11451 Katy Freeway, Suite 400
Houston, Texas 77079
United States
ghd.com

Your ref: AP-007
Our ref: 12604539-Buchanan-2

August 7, 2025

Mr. Michael Buchanan
State of New Mexico
Energy, Minerals, and Natural Resources Department
Oil Conservation Division
8801 Horizon Boulevard NE, Suite 260
Albuquerque, New Mexico 87113

2024 Annual Groundwater Monitoring Report
Chevron Grayburg 6-Inch Sec. 6 (Historical)
Plains All American Pipeline, L.P.
Lea County, New Mexico
New Mexico Oil Conservation Division Remediation Case No. 1RP-2637
Incident Number nAPP2108849308

Dear Mr. Buchanan:

On behalf of Plains All American Pipeline, L.P. (Plains), GHD Services Inc. (GHD) is submitting the *2024 Annual Groundwater Monitoring Report* (Report) for the above-referenced property (Site) to the New Mexico Oil Conservation Division (NMOCD). The Report summarizes activities performed at the Site during 2024 in accordance with the NMOCD's recommendations in response to the *2023 Annual Groundwater Monitoring Report.*

Should you have any questions or comments regarding this submittal, please contact the undersigned.

Regards,

Adrianna Copeland
Project Manager

+1 281 615-3420
adrianna.copeland@ghd.com

J.T. Murrey
Project Director

+1 361 252-6136
jt.murrey@ghd.com

AC/mss/2

Encl.: 2024 Annual Groundwater Monitoring Report

2024 Annual Groundwater Monitoring Report

Chevron Grayburg 6-Inch Sec. 6 (Historical)
Lea County, New Mexico
NMOCD 1RP-2637
Incident ID #: nAPP2108849308

Plains All American Pipeline, L.P.

August 7, 2025

→ The Power of Commitment

Contents

Table index

Figure index

Released to Imaging: 10/8/2025 2:00:48 PM

Appendices

Released to Imaging: 10/8/2025 2:00:48 PM

1. Introduction and Site History

This report presents the results of groundwater monitoring activities at the Plains All American Pipeline, L.P. (Plains) Chevron Grayburg 6-Inch Sec. 6 (Historical) release Site (Site) by GHD Services Inc. (GHD). The Site is located approximately 14 miles southwest of Lovington and in the NW ¼, NE ¼, Section 6, Township 18 South, Range 35 East in Lea County, New Mexico. The coordinates of this Site are 32.7811 N latitude and 103.4925°W longitude. The location of the Site is shown in Figure 1. A detailed map of the Site is provided on Figure 2. 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 Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under Remediation Plan (RP)-2637 and is associated with incident number nAPP2108849308.

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 responsibilities and remediation responsibilities were assumed by Basin Environmental Service Technologies, LLC (Basin). Four monitoring wells (MW-1, MW-2, MW-3, and MW-4) were installed in June 2012 and three monitoring wells (MW-5, MW-6, and MW-7) were installed in March 2013 to delineate the extent of groundwater contamination.

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. GHD is relying on the provided information to be accurate and true. GHD provided oversight to the installation of seven monitoring wells (MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14) in November 2017 to further delineate the extent of groundwater contamination. All wells were installed with NMOCD approval. A detailed map of the Site with monitoring well locations depicted is provided on Figure 2.

Currently, the Site has a network of 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 monitor the concentrations of constituents of concern (COCs) and to delineate the extent of the contamination. The COCs are benzene, toluene, ethylbenzene, and total xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAH), which includes benzo(a)pyrene, total naphthalene, and combined monomethylnapthalenes (1-methylnapthalenes and 2-methylnapthalenes).

2. Groundwater Monitoring

GHD performed quarterly groundwater monitoring activities at the Site on February 26-27 and 29, May 20-21, August 19-20, and November 18-19, 2024. The monitoring program included quarterly groundwater gauging and sampling from monitoring wells.

2.1 Monitoring Well Gauging

On February 26-27 and 29, May 20-21, August 19-20, and November 18-19, 2024, GHD personnel measured the depth to groundwater in monitoring wells MW-1 through MW-14 using an electronic oil/water interface probe (IP). The IP was cleaned with laboratory grade soap and purified water prior to gauging each monitoring well.

Based on the data collected in 2024, groundwater flow is generally west-southwest and is consistent with historical data for the Site. The groundwater gradient was calculated at 0.0006 foot per linear foot (ft/ft) in February, 0.003 ft/ft in May, 0.029 ft/ft in August, and 0.048 ft/ft in November. The potentiometric surface indicates groundwater elevations

have inclined an average 0.74 feet between November 2023 and November 2024. Fluctuations in the elevation of the potentiometric surface are attributed to seasonal weather conditions. Groundwater potentiometric surface maps are presented as Figures 3, 4, 5, and 6.

Two of the fourteen monitoring wells at the Site contained LNAPL throughout 2024 with measurable thicknesses ranging from 0.01 ft to 4.88 ft. Depth to groundwater, LNAPL thickness, and calculated groundwater elevations are summarized in Table 1 and represented on Figures 7, 8, 9, and 10.

2.2 Groundwater Sampling

Following gauging during each quarterly monitoring event in February, May, August, and November 2024, GHD personnel utilized clean, disposable, polyvinyl chloride (PVC) bailers to purge a minimum of three well volumes of groundwater or until the well was dry. The well was allowed to recover before collecting a groundwater sample. Purged water recovered during the monitoring events was placed into the Site's above-ground storage tank (AST) pending disposal. Purge water was periodically transported off-Site and disposed at a NMOCD-approved disposal facility as directed by Plains. Disposal records are available upon request.

Groundwater samples were collected, placed in laboratory provided sample containers, packed in a cooler with ice, and transported under Chain-of-Custody documentation to Pace Analytical Laboratory in Mt. Juliet, Tennessee in February 2024 and ALS Environmental Laboratory in Houston, Texas in May, August, and November 2024. Analyses of BTEX were performed according to the United States Environmental Protection Agency (USEPA) Method SW846-8021B for the February event and according to the USEPA Method SW846-8260 for the May, August, and November events.

On an annual basis, groundwater samples are analyzed for PAH by EPA Method SW846-8270C-SIM for monitoring wells not having previously met the criteria of two consecutive years of PAH compounds being below NMWQCC standards and below 0.001 milligrams per liter (mg/L) for PAH compounds with no NMWQCC standard as required by the NMOCD. One sample was collected from monitoring well MW-8 on November 19, 2024, and was submitted for PAH analysis.

2.3 Quality Assurance/Quality Control

During each groundwater monitoring event, a field duplicate was collected as a Quality Assurance/Quality Control (QA/QC) sample and subsequently submitted for laboratory analysis. A trip blank was also submitted as a QA/QC sample for each groundwater monitoring event.

2.4 Analytical Results

The New Mexico Water Quality Control Commission (NMWQCC) mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use.

Analytical results indicated benzene at concentrations exceeding the NMWQCC Groundwater Remediation and Delineation Limit in samples from one of twelve monitoring wells sampled in the first (February) quarterly monitoring event, two of thirteen monitoring wells sampled in the second (May) quarterly monitoring event, one of thirteen monitoring wells sampled in the third (August) quarterly monitoring event, and three of thirteen monitoring wells sampled in the fourth (November) quarterly monitoring event. Analytical results indicated toluene, ethylbenzene, and total xylenes at concentrations below NMWQCC standards in all monitoring wells sampled in 2024. Analytical results exhibited naphthalene at concentrations exceeding the NMWQCC Groundwater Remediation and Delineation Limit in samples from monitoring well MW-8. Naphthalene concentrations exceeded the NMWQCC Groundwater Remediation and Delineation Limit in the sample from monitoring well MW-8.

