+0=1.0 36

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

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

Hold:

Condition:
NCF / OK

Page 130 of 165

Remarks	Sample # (lab only)
---------	---------------------

Condition:

NCF / OK

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



ANALYTICAL REPORT

November 11, 2022

Plains All American, LP - GHD

Sample Delivery Group: L1554627
Samples Received: 11/05/2022
Project Number: 12572712/01
Description: Chevron Grayburd 6-Inch Sec. 6 Historical
Site: CHEVRON GRAYBURG 6-INCH HISTOR
Report To: John Ferguson
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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

GB-DUP-1-110322 L1554627-01 GW

Collected by Mitchell Clemens
Collected date/time 11/03/22 00:00
Received date/time 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 07:07	11/09/22 07:07	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1957757	100	11/11/22 02:21	11/11/22 02:21	BAM	Mt. Juliet, TN

¹ Cp² Tc³ Ss

GB-MW-10-110322 L1554627-02 GW

Collected by Mitchell Clemens
Collected date/time 11/03/22 15:30
Received date/time 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 07:29	11/09/22 07:29	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1957757	1	11/11/22 01:15	11/11/22 01:15	BAM	Mt. Juliet, TN

⁴ Cn⁵ Tr⁶ Sr

GB-MW-11-110322 L1554627-03 GW

Collected by Mitchell Clemens
Collected date/time 11/03/22 15:35
Received date/time 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 07:51	11/09/22 07:51	BAM	Mt. Juliet, TN

⁷ Qc⁸ Gl⁹ Al

TRIP BLANK L1554627-04 GW

Collected by Mitchell Clemens
Collected date/time 11/03/22 00:00
Received date/time 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 06:45	11/09/22 06:45	BAM	Mt. Juliet, TN

¹⁰ Sc

GB-MW-14-110322 L1554627-05 GW

Collected by Mitchell Clemens
Collected date/time 11/03/22 10:15
Received date/time 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 08:13	11/09/22 08:13	BAM	Mt. Juliet, TN

GB-MW-6-110322 L1554627-06 GW

Collected by Mitchell Clemens
Collected date/time 11/03/22 10:20
Received date/time 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 08:35	11/09/22 08:35	BAM	Mt. Juliet, TN

GB-MW-1-110322 L1554627-07 GW

Collected by Mitchell Clemens
Collected date/time 11/03/22 11:40
Received date/time 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 08:58	11/09/22 08:58	BAM	Mt. Juliet, TN

GB-MW-5-110322 L1554627-08 GW

Collected by Mitchell Clemens
Collected date/time 11/03/22 11:45
Received date/time 11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 09:20	11/09/22 09:20	BAM	Mt. Juliet, TN

GB-MW-2-110322 L1554627-09 GW

Collected by
Mitchell Clemens

Collected date/time
11/03/22 12:25

Received date/time
11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 09:42	11/09/22 09:42	BAM	Mt. Juliet, TN

¹Cp²Tc³Ss

GB-MW-4-110322 L1554627-10 GW

Collected by
Mitchell Clemens

Collected date/time
11/03/22 12:40

Received date/time
11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 10:04	11/09/22 10:04	BAM	Mt. Juliet, TN

⁴Cn⁵Tr⁶Sr

GB-MW-3-110322 L1554627-11 GW

Collected by
Mitchell Clemens

Collected date/time
11/03/22 13:40

Received date/time
11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 10:26	11/09/22 10:26	BAM	Mt. Juliet, TN

⁷Qc⁸Gl

GB-MW-13-110322 L1554627-12 GW

Collected by
Mitchell Clemens

Collected date/time
11/03/22 13:45

Received date/time
11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 10:48	11/09/22 10:48	BAM	Mt. Juliet, TN

⁹Al¹⁰Sc

GB-MW-9-110322 L1554627-13 GW

Collected by
Mitchell Clemens

Collected date/time
11/03/22 14:45

Received date/time
11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1956398	1	11/09/22 11:10	11/09/22 11:10	BAM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1955343	1	11/08/22 08:00	11/08/22 20:48	AMG	Mt. Juliet, TN

GB-MW-8-110322 L1554627-14 GW

Collected by
Mitchell Clemens

Collected date/time
11/03/22 14:50

Received date/time
11/05/22 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1957757	10	11/11/22 01:59	11/11/22 01:59	BAM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1955343	1	11/08/22 08:00	11/08/22 21:05	AMG	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