Released to Imaging: 10/8/2025 2:00:48 PM

The groundwater analytical results are summarized in Table 2 and the groundwater PAH results are summarized in Table 3. Copies of the Certified Laboratory Analytical Reports are attached as Appendix B. COC concentration maps are presented as Figures 7, 8, 9, and 10.

3. Remediation Activities

3.1 Mobile Dual Phase Extraction

A Mobile Dual Phase Extraction (MDPE) event for the recovery of LNAPL and impacted groundwater at the Site was conducted by Talon-LPE (Talon) on monitoring well MW-7 on January 8, 2024. Talon estimates approximately 463 gallons of fluids were recovered during the MDPE event. The total hydrocarbon recovery in vapor and liquid phase was approximately 52.26 gallons. All fluids recovered from the MDPE events were disposed of at approved licensed disposal facility, and all hydrocarbon vapors were destroyed in a thermal oxidizer within the emissions limits established by the PI-7 Permit.

3.2 LNAPL Transmissivity Evaluation

GHD conducted a LNAPL transmissivity (T_n) evaluation at the Site. Testing was performed pursuant to the methodology contained in ASTM International (ASTM) Standard E2856-13 *Standard Guide for Estimation of LNAPL Transmissivity* (May 2013) using the baildown technique at a select well with recent static/equilibrium in-well LNAPL thickness of at least 0.5 feet. Well MW-7 was selected for transmissivity testing as it meets this minimum in-well LNAPL thickness requirement. Testing occurred on May 21 and November 29, 2024. The rapid removal of LNAPL with minimal groundwater drawdown was monitored for recharge to estimate T_n using the API LNAPL Transmissivity Workbook (2012). Results were compared against the ITRC de minimis threshold (Tn ≤ 0.8 ft²/day).

Results from MW-7 indicate that the magnitude of the recoverability of the LNAPL (or T_n) is consistent with what ITRC recommends as a de minimis level. As such, these results support that the LNAPL remaining at the Site is predominantly immobile residual and the magnitude of LNAPL recoverability is already less than what would be considered a practical endpoint to LNAPL recovery (i.e., recovery to the maximum extent practical. Detailed findings are in Appendices C and D.

3.3 LNAPL Stability Evaluation

GHD performed an evaluation of Site contamination to assess the stability and mobility of residual LNAPL and associated dissolved phase impacts. Statistical analysis of dissolved BTEX data, including the Mann-Kendall test, confirmed stable or declining trends, with many wells showing low or non-detect concentrations for years. These trends, combined with evidence of natural attenuation, indicate effective reduction of dissolved hydrocarbon concentrations over time. Detailed findings are in Appendix E.

4. Summary and Recommendations

4.1 Summary

The following summarizes the information and data presented in this report:

– LNAPL was gauged in two of the fourteen monitoring wells at the Site with thicknesses ranging from 0.01 ft to 4.88 ft.

Released to Imaging: 10/8/2025 2:00:48 PM

- Benzene concentrations exceeded the NMWQCC Groundwater Remediation and Delineation Limit in three of the fourteen monitoring wells at the Site.
- Toluene, ethylbenzene, and xylene concentrations were below the NMWQCC Groundwater Remediation and Delineation Limits in all monitoring wells sampled at the Site in 2024.
- Annual PAH analysis for monitoring well MW-8 indicated a concentration exceedance of naphthalene.
- One MDPE event was conducted on monitoring well MW-7 by Talon.
- Transmissivity testing was performed at monitoring well MW-7 two times per year to account for seasonal variability, in May and November.

4.2 Recommendations

Based on the results of the 2024 groundwater monitoring events, GHD recommends the following in 2025:

- Modify sampling plan from a quarterly to a semi-annual sampling schedule. Perform semi-annual groundwater monitoring events for sampling of groundwater and analysis of BTEX by USEPA Method SW846-8021B for all Site monitoring wells.
- Request to remove monitoring wells MW-2, MW-3, MW-5, and MW-13 from the groundwater monitoring program. These monitoring wells are either redundant on delineation boundary or redundant within the LNAPL/dissolved phase plume boundary. These monitoring wells will not be P&A and will remain in place for future remediation evaluations.
- Continue annual PAH sampling in monitoring well MW-8.
- Discontinue MDPE events at MW-7. The transmissivity test results support that support that the LNAPL remaining at the site is predominantly immobile residual and the magnitude of LNAPL recoverability is less than what would be considered a practical endpoint to LNAPL recovery (i.e., recovery to the maximum extent practical). We propose continuing to monitor MW-7 as part of the routine groundwater monitoring program to confirm that LNAPL conditions remain stable over time.

Released to Imaging: 10/8/2025 2:00:48 PM

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-1	1/10/2020		3982.09	--	--	--	--	--
MW-1	2/19/2020		3982.09	--	--	--	--	--
MW-1	2/24/2020		3982.09	123.07	--	--	3859.02	135.59
MW-1	3/13/2020		3982.09	--	--	--	--	--
MW-1	4/29/2020		3982.09	123.24	--	--	3858.85	--
MW-1	5/26/2020		3982.09	123.14	--	--	3858.95	--
MW-1	6/16/2020		3982.09	123.13	--	--	3858.96	--
MW-1	7/30/2020		3982.09	123.14	--	--	3858.95	--
MW-1	8/26/2020		3982.09	123.05	--	--	3859.04	--
MW-1	9/17/2020		3982.09	123.18	--	--	3858.91	128.9
MW-1	10/21/2020		3982.09	123.2	--	--	3858.89	--
MW-1	11/4/2020		3982.09	123.26	--	--	3858.83	--
MW-1	12/9/2020		3982.09	123.22	--	--	3858.87	--
MW-1	1/28/2021		3982.09	123.31	--	--	3858.78	--
MW-1	2/25/2021		3982.09	123.33	--	--	3858.76	128.97
MW-1	3/24/2021		3982.09	123.33	--	--	3858.76	--
MW-1	4/30/2021		3982.09	123.33	--	--	3858.76	--
MW-1	5/11/2021		3982.09	123.39	--	--	3858.7	--
MW-1	6/28/2021		3982.09	123.33	--	--	3858.76	--
MW-1	7/27/2021		3982.09	123.26	--	--	3858.83	--
MW-1	8/24/2021		3982.09	123.25	--	--	3858.84	--
MW-1	9/30/2021		3982.09	123.4	--	--	3858.69	128.97
MW-1	10/28/2021		3982.09	123.45	--	--	3858.64	128.97
MW-1	11/16/2021		3982.09	122.49	--	--	3859.6	128.97
MW-1	2/1/2022		3982.09	123.78	--	--	3858.31	128.97
MW-1	2/22/2022		3982.09	123.89	--	--	3858.2	128.91
MW-1	3/16/2022		3982.09	123.91	--	--	3858.18	128.91
MW-1	4/11/2022		3982.09	123.99	--	--	3858.1	128.91
MW-1	5/24/2022		3982.09	124.16	--	--	3857.93	128.91
MW-1	6/15/2022		3982.09	124.27	--	--	3857.82	128.91
MW-1	7/28/2022		3982.09	124.25	--	--	3857.84	128.91
MW-1	8/24/2022		3982.09	124.39	--	--	3857.7	128.91
MW-1	11/2/2022		3982.09	124.55	--	--	3857.54	128.91
MW-1	1/23/2023		3982.09	124.79	--	--	3857.3	128.91
MW-1	2/17/2023		3982.09	124.85	--	--	3857.24	129.28
MW-1	3/1/2023		3982.09	124.84	--	--	3857.25	129.28
MW-1	4/24/2023		3982.09	125.37	--	--	3856.72	126.13
MW-1	5/9/2023		3982.09	124.93	--	--	3857.16	126.13
MW-1	6/16/2023		3982.09	124.83	--	--	3857.26	126.13
MW-1	7/21/2023		3982.09	124.86	--	--	3857.23	126.13
MW-1	8/8/2023		3982.09	124.86	--	--	3857.23	126.13
MW-1	9/15/2023		3982.09	124.88	--	--	3857.21	126.13
MW-1	10/20/2023		3982.09	124.87	--	--	3857.22	--
MW-1	11/16/2023		3982.09	124.78	--	--	3857.31	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-1	2/26/2024		3982.09	124.86	--	--	3857.23	126.13
MW-1	5/20/2024		3982.09	125	--	--	3857.09	129.08
MW-1	8/20/2024		3982.09	125.07	--	--	3857.02	129.14
MW-1	11/18/2024		3982.09	125.26	--	--	3856.83	129.2
MW-2	2/24/2020		3981.21	122.19	--	--	3859.02	127.41
MW-2	4/29/2020		3981.21	122.35	--	--	3858.86	--
MW-2	5/26/2020		3981.21	122.22	--	--	3858.99	--
MW-2	6/16/2020		3981.21	123.5	--	--	3857.71	--
MW-2	7/30/2020		3981.21	122.23	--	--	3858.98	--
MW-2	8/26/2020		3981.21	123.52	--	--	3857.69	--
MW-2	9/17/2020		3981.21	122.29	--	--	3858.92	127.38
MW-2	10/21/2020		3981.21	122.27	--	--	3858.94	--
MW-2	11/4/2020		3981.21	122.35	--	--	3858.86	--
MW-2	12/9/2020		3981.21	122.29	--	--	3858.92	--
MW-2	1/28/2021		3981.21	122.38	--	--	3858.83	--
MW-2	2/25/2021		3981.21	122.44	--	--	3858.77	127.65
MW-2	3/24/2021		3981.21	122.43	--	--	3858.78	--
MW-2	4/30/2021		3981.21	122.45	--	--	3858.76	--
MW-2	5/11/2021		3981.21	122.46	--	--	3858.75	--
MW-2	6/28/2021		3981.21	122.41	--	--	3858.8	--
MW-2	7/27/2021		3981.21	122.35	--	--	3858.86	--
MW-2	8/24/2021		3981.21	122.35	--	--	3858.86	--
MW-2	9/30/2021		3981.21	122.49	--	--	3858.72	127.65
MW-2	10/28/2021		3981.21	122.54	--	--	3858.67	127.65
MW-2	11/16/2021		3981.21	122.54	--	--	3858.67	127.65
MW-2	2/1/2022		3981.21	122.86	--	--	3858.35	127.65
MW-2	2/22/2022		3981.21	122.95	--	--	3858.26	127.65
MW-2	3/16/2022		3981.21	123.02	--	--	3858.19	127.65
MW-2	4/11/2022		3981.21	123.12	--	--	3858.09	127.65
MW-2	5/24/2022		3981.21	123.21	--	--	3858	127.65
MW-2	6/15/2022		3981.21	123.35	--	--	3857.86	127.65
MW-2	7/28/2022		3981.21	123.37	--	--	3857.84	127.65
MW-2	8/24/2022		3981.21	123.52	--	--	3857.69	127.65
MW-2	11/2/2022		3981.21	123.66	--	--	3857.55	127.65
MW-2	2/17/2023		3981.21	123.93	--	--	3857.28	128.1
MW-2	5/9/2023		3981.21	124.05	--	--	3857.16	128.1
MW-2	8/8/2023		3981.21	123.95	--	--	3857.26	128.1
MW-2	11/16/2023		3981.21	125.06	--	--	3856.15	--
MW-2	2/26/2024		3981.21	123.99	--	--	3857.22	128.1
MW-2	5/20/2024		3981.21	124.11	--	--	3857.1	127.8
MW-2	8/20/2024		3981.21	124.59	--	--	3856.62	128.35
MW-2	11/18/2024		3981.21	124.35	--	--	3856.86	128.15
MW-3	1/10/2020		3982.31	--	--	--	--	--
MW-3	2/19/2020		3982.31	--	--	--	--	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-3	2/24/2020		3982.31	123.39	--	--	3858.92	131.76
MW-3	3/13/2020		3982.31	--	--	--	--	--
MW-3	4/29/2020		3982.31	123.51	--	--	3858.8	--
MW-3	5/26/2020		3982.31	123.4	--	--	3858.91	--
MW-3	6/16/2020		3982.31	123.4	--	--	3858.91	--
MW-3	7/30/2020		3982.31	123.4	--	--	3858.91	--
MW-3	8/26/2020		3982.31	123.42	--	--	3858.89	--
MW-3	9/15/2020		3982.31	123.44	--	--	3858.87	--
MW-3	9/15/2020		3982.31	123.47	--	--	3858.84	--
MW-3	9/17/2020		3982.31	123.45	--	--	3858.86	131.45
MW-3	10/21/2020		3982.31	123.46	--	--	3858.85	--
MW-3	11/4/2020		3982.31	123.57	--	--	3858.74	--
MW-3	12/9/2020		3982.31	123.5	--	--	3858.81	--
MW-3	1/28/2021		3982.31	123.63	--	--	3858.68	--
MW-3	2/25/2021		3982.31	123.63	--	--	3858.68	131.47
MW-3	3/24/2021		3982.31	123.59	--	--	3858.72	--
MW-3	4/30/2021		3982.31	123.61	--	--	3858.7	--
MW-3	5/11/2021		3982.31	123.66	--	--	3858.65	--
MW-3	6/28/2021		3982.31	123.6	--	--	3858.71	--
MW-3	7/27/2021		3982.31	123.52	--	--	3858.79	--
MW-3	8/24/2021		3982.31	123.51	--	--	3858.8	--
MW-3	9/30/2021		3982.31	123.67	--	--	3858.64	131.47
MW-3	10/28/2021		3982.31	123.72	--	--	3858.59	131.47
MW-3	11/16/2021		3982.31	123.7	--	--	3858.61	131.47
MW-3	2/1/2022		3982.31	124.02	--	--	3858.29	131.47
MW-3	2/22/2022		3982.31	124.17	--	--	3858.14	131.39
MW-3	3/16/2022		3982.31	124.18	--	--	3858.13	131.39
MW-3	4/11/2022		3982.31	124.25	--	--	3858.06	131.39
MW-3	5/24/2022		3982.31	124.43	--	--	3857.88	131.39
MW-3	6/15/2022		3982.31	124.52	--	--	3857.79	131.39
MW-3	7/28/2022		3982.31	124.52	--	--	3857.79	131.39
MW-3	8/24/2022		3982.31	124.68	--	--	3857.63	131.39
MW-3	11/2/2022		3982.31	124.82	--	--	3857.49	131.39
MW-3	2/17/2023	LNAPL	3982.31	125.11	125.1	0.01	3857.208	131.52
MW-3	4/24/2023		3982.31	125.23	--	--	3857.08	131.52
MW-3	5/9/2023		3982.31	125.21	--	--	3857.1	131.52
MW-3	6/16/2023		3982.31	125.05	--	--	3857.26	131.52
MW-3	7/21/2023		3982.31	125.09	--	--	3857.22	131.52
MW-3	8/8/2023		3982.31	125.09	--	--	3857.22	131.52
MW-3	11/16/2023		3982.31	125.18	--	--	3857.13	--
MW-3	2/26/2024		3982.31	125.16	--	--	3857.15	131.52
MW-3	5/20/2024		3982.31	125.24	--	--	3857.07	131.21
MW-3	8/20/2024		3982.31	125.34	--	--	3856.97	131.33
MW-3	11/18/2024		3982.31	125.5	--	--	3856.81	131.3