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

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: 11/11/2022 14:53					
Project Name: Cheveron Grayburd 6-Inch Sec. 6 Historical		Laboratory Job Number: L1554627-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14					
Reviewer Name: Brittanie L Boyd		Prep Batch Number(s): WG1955343, WG1956398 and WG1957757					
# 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: 11/11/2022 14:53					
Project Name: Cheveron Grayburd 6-Inch Sec. 6 Historical		Laboratory Job Number: L1554627-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14					
Reviewer Name: Brittanie L Boyd		Prep Batch Number(s): WG1955343, WG1956398 and WG1957757					
# 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

Laboratory Name: Pace Analytical National		LRC Date: 11/11/2022 14:53	
Project Name: Chevron Grayburd 6-Inch Sec. 6 Historical		Laboratory Job Number: L1554627-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14	
Reviewer Name: Brittanie L Boyd		Prep Batch Number(s): WG1955343, WG1956398 and WG1957757	
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).			

Collected date/time: 11/03/22 00:00

L1554627

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	1.44		0.0190	0.000500	0.0500	100	11/11/2022 02:21	WG1957757
Toluene	0.110		0.000412	0.00100	0.00100	1	11/09/2022 07:07	WG1956398
Ethylbenzene	0.0276		0.000160	0.000500	0.000500	1	11/09/2022 07:07	WG1956398
Total Xylene	0.132		0.000510	0.00150	0.00150	1	11/09/2022 07:07	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	107				79.0-125		11/09/2022 07:07	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		11/11/2022 02:21	WG1957757

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 11/03/22 15:30

L1554627

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	11/11/2022 01:15	WG1957757
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 07:29	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 07:29	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 07:29	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	102				79.0-125		11/09/2022 07:29	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	104				79.0-125		11/11/2022 01:15	WG1957757

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

Collected date/time: 11/03/22 15:35

L1554627

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	0.0146		0.000190	0.000500	0.000500	1	11/09/2022 07:51	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 07:51	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 07:51	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 07:51	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	101				79.0-125		11/09/2022 07:51	WG1956398

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 11/03/22 00:00

L1554627

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	11/09/2022 06:45	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 06:45	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 06:45	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 06:45	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	101				79.0-125		11/09/2022 06:45	WG1956398

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 11/03/22 10:15

L1554627

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	11/09/2022 08:13	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 08:13	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 08:13	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 08:13	WG1956398
(S) o,a,a-Trifluorotoluene(PID)	101				79.0-125		11/09/2022 08:13	WG1956398

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	11/09/2022 08:35	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 08:35	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 08:35	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 08:35	WG1956398
(S) o,a,a-Trifluorotoluene(PID)	101				79.0-125		11/09/2022 08:35	WG1956398

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 11/03/22 11:40

L1554627

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	0.0683		0.000190	0.000500	0.000500	1	11/09/2022 08:58	WG1956398
Toluene	0.150		0.000412	0.00100	0.00100	1	11/09/2022 08:58	WG1956398
Ethylbenzene	0.0619		0.000160	0.000500	0.000500	1	11/09/2022 08:58	WG1956398
Total Xylene	0.0908		0.000510	0.00150	0.00150	1	11/09/2022 08:58	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		11/09/2022 08:58	WG1956398

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ 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	11/09/2022 09:20	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 09:20	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 09:20	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 09:20	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	101				79.0-125		11/09/2022 09:20	WG1956398

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 11/03/22 12:25

L1554627

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	11/09/2022 09:42	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 09:42	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 09:42	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 09:42	WG1956398
(S) o,a,a-Trifluorotoluene(PID)	102				79.0-125		11/09/2022 09:42	WG1956398

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	11/09/2022 10:04	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 10:04	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 10:04	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 10:04	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	101				79.0-125		11/09/2022 10:04	WG1956398

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

GB-MW-3-110322

Collected date/time: 11/03/22 13:40

L1554627

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	0.00700		0.000190	0.000500	0.000500	1	11/09/2022 10:26	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 10:26	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 10:26	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 10:26	WG1956398
(S) o,a,a-Trifluorotoluene(PID)	103				79.0-125		11/09/2022 10:26	WG1956398

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 11/03/22 13:45

L1554627

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	11/09/2022 10:48	WG1956398
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 10:48	WG1956398
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 10:48	WG1956398
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 10:48	WG1956398
(S) a,a,a-Trifluorotoluene(PID)	101				79.0-125		11/09/2022 10:48	WG1956398