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-4	2/24/2020		3982.48	123.45	--	--	3859.03	135.59
MW-4	4/29/2020		3982.48	123.7	--	--	3858.78	--
MW-4	5/26/2020		3982.48	123.5	--	--	3858.98	--
MW-4	6/16/2020		3982.48	122.23	--	--	3860.25	--
MW-4	7/30/2020		3982.48	123.53	--	--	3858.95	--
MW-4	8/26/2020		3982.48	122.24	--	--	3860.24	--
MW-4	9/17/2020		3982.48	123.57	--	--	3858.91	135.65
MW-4	10/21/2020		3982.48	123.57	--	--	3858.91	--
MW-4	11/4/2020		3982.48	123.6	--	--	3858.88	--
MW-4	12/9/2020		3982.48	123.6	--	--	3858.88	--
MW-4	1/28/2021		3982.48	123.69	--	--	3858.79	--
MW-4	2/25/2021		3982.48	123.71	--	--	3858.77	135.71
MW-4	3/24/2021		3982.48	123.7	--	--	3858.78	--
MW-4	4/30/2021		3982.48	123.7	--	--	3858.78	--
MW-4	5/11/2021		3982.48	123.77	--	--	3858.71	--
MW-4	6/28/2021		3982.48	123.71	--	--	3858.77	--
MW-4	7/27/2021		3982.48	123.64	--	--	3858.84	--
MW-4	8/24/2021		3982.48	123.64	--	--	3858.84	--
MW-4	9/30/2021		3982.48	123.77	--	--	3858.71	135.71
MW-4	10/28/2021		3982.48	123.81	--	--	3858.67	135.71
MW-4	11/16/2021		3982.48	123.82	--	--	3858.66	135.71
MW-4	2/1/2022		3982.48	124.12	--	--	3858.36	135.71
MW-4	2/22/2022		3982.48	124.13	--	--	3858.35	135.6
MW-4	3/16/2022		3982.48	124.25	--	--	3858.23	135.6
MW-4	4/11/2022		3982.48	124.39	--	--	3858.09	135.6
MW-4	5/24/2022		3982.48	124.43	--	--	3858.05	135.6
MW-4	6/15/2022		3982.48	124.54	--	--	3857.94	135.6
MW-4	7/28/2022		3982.48	124.59	--	--	3857.89	135.6
MW-4	8/24/2022		3982.48	124.74	--	--	3857.74	135.6
MW-4	11/2/2022		3982.48	124.89	--	--	3857.59	135.6
MW-4	2/17/2023		3982.48	125.18	--	--	3857.3	135.29
MW-4	5/9/2023		3982.48	125.26	--	--	3857.22	135.29
MW-4	8/8/2023		3982.48	125.17	--	--	3857.31	135.29
MW-4	11/16/2023		3982.48	124.16	--	--	3858.32	--
MW-4	2/26/2024		3982.48	125.24	--	--	3857.24	135.29
MW-4	5/20/2024		3982.48	125.34	--	--	3857.14	135.53
MW-4	8/20/2024		3982.48	125.44	--	--	3857.04	135.67
MW-4	11/18/2024		3982.48	125.6	--	--	3856.88	135.7
MW-5	2/24/2020		3981.45	122.44	--	--	3859.01	136.32
MW-5	4/29/2020		3981.45	122.61	--	--	3858.84	--
MW-5	5/26/2020		3981.45	122.5	--	--	3858.95	--
MW-5	6/16/2020		3981.45	122.47	--	--	3858.98	--
MW-5	7/30/2020		3981.45	122.48	--	--	3858.97	--
MW-5	8/26/2020		3981.45	122.5	--	--	3858.95	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-5	9/17/2020		3981.45	122.55	--	--	3858.9	136.29
MW-5	10/21/2020		3981.45	122.55	--	--	3858.9	--
MW-5	11/4/2020		3981.45	122.63	--	--	3858.82	--
MW-5	12/9/2020		3981.45	122.58	--	--	3858.87	--
MW-5	1/28/2021		3981.45	122.66	--	--	3858.79	--
MW-5	2/25/2021		3981.45	122.75	--	--	3858.7	136.42
MW-5	3/24/2021		3981.45	122.69	--	--	3858.76	--
MW-5	4/30/2021		3981.45	122.72	--	--	3858.73	--
MW-5	5/11/2021		3981.45	127.75	--	--	3853.7	--
MW-5	6/28/2021		3981.45	122.69	--	--	3858.76	--
MW-5	7/27/2021		3981.45	122.6	--	--	3858.85	--
MW-5	8/24/2021		3981.45	122.61	--	--	3858.84	--
MW-5	9/30/2021		3981.45	122.74	--	--	3858.71	136.42
MW-5	10/28/2021		3981.45	122.79	--	--	3858.66	136.42
MW-5	11/16/2021		3981.45	122.8	--	--	3858.65	136.42
MW-5	2/1/2022		3981.45	123.11	--	--	3858.34	136.42
MW-5	2/22/2022		3981.45	123.22	--	--	3858.23	136.31
MW-5	3/16/2022		3981.45	123.25	--	--	3858.2	136.31
MW-5	4/11/2022		3981.45	123.37	--	--	3858.08	136.31
MW-5	5/24/2022		3981.45	123.46	--	--	3857.99	136.31
MW-5	6/15/2022		3981.45	123.53	--	--	3857.92	136.31
MW-5	7/28/2022		3981.45	123.58	--	--	3857.87	136.31
MW-5	8/24/2022		3981.45	123.73	--	--	3857.72	136.31
MW-5	11/2/2022		3981.45	123.8	--	--	3857.65	136.31
MW-5	2/17/2023		3981.45	124.11	--	--	3857.34	136.41
MW-5	5/9/2023		3981.45	124.25	--	--	3857.2	136.41
MW-5	8/8/2023		3981.45	124.17	--	--	3857.28	136.41
MW-5	11/16/2023		3981.45	123.54	--	--	3857.91	--
MW-5	2/26/2024		3981.45	124.27	--	--	3857.18	136.41
MW-5	5/20/2024		3981.45	124.32	--	--	3857.13	136.25
MW-5	8/20/2024		3981.45	124.42	--	--	3857.03	136.29
MW-5	11/18/2024		3981.45	124.61	--	--	3856.84	136.35
MW-6	1/10/2020		3982.27	--	--	--	--	--
MW-6	2/19/2020		3982.27	--	--	--	--	--
MW-6	2/24/2020		3982.27	123.4	--	--	3858.87	139.87
MW-6	3/13/2020		3982.27	--	--	--	--	--
MW-6	4/29/2020		3982.27	123.51	--	--	3858.76	--
MW-6	5/26/2020		3982.27	123.41	--	--	3858.86	--
MW-6	6/16/2020		3982.27	123.41	--	--	3858.86	--
MW-6	7/30/2020		3982.27	123.41	--	--	3858.86	--
MW-6	8/26/2020		3982.27	123.44	--	--	3858.83	--
MW-6	9/17/2020		3982.27	123.44	--	--	3858.83	139.72
MW-6	10/21/2020		3982.27	123.46	--	--	3858.81	--
MW-6	11/4/2020		3982.27	123.5	--	--	3858.77	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-6	12/9/2020		3982.27	123.5	--	--	3858.77	--
MW-6	1/28/2021		3982.27	123.56	--	--	3858.71	--
MW-6	2/25/2021		3982.27	123.62	--	--	3858.65	139.7
MW-6	3/24/2021		3982.27	123.6	--	--	3858.67	--
MW-6	4/30/2021		3982.27	123.63	--	--	3858.64	--
MW-6	5/11/2021		3982.27	123.66	--	--	3858.61	--
MW-6	6/28/2021		3982.27	123.62	--	--	3858.65	--
MW-6	7/27/2021		3982.27	123.55	--	--	3858.72	--
MW-6	8/24/2021		3982.27	123.56	--	--	3858.71	--
MW-6	9/30/2021		3982.27	123.65	--	--	3858.62	139.7
MW-6	10/28/2021		3982.27	123.7	--	--	3858.57	139.7
MW-6	11/16/2021		3982.27	123.71	--	--	3858.56	139.7
MW-6	2/1/2022		3982.27	124.01	--	--	3858.26	139.7
MW-6	2/22/2022		3982.27	124.12	--	--	3858.15	139.61
MW-6	3/16/2022		3982.27	124.16	--	--	3858.11	139.61
MW-6	4/11/2022		3982.27	124.28	--	--	3857.99	139.61
MW-6	5/24/2022		3982.27	124.38	--	--	3857.89	139.61
MW-6	6/15/2022		3982.27	124.47	--	--	3857.8	139.61
MW-6	7/28/2022		3982.27	124.52	--	--	3857.75	139.61
MW-6	8/24/2022		3982.27	124.67	--	--	3857.6	139.61
MW-6	11/2/2022		3982.27	124.82	--	--	3857.45	139.61
MW-6	2/17/2023		3982.27	125.05	--	--	3857.22	139.55
MW-6	5/9/2023		3982.27	125.2	--	--	3857.07	139.55
MW-6	8/9/2023		3982.27	125.14	--	--	3857.13	139.55
MW-6	9/15/2023		--	125.17	--	--	--	139.55
MW-6	10/20/2023		3982.27	125.13	--	--	3857.14	--
MW-6	11/16/2023		3982.27	125.07	--	--	3857.2	--
MW-6	2/26/2024		3982.27	125.13	--	--	3857.14	139.55
MW-6	5/20/2024		3982.27	125.24	--	--	3857.03	139.45
MW-6	8/19/2024		3982.27	125.35	--	--	3856.92	139.35
MW-6	11/18/2024		3982.27	125.52	--	--	3856.75	141.14
MW-7	1/10/2020	LNAPL	3981.71	127.08	122.18	4.9	3858.599	--
MW-7	2/19/2020	LNAPL	3981.71	127.79	121.99	5.8	3858.618	--
MW-7	2/24/2020	LNAPL	3981.71	125.47	122.38	3.09	3858.743	--
MW-7	3/13/2020	LNAPL	3981.71	122.86	122.86	0	3858.85	--
MW-7	4/29/2020	LNAPL	3981.71	127.8	122.15	5.65	3858.487	--
MW-7	5/26/2020	LNAPL	3981.71	127.53	122.07	5.46	3858.603	--
MW-7	6/11/2020	LNAPL	3981.71	128.02	122.01	6.01	3858.558	--
MW-7	6/12/2020		3981.71	122.85	--	--	3858.86	--
MW-7	6/16/2020	LNAPL	3981.71	123.11	122.81	0.3	3858.843	--
MW-7	7/30/2020	LNAPL	3981.71	127.77	122	5.77	3858.614	--
MW-7	8/26/2020	LNAPL	3981.71	127.84	122.01	5.83	3858.592	--
MW-7	9/15/2020	LNAPL	3981.71	127.09	122.06	5.03	3858.694	--
MW-7	9/15/2020		3981.71	122.78	--	--	3858.93	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-7	9/17/2020	LNAPL	3981.71	122.92	122.89	0.03	3858.814	--
MW-7	10/21/2020	LNAPL	3981.71	127.3	122.17	5.13	3858.565	--
MW-7	11/4/2020	LNAPL	3981.71	126.64	122.35	4.29	3858.545	--
MW-7	12/9/2020	LNAPL	3981.71	128.37	122.07	6.3	3858.443	--
MW-7	1/28/2021	LNAPL	3981.71	128.7	122.12	6.58	3858.34	--
MW-7	2/25/2021	LNAPL	3981.71	128.58	122.22	6.36	3858.281	133.11
MW-7	3/24/2021	LNAPL	3981.71	127.19	122.33	4.86	3858.457	--
MW-7	4/30/2021	LNAPL	3981.71	128.65	122.11	6.54	3858.357	--
MW-7	5/11/2021	LNAPL	3981.71	128.84	122.13	6.71	3858.305	--
MW-7	6/28/2021	LNAPL	3981.71	128.9	122.04	6.86	3858.367	--
MW-7	7/27/2021	LNAPL	3981.71	128.67	121.99	6.68	3858.451	--
MW-7	8/24/2021	LNAPL	3981.71	128.96	121.95	7.01	3858.428	--
MW-7	9/30/2021	LNAPL	3981.71	127.92	122.3	5.62	3858.342	133.11
MW-7	10/28/2021	LNAPL	3981.71	127.97	122.35	5.62	3858.292	133.11
MW-7	11/16/2021	LNAPL	3981.71	129.15	122.16	6.99	3858.222	133.11
MW-7	2/1/2022	LNAPL	3981.71	129.08	122.55	6.53	3857.919	133.11
MW-7	2/22/2022	LNAPL	3981.71	129.05	122.67	6.38	3857.828	133.02
MW-7	3/16/2022	LNAPL	3981.71	129.33	122.71	6.62	3857.742	133.02
MW-7	4/11/2022	LNAPL	3981.71	126.96	123.25	3.71	3857.755	133.02
MW-7	5/24/2022	LNAPL	3981.71	126.35	123.54	2.81	3857.636	133.02
MW-7	6/15/2022	LNAPL	3981.71	124.99	123.76	1.23	3857.716	133.02
MW-7	7/28/2022	LNAPL	3981.71	124.4	123.97	0.43	3857.658	133.02
MW-7	8/24/2022	LNAPL	3981.71	124.72	124.1	0.62	3857.492	133.02
MW-7	10/6/2022	LNAPL	3981.71	124.39	124.25	0.14	3857.433	133.02
MW-7	10/6/2022		3981.71	124.98	--	--	3856.73	133.02
MW-7	11/2/2022	LNAPL	3981.71	124.21	124.18	0.03	3857.524	133.02
MW-7	11/2/2022		3981.71	125.06	--	--	3856.65	133.02
MW-7	11/30/2022	LNAPL	3981.71	124.62	124.51	0.11	3857.179	133.02
MW-7	11/30/2022	LNAPL	3981.71	124.57	124.56	0.01	3857.148	133.02
MW-7	1/23/2023	LNAPL	3981.71	125.28	124.44	0.84	3857.11	133.02
MW-7	2/17/2023	LNAPL	3981.71	125.45	124.6	0.85	3856.948	133.33
MW-7	3/1/2023	LNAPL	3981.71	125.61	124.51	1.1	3856.991	133.33
MW-7	4/24/2023	LNAPL	3981.71	125.85	124.5	1.35	3856.954	133.33
MW-7	5/9/2023	LNAPL	3981.71	126.09	124.38	1.71	3857.005	133.33
MW-7	6/16/2023	LNAPL	3981.71	124.65	124.53	0.12	3857.157	133.33
MW-7	7/21/2023	LNAPL	3981.71	124.62	124.5	0.12	3857.187	133.33
MW-7	8/31/2023	LNAPL	3981.71	127.59	124.05	3.54	3856.987	--
MW-7	9/15/2023	LNAPL	3981.71	128.15	124.4	3.75	3856.597	133.33
MW-7	10/20/2023	LNAPL	3981.71	125.2	124.52	0.68	3857.061	--
MW-7	11/16/2023	LNAPL	3981.71	126.27	124.31	1.96	3857.028	--
MW-7	2/26/2024	LNAPL	3981.71	125.59	124.46	1.13	3857.035	--
MW-7	5/20/2024	LNAPL	3981.71	127.57	124.25	3.32	3856.829	132.85
MW-7	8/20/2024	LNAPL	3981.71	127.4	124.36	3.04	3854.31	132.93
MW-7	11/18/2024	LNAPL	3981.71	129.27	124.39	4.88	3852.44	132.88

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-8	1/10/2020		3981.2	--	--	--	--	--
MW-8	2/19/2020		3981.2	--	--	--	--	--
MW-8	2/24/2020		3981.2	122.34	--	--	3858.86	136.44
MW-8	3/13/2020		3981.2	--	--	--	--	--
MW-8	4/29/2020		3981.2	122.49	--	--	3858.71	--
MW-8	5/26/2020		3981.2	122.39	--	--	3858.81	--
MW-8	6/16/2020		3981.2	122.4	--	--	3858.8	--
MW-8	7/30/2020		3981.2	122.39	--	--	3858.81	--
MW-8	8/26/2020		3981.2	122.42	--	--	3858.78	--
MW-8	9/15/2020		3981.2	122.42	--	--	3858.78	--
MW-8	9/15/2020		3981.2	122.47	--	--	3858.73	--
MW-8	9/17/2020		3981.2	122.4	--	--	3858.8	136.4
MW-8	10/21/2020		3981.2	122.45	--	--	3858.75	--
MW-8	11/4/2020		3981.2	122.51	--	--	3858.69	--
MW-8	12/9/2020		3981.2	122.51	--	--	3858.69	--
MW-8	1/28/2021		3981.2	122.57	--	--	3858.63	--
MW-8	2/25/2021		3981.2	122.6	--	--	3858.6	136.44
MW-8	3/24/2021		3981.2	122.58	--	--	3858.62	--
MW-8	4/30/2021		3981.2	122.58	--	--	3858.62	--
MW-8	5/11/2021		3981.2	122.63	--	--	3858.57	--
MW-8	6/28/2021		3981.2	122.55	--	--	3858.65	--
MW-8	7/27/2021		3981.2	122.5	--	--	3858.7	--
MW-8	8/24/2021		3981.2	122.5	--	--	3858.7	--
MW-8	9/30/2021		3981.2	122.66	--	--	3858.54	136.44
MW-8	10/28/2021		3981.2	122.71	--	--	3858.49	136.44
MW-8	11/16/2021		3981.2	122.73	--	--	3858.47	136.44
MW-8	2/1/2022		3981.2	123.08	--	--	3858.12	136.44
MW-8	2/22/2022		3981.2	123.14	--	--	3858.06	136.21
MW-8	3/16/2022		3981.2	123.22	--	--	3857.98	136.21
MW-8	4/11/2022		3981.2	123.28	--	--	3857.92	136.21
MW-8	5/24/2022		3981.2	123.5	--	--	3857.7	136.21
MW-8	6/15/2022		3981.2	123.51	--	--	3857.69	136.21
MW-8	7/28/2022		3981.2	123.57	--	--	3857.63	136.21
MW-8	8/24/2022		3981.2	123.72	--	--	3857.48	136.21
MW-8	11/2/2022		3981.2	123.87	--	--	3857.33	136.21
MW-8	1/23/2023		3981.2	124.12	--	--	3857.08	136.21
MW-8	2/17/2023		3981.2	124.17	--	--	3857.03	136.18
MW-8	3/1/2023		3981.2	124.17	--	--	3857.03	136.18
MW-8	4/24/2023		3981.2	124.22	--	--	3856.98	136.14
MW-8	5/9/2023		3981.2	124.17	--	--	3857.03	136.14
MW-8	6/16/2023		3981.2	124.09	--	--	3857.11	136.14
MW-8	7/21/2023		3981.2	124.13	--	--	3857.07	136.14
MW-8	8/9/2023		3981.2	124.09	--	--	3857.11	136.14
MW-8	9/15/2023		3981.2	124.16	--	--	3857.04	136.14