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 11/03/22 14:45

L1554627

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	0.00459		0.000190	0.000500	0.000500	1	11/09/2022 11:10	WG1955343
Toluene	U		0.000412	0.00100	0.00100	1	11/09/2022 11:10	WG1955343
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/09/2022 11:10	WG1955343
Total Xylene	U		0.000510	0.00150	0.00150	1	11/09/2022 11:10	WG1955343
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		11/09/2022 11:10	WG1955343

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

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(a)pyrene	U		0.0000184	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Benzo(k)fluoranthene	U		0.0000202	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Dibenzofuran	0.000232		0.0000191	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Fluoranthene	0.0000301	U	0.0000270	0.000100	0.000100	1	11/08/2022 20:48	WG1955343
Fluorene	0.0000698		0.0000169	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Naphthalene	0.000114	U	0.0000917	0.000250	0.000250	1	11/08/2022 20:48	WG1955343
Phenanthrene	0.0000782		0.0000180	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
Pyrene	0.0000236	U	0.0000169	0.0000500	0.0000500	1	11/08/2022 20:48	WG1955343
1-Methylnaphthalene	0.0000915	U	0.0000687	0.000250	0.000250	1	11/08/2022 20:48	WG1955343
2-Methylnaphthalene	U		0.0000674	0.000250	0.000250	1	11/08/2022 20:48	WG1955343
(S) Nitrobenzene-d5	120				31.0-160		11/08/2022 20:48	WG1955343
(S) 2-Fluorobiphenyl	111				48.0-148		11/08/2022 20:48	WG1955343
(S) p-Terphenyl-d14	109				37.0-146		11/08/2022 20:48	WG1955343

Collected date/time: 11/03/22 14:50

L1554627

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	1.19		0.00190	0.000500	0.00500	10	11/11/2022 01:59	WG1957757
Toluene	0.0615		0.00412	0.00100	0.0100	10	11/11/2022 01:59	WG1957757
Ethylbenzene	0.0222	B	0.00160	0.000500	0.00500	10	11/11/2022 01:59	WG1957757
Total Xylene	0.106		0.00510	0.00150	0.0150	10	11/11/2022 01:59	WG1957757
(S) a,a,a-Trifluorotoluene(PID)	103				79.0-125		11/11/2022 01:59	WG1957757

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

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Acenaphthene	0.000511		0.0000190	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(a)pyrene	U		0.0000184	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Benzo(k)fluoranthene	U		0.0000202	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Chrysene	0.0000259	U	0.0000179	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Dibenzofuran	0.00372		0.0000191	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Fluoranthene	0.0000368	U	0.0000270	0.000100	0.000100	1	11/08/2022 21:05	WG1955343
Fluorene	0.00307		0.0000169	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Naphthalene	0.0415		0.0000917	0.000250	0.000250	1	11/08/2022 21:05	WG1955343
Phenanthrene	0.00329		0.0000180	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
Pyrene	0.0000363	U	0.0000169	0.0000500	0.0000500	1	11/08/2022 21:05	WG1955343
1-Methylnaphthalene	0.0384		0.0000687	0.000250	0.000250	1	11/08/2022 21:05	WG1955343
2-Methylnaphthalene	0.0178		0.0000674	0.000250	0.000250	1	11/08/2022 21:05	WG1955343
(S) Nitrobenzene-d5	143				31.0-160		11/08/2022 21:05	WG1955343
(S) 2-Fluorobiphenyl	119				48.0-148		11/08/2022 21:05	WG1955343
(S) p-Terphenyl-d14	107				37.0-146		11/08/2022 21:05	WG1955343



Volatile Organic Compounds (GC) by Method 8021B

[L1554627-01,02,03,04,05,06,07,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3859702-2 11/09/22 01:30

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)	100			79.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3859702-1 11/08/22 23:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0472	94.4	77.0-122	
Toluene	0.0500	0.0481	96.2	80.0-121	
Ethylbenzene	0.0500	0.0493	98.6	80.0-123	
Total Xylene	0.150	0.143	95.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			102	79.0-125	

Volatile Organic Compounds (GC) by Method 8021B

L1554627-01,02,14

Method Blank (MB)