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-8	10/20/2023		3981.2	124.13	--	--	3857.07	--
MW-8	11/16/2023		3981.2	124.05	--	--	3857.15	--
MW-8	1/10/2024		3981.2	124.16	--	--	3857.04	--
MW-8	2/26/2024		3981.2	124.1	--	--	3857.1	136.14
MW-8	5/20/2024		3981.2	124.26	--	--	3856.94	136.06
MW-8	8/20/2024		3981.2	124.36	--	--	3856.84	136.12
MW-8	11/18/2024		3981.2	124.42	--	--	3856.78	141.93
MW-9	1/10/2020		3980.44	--	--	--	--	--
MW-9	2/19/2020		3980.44	--	--	--	--	--
MW-9	2/24/2020		3980.44	121.56	--	--	3858.88	140.78
MW-9	3/13/2020		3980.44	--	--	--	--	--
MW-9	4/29/2020		3980.44	121.69	--	--	3858.75	--
MW-9	5/26/2020		3980.44	121.59	--	--	3858.85	--
MW-9	6/16/2020		3980.44	121.57	--	--	3858.87	--
MW-9	7/30/2020		3980.44	121.55	--	--	3858.89	--
MW-9	8/26/2020		3980.44	121.6	--	--	3858.84	--
MW-9	9/17/2020		3980.44	121.64	--	--	3858.8	140.51
MW-9	10/21/2020		3980.44	121.63	--	--	3858.81	--
MW-9	11/4/2020		3980.44	121.7	--	--	3858.74	--
MW-9	12/9/2020		3980.44	121.66	--	--	3858.78	--
MW-9	1/28/2021		3980.44	121.77	--	--	3858.67	--
MW-9	2/25/2021		3980.44	121.88	--	--	3858.56	140.68
MW-9	3/24/2021		3980.44	121.74	--	--	3858.7	--
MW-9	4/30/2021		3980.44	121.8	--	--	3858.64	--
MW-9	5/11/2021		3980.44	121.81	--	--	3858.63	--
MW-9	6/28/2021		3980.44	121.73	--	--	3858.71	--
MW-9	7/27/2021		3980.44	122.66	--	--	3857.78	--
MW-9	8/24/2021		3980.44	121.66	--	--	3858.78	--
MW-9	9/30/2021		3980.44	121.85	--	--	3858.58	140.68
MW-9	10/28/2021		3980.44	121.9	--	--	3858.54	140.68
MW-9	11/16/2021		3980.44	121.92	--	--	3858.52	140.68
MW-9	2/1/2022		3980.44	122.27	--	--	3858.17	140.68
MW-9	2/22/2022		3980.44	122.41	--	--	3858.03	140.54
MW-9	3/16/2022		3980.44	122.41	--	--	3858.03	140.54
MW-9	4/11/2022		3980.44	122.5	--	--	3857.93	140.54
MW-9	5/24/2022		3980.44	122.68	--	--	3857.76	140.54
MW-9	6/15/2022		3980.44	122.78	--	--	3857.65	140.54
MW-9	7/28/2022		3980.44	122.76	--	--	3857.68	140.54
MW-9	8/24/2022		3980.44	122.94	--	--	3857.5	140.54
MW-9	11/2/2022		3980.44	123.08	--	--	3857.36	140.54
MW-9	2/17/2023		3980.44	123.35	--	--	3857.09	140.63
MW-9	5/9/2023		3980.44	123.48	--	--	3856.96	140.63
MW-9	8/8/2023		3980.44	123.3	--	--	3857.14	140.63
MW-9	11/16/2023		3980.44	123.21	--	--	3857.23	--