(MB) R3860016-3 11/10/22 23:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	0.000578	U	0.000412	0.00100
Ethylbenzene	0.000373	U	0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3860016-2 11/10/22 22:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0536	107	77.0-122	
Toluene	0.0500	0.0487	97.4	80.0-121	
Ethylbenzene	0.0500	0.0542	108	80.0-123	
Total Xylene	0.150	0.149	99.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			107	79.0-125	

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM L1554627-13,14

Method Blank (MB)

(MB) R3859536-3 11/08/22 16:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000171	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(g,h,i)perylene	U		0.0000184	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Chrysene	U		0.0000179	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Dibenzofuran	U		0.0000191	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Phenanthrene	U		0.0000180	0.0000500
Pyrene	U		0.0000169	0.0000500
1-Methylnaphthalene	U		0.0000687	0.000250
2-Methylnaphthalene	U		0.0000674	0.000250
(S) Nitrobenzene-d5	120			31.0-160
(S) 2-Fluorobiphenyl	117			48.0-148
(S) p-Terphenyl-d14	117			37.0-146

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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

(LCS) R3859536-1 11/08/22 16:09 • (LCSD) R3859536-2 11/08/22 16:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.00231	0.00226	115	113	67.0-150			2.19	20
Acenaphthene	0.00200	0.00251	0.00245	126	122	65.0-138			2.42	20
Acenaphthylene	0.00200	0.00236	0.00233	118	117	66.0-140			1.28	20
Benzo(a)anthracene	0.00200	0.00238	0.00238	119	119	61.0-140			0.000	20
Benzo(a)pyrene	0.00200	0.00242	0.00241	121	120	60.0-143			0.414	20
Benzo(b)fluoranthene	0.00200	0.00230	0.00229	115	115	58.0-141			0.436	20
Benzo(g,h,i)perylene	0.00200	0.00212	0.00212	106	106	52.0-153			0.000	20
Benzo(k)fluoranthene	0.00200	0.00227	0.00227	114	114	58.0-148			0.000	20
Chrysene	0.00200	0.00248	0.00250	124	125	64.0-144			0.803	20
Dibenz(a,h)anthracene	0.00200	0.00207	0.00207	104	104	52.0-155			0.000	20
Dibenzofuran	0.00200	0.00253	0.00248	126	124	67.0-134			2.00	20

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

(LCS) R3859536-1 11/08/22 16:09 • (LCSD) R3859536-2 11/08/22 16:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluoranthene	0.00200	0.00246	0.00240	123	120	69.0-153			2.47	20
Fluorene	0.00200	0.00256	0.00251	128	126	64.0-136			1.97	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00222	0.00224	111	112	54.0-153			0.897	20
Naphthalene	0.00200	0.00236	0.00234	118	117	61.0-137			0.851	20
Phenanthrene	0.00200	0.00241	0.00237	120	118	62.0-137			1.67	20
Pyrene	0.00200	0.00270	0.00271	135	135	60.0-142			0.370	20
1-Methylnaphthalene	0.00200	0.00239	0.00236	119	118	66.0-142			1.26	20
2-Methylnaphthalene	0.00200	0.00246	0.00243	123	122	62.0-136			1.23	20
(S) Nitrobenzene-d5				123	122	31.0-160				
(S) 2-Fluorobiphenyl				121	119	48.0-148				
(S) p-Terphenyl-d14				118	117	37.0-146				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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.



Company Name/Address: Plains All American, LP - GHD		Billing Information: Attn: Karolanne Hudgens 1106 Griffith Drive Midland, TX 79705		Analysis / Container / Preservative		Chain of Custody Page ____ of ____	
Report to: John Ferguson		Email To: john.fergerson@ghd.com KHudgens@paalp.com		Pres Chk		 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/hubs/pas-standard-terms.pdf	
Project Description: Chevron Grayburg 6-Inch Sec. 6 Historical		City/State Collected:		Please Circle: PT MT CT ET		SDG # L1554627 F168 Acctnum: PLAINSGHD Template: T217792 Prelogin: P961196 PM: 829-Brittanie L Boyd PB: Shipped Via: FedEX Ground	
Phone: 432-894-7848		Client Project # SRS Chevron Grayburg 6-Inch Historical		Lab Project # PLAINSGHD-12572712		BTEX8021 40mLamb-HCL PAHSIMLVI 40mLamb-NoPres-WT	
Collected by (print): <i>Mitchell Demons</i>		Site/Facility ID # Chevron Grayburg 6-Inch Historical		P.O. #			
Collected by (signature): <i>Mitchell Demons</i>		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #			
Immediately Packed on Ice N ___ Y ☒		Date Results Needed		No. of Cntrs			
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time		
GB-ATL	Grab	GW ☒		11-3-22		3	X
GB-DUP-1-110322		GW ☒				3	X
GB-MW-10-110322		GW ☒			15:30	3	X
GB-MW-11-110322	GW	OT ☒			15:35	3	X
Trip Blank		OT ☒					X
Temp Blank		OT ☒					
		☒					
		☒					
		☒					
		☒					

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

Remarks:

Samples returned via:
 ___ UPS ___ FedEx ___ Courier _____

Tracking # _____

Relinquished by: (Signature)
Mitchell Demons

Date: 11-4-22 Time: 07:30

Received by: (Signature)
C. B.

Trip Blank Received: Yes/No ☒ No ☐ Yes

Flow _____ Other _____

Relinquished by: (Signature)
C. B.

Date: 11/4/22 Time: 1700

Received by: (Signature)
SWA

Temp 34.7 °C Bottles Received: 9

5.8 to 5.8

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)
[Signature]

Date: Time:

Hold:

Condition: NCF 100

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

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		Pres Chk	Analysis / Container / Preservative										Chain of Custody Page ____ of ____					
															 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/hubs/pas-standard-terms.pdf SDG # L1554627 F167 Acctnum: PLAINSGHD Template: T217792 Prelogin: P961196 PM: 829-Brittanie L Boyd PB: Shipped Via: FedEX Ground					
Report to: John Ferguson		Email To: john.fergerson@ghd.com KHudgens@paalp.com		BTEX8021 40mLamb-HCL PAHSIMLVI 40mLamb-NoPres-WT																
Project Description: Chevron Grayburg 6-Inch Sec. 6 Historical		City/State Collected:															Please Circle: PT MT CT ET			
Phone: 432-894-7848	Client Project # SRS Chevron Grayburg 6-Inch Historical		Lab Project # PLAINSGHD-12572712																	
Collected by (print): <i>Mitchell Chereas</i>	Site/Facility ID # Chevron Grayburg 6-Inch Historical		P.O. #																	
Collected by (signature): <i>Mitchell Chereas</i>	Rush? (Lab MUST Be Notified) ☐ Same Day ☒ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #																	
Immediately Packed on Ice N ☐ Y ☒		Date Results Needed		No. of Cntrs																
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time															
GB-MW-14-110322	Grab	GW ☒	-	11-3-22	10:15	3	X											- 05		
GB-MW-6-110322		GW ☒		11-3-22	10:20	3	X											- 06		
GB-MW-1-110322		GW ☒			11:40	3	X											- 07		
GB-MW-5-110322		GW ☒			11:45	3	X											- 08		
GB-MW-2-110322		GW ☒			12:25	3	X											- 09		
GB-MW-4-110322		GW ☒			12:40	3	X											- 10		
GB-MW-3-110322		GW ☒			13:40	3	X											- 11		
GB-MW-13-110322		GW ☒			13:45	3	X											- 12		
GB-MW-9-110322		GW ☒			14:45	5	X	X											- 13	
GB-MW-8-110322		GW ☒			14:50	5	X	X											- 14	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #		pH _____ Temp _____ Flow _____ Other _____										Sample Receipt Checklist COC Seal Present/Intact: ☐ NP ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N		
Relinquished by: (Signature) <i>Mitchell Chereas</i>		Date: 11-4-22	Time: 07:30	Received by: (Signature) <i>[Signature]</i>		Trip Blank Received: 3 ☒ Yes ☐ No HCL/MeOH TBR		Temp: 13.7 °C Bottles Received: 34 5.810-5.8										If preservation required by Login: Date/Time		
Relinquished by: (Signature) <i>[Signature]</i>		Date: 11/4/22	Time: 1700	Received by: (Signature) <i>[Signature]</i>		Date: 11/5 Time: 0800		Hold:										Condition: NCF / OK		
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date:														



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 206201

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 206201
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	1. Continue NMOCD-approved quarterly groundwater monitoring events for sampling of groundwater and analysis of BTEX for all site wells and annual sampling for PAH for MW-7, MW-8 and MW-12. 2. Continue monthly LNAPL abatement where necessary. 3. Complete a work plan proposal to NMOCD per the recommendation.	6/6/2023