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-9	2/26/2024		3980.44	123.29	--	--	3857.15	140.63
MW-9	5/20/2024		3980.44	123.45	--	--	3856.99	140.43
MW-9	8/20/2024		3980.44	123.56	--	--	3856.88	140.49
MW-9	11/18/2024		3980.44	123.78	--	--	3856.66	140.51
MW-10	1/10/2020		3980.06	--	--	--	--	--
MW-10	2/19/2020		3980.06	--	--	--	--	--
MW-10	2/24/2020		3980.06	121.26	--	--	3858.8	141.52
MW-10	3/13/2020		3980.06	--	--	--	--	--
MW-10	4/29/2020		3980.06	121.41	--	--	3858.65	--
MW-10	5/26/2020		3980.06	121.31	--	--	3858.75	--
MW-10	6/16/2020		3980.06	121.29	--	--	3858.77	--
MW-10	7/30/2020		3980.06	121.28	--	--	3858.78	--
MW-10	8/26/2020		3980.06	121.32	--	--	3858.74	--
MW-10	9/17/2020		3980.06	121.34	--	--	3858.72	141.48
MW-10	10/21/2020		3980.06	121.37	--	--	3858.69	--
MW-10	11/4/2020		3980.06	121.42	--	--	3858.64	--
MW-10	12/9/2020		3980.06	121.42	--	--	3858.64	--
MW-10	1/28/2021		3980.06	121.49	--	--	3858.57	--
MW-10	2/25/2021		3980.06	121.48	--	--	3858.58	141.3
MW-10	3/24/2021		3980.06	121.46	--	--	3858.6	--
MW-10	4/30/2021		3980.06	121.5	--	--	3858.56	--
MW-10	5/11/2021		3980.06	121.54	--	--	3858.52	--
MW-10	6/28/2021		3980.06	121.46	--	--	3858.6	--
MW-10	7/27/2021		3980.06	121.37	--	--	3858.69	--
MW-10	8/24/2021		3980.06	121.39	--	--	3858.67	--
MW-10	9/30/2021		3980.06	121.56	--	--	3858.5	141.3
MW-10	10/28/2021		3980.06	121.63	--	--	3858.43	141.3
MW-10	11/16/2021		3980.06	121.64	--	--	3858.42	141.3
MW-10	2/1/2022		3980.06	122	--	--	3858.06	141.3
MW-10	2/22/2022		3980.06	122.1	--	--	3857.96	141.25
MW-10	3/16/2022		3980.06	122.13	--	--	3857.93	141.25
MW-10	4/11/2022		3980.06	122.22	--	--	3857.84	141.25
MW-10	5/24/2022		3980.06	122.42	--	--	3857.64	141.25
MW-10	6/15/2022		3980.06	122.48	--	--	3857.58	141.25
MW-10	7/28/2022		3980.06	122.51	--	--	3857.55	141.25
MW-10	8/24/2022		3980.06	122.67	--	--	3857.39	141.25
MW-10	11/2/2022		3980.06	122.46	--	--	3857.6	141.25
MW-10	2/17/2023		3980.06	123.1	--	--	3856.96	141.28
MW-10	4/24/2023		3980.06	123.18	--	--	3856.88	141.2
MW-10	5/9/2023		3980.06	123.17	--	--	3856.89	141.2
MW-10	6/16/2023		3980.06	123.03	--	--	3857.03	141.2
MW-10	7/21/2023		3980.06	123.04	--	--	3857.02	141.2
MW-10	8/8/2023		3980.06	123.05	--	--	3857.01	141.2
MW-10	9/15/2023		3980.06	123.11	--	--	3856.95	141.2

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-10	10/20/2023		3980.06	123.09	--	--	3856.97	--
MW-10	11/16/2023		3980.06	122.94	--	--	3857.12	--
MW-10	2/26/2024		3980.06	123.01	--	--	3857.05	141.2
MW-10	5/20/2024		3980.06	123.16	--	--	3856.9	141.14
MW-10	8/20/2024		3980.06	123.25	--	--	3856.81	141.11
MW-10	11/18/2024		3980.06	123.45	--	--	3856.61	141.43
MW-11	2/24/2020		3981.92	123	--	--	3858.92	142.94
MW-11	4/29/2020		3981.92	123.16	--	--	3858.76	--
MW-11	5/26/2020		3981.92	123.05	--	--	3858.87	--
MW-11	6/16/2020		3981.92	123.05	--	--	3858.87	--
MW-11	7/30/2020		3981.92	123.05	--	--	3858.87	--
MW-11	8/26/2020		3981.92	123.08	--	--	3858.84	--
MW-11	9/17/2020		3981.92	123.07	--	--	3858.85	141.79
MW-11	10/21/2020		3981.92	123.11	--	--	3858.81	--
MW-11	11/4/2020		3981.92	123.18	--	--	3858.74	--
MW-11	12/9/2020		3981.92	123.19	--	--	3858.73	--
MW-11	1/28/2021		3981.92	123.23	--	--	3858.69	--
MW-11	2/25/2021		3981.92	123.25	--	--	3858.67	141.7
MW-11	3/24/2021		3981.92	123.23	--	--	3858.69	--
MW-11	4/30/2021		3981.92	123.24	--	--	3858.68	--
MW-11	5/11/2021		3981.92	123.31	--	--	3858.61	--
MW-11	6/28/2021		3981.92	123.24	--	--	3858.68	--
MW-11	7/27/2021		3981.92	123.17	--	--	3858.75	--
MW-11	8/24/2021		3981.92	123.18	--	--	3858.74	--
MW-11	9/30/2021		3981.92	123.3	--	--	3858.62	141.7
MW-11	10/28/2021		3981.92	123.37	--	--	3858.55	141.7
MW-11	11/16/2021		3981.92	123.36	--	--	3858.56	141.7
MW-11	2/1/2022		3981.92	123.71	--	--	3858.21	141.7
MW-11	2/22/2022		3981.92	123.79	--	--	3858.13	141.69
MW-11	3/16/2022		3981.92	123.81	--	--	3858.11	141.69
MW-11	4/11/2022		3981.92	123.88	--	--	3858.04	141.69
MW-11	5/24/2022		3981.92	124.1	--	--	3857.82	141.69
MW-11	5/24/2022		3981.92	124.16	--	--	3857.76	141.69
MW-11	6/15/2022		3981.92	124.12	--	--	3857.8	141.69
MW-11	8/24/2022		3981.92	124.31	--	--	3857.61	141.69
MW-11	11/2/2022		3981.92	124.46	--	--	3857.46	141.69
MW-11	1/23/2023		3981.92	124.71	--	--	3857.21	141.69
MW-11	2/17/2023		3981.92	124.73	--	--	3857.19	141.83
MW-11	3/1/2023		3981.92	124.77	--	--	3857.15	141.83
MW-11	4/24/2023		3981.92	124.85	--	--	3857.07	141.62
MW-11	5/9/2023		3981.92	124.8	--	--	3857.12	141.62
MW-11	6/16/2023		3981.92	124.71	--	--	3857.21	141.62
MW-11	7/21/2023		3981.92	124.77	--	--	3857.15	141.62
MW-11	8/9/2023		3981.92	124.71	--	--	3857.21	141.62

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-11	9/15/2023		3981.92	124.81	--	--	3857.11	141.62
MW-11	10/20/2023		3981.92	124.78	--	--	3857.14	--
MW-11	11/16/2023		3981.92	124.69	--	--	3857.23	--
MW-11	2/26/2024		3981.92	124.74	--	--	3857.18	141.62
MW-11	5/20/2024		3981.92	124.9	--	--	3857.02	141.54
MW-11	8/20/2024		3981.92	124.98	--	--	3856.94	141.65
MW-11	11/18/2024		3981.92	125.15	--	--	3856.77	146.52
MW-12	1/10/2020	LNAPL	3982.15	123.48	123.25	0.23	3858.856	--
MW-12	2/19/2020	LNAPL	3982.15	123.54	123.2	0.34	3858.885	--
MW-12	2/24/2020	LNAPL	3982.15	123.38	123.2	0.18	3858.916	--
MW-12	3/13/2020	LNAPL	3982.15	123.5	123.24	0.26	3858.861	--
MW-12	4/29/2020	LNAPL	3982.15	123.76	123.34	0.42	3858.73	--
MW-12	5/26/2020	LNAPL	3982.15	123.56	123.23	0.33	3858.857	--
MW-12	6/16/2020	LNAPL	3982.15	123.65	123.22	0.43	3858.848	--
MW-12	7/30/2020	LNAPL	3982.15	123.7	123.23	0.47	3858.831	--
MW-12	8/26/2020	LNAPL	3982.15	123.66	123.25	0.41	3858.822	--
MW-12	9/15/2020	LNAPL	3982.15	123.41	123.25	0.16	3858.87	--
MW-12	9/15/2020	LNAPL	3982.15	123.71	123.32	0.39	3858.756	--
MW-12	9/17/2020	LNAPL	3982.15	123.57	123.27	0.3	3858.823	--
MW-12	10/21/2020	LNAPL	3982.15	123.8	123.28	0.52	3858.771	--
MW-12	11/4/2020	LNAPL	3982.15	123.74	123.35	0.39	3858.726	--
MW-12	12/9/2020	LNAPL	3982.15	123.91	123.34	0.57	3858.702	--
MW-12	1/28/2021	LNAPL	3982.15	123.9	123.4	0.5	3858.655	--
MW-12	2/25/2021	LNAPL	3982.15	123.88	123.38	0.5	3858.675	142.01
MW-12	3/24/2021	LNAPL	3982.15	123.98	123.37	0.61	3858.664	--
MW-12	4/30/2021	LNAPL	3982.15	124.19	123.37	0.82	3858.624	--
MW-12	5/11/2021	LNAPL	3982.15	124.28	123.42	0.86	3858.567	--
MW-12	6/28/2021	LNAPL	3982.15	124.36	123.31	1.05	3858.64	--
MW-12	7/27/2021	LNAPL	3982.15	124.38	123.21	1.17	3858.718	--
MW-12	8/24/2021	LNAPL	3982.15	124.53	123.21	1.32	3858.689	--
MW-12	9/30/2021	LNAPL	3982.15	124.35	123.43	0.92	3858.545	142.01
MW-12	10/28/2021	LNAPL	3982.15	124.4	123.48	0.92	3858.495	142.01
MW-12	11/16/2021	LNAPL	3982.15	124.61	123.4	1.21	3858.52	142.01
MW-12	2/1/2022	LNAPL	3982.15	124.53	123.8	0.73	3858.211	142.01
MW-12	2/22/2022	LNAPL	3982.15	124.7	123.93	0.77	3858.074	142.18
MW-12	3/16/2022	LNAPL	3982.15	124.75	123.96	0.79	3858.04	142.18
MW-12	4/11/2022	LNAPL	3982.15	124.9	124.08	0.82	3857.914	142.18
MW-12	5/24/2022	LNAPL	3982.15	125.1	124.22	0.88	3857.763	142.18
MW-12	6/15/2022	LNAPL	3982.15	124.87	124.25	0.62	3857.782	142.18
MW-12	7/25/2022	LNAPL	3982.15	124.95	124.33	0.62	3857.702	142.18
MW-12	8/24/2022	LNAPL	3982.15	125.13	124.47	0.66	3857.555	142.18
MW-12	10/6/2022	LNAPL	3982.15	125.23	124.25	0.98	3857.714	142.18
MW-12	10/6/2022	LNAPL	3982.15	124.69	124.68	0.01	3857.468	142.18
MW-12	11/2/2022	LNAPL	3982.15	124.79	124.66	0.13	3857.465	142.18

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-12	11/2/2022	LNAPL	3982.15	124.78	124.76	0.02	3857.386	142.18
MW-12	11/30/2022	LNAPL	3982.15	124.86	124.77	0.09	3857.363	142.18
MW-12	11/30/2022	LNAPL	3982.15	124.74	124.73	0.01	3857.418	142.18
MW-12	1/23/2023	LNAPL	3982.15	124.98	124.95	0.03	3857.194	142.18
MW-12	2/17/2023	LNAPL	3982.15	124.94	124.92	0.02	3857.226	142.27
MW-12	3/1/2023		3982.15	125.03	--	--	3857.12	142.27
MW-12	4/24/2023		3982.15	125.08	--	--	3857.07	142.2
MW-12	5/9/2023	LNAPL	3982.15	125.05	125	0.05	3857.14	142.2
MW-12	6/16/2023	LNAPL	3982.15	124.94	124.92	0.02	3857.226	142.2
MW-12	7/21/2023	LNAPL	3982.15	124.93	124.92	0.01	3857.228	142.2
MW-12	8/31/2023		3982.15	125	--	--	3857.15	--
MW-12	9/15/2023	LNAPL	3982.15	125.05	125.04	0.01	3857.108	142.2
MW-12	10/20/2023	LNAPL	3982.15	125.04	125.03	0.01	3857.118	--
MW-12	11/16/2023	LNAPL	3982.15	125	124.98	0.02	3857.166	--
MW-12	2/26/2024	LNAPL	3982.15	125.04	125.03	0.01	3857.118	--
MW-12	5/20/2024		3982.15	125.13	--	--	3857.02	142.16
MW-12	8/20/2024		3982.15	125.21	--	--	3856.94	142.2
MW-12	11/18/2024		3982.15	125.41	--	--	3856.74	142.18
MW-13	2/24/2020		3980.82	121.81	--	--	3859.01	141.36
MW-13	4/29/2020		3980.82	122	--	--	3858.82	--
MW-13	5/26/2020		3980.82	121.88	--	--	3858.94	--
MW-13	6/16/2020		3980.82	121.89	--	--	3858.93	--
MW-13	7/30/2020		3980.82	121.87	--	--	3858.95	--
MW-13	8/26/2020		3980.82	121.9	--	--	3858.92	--
MW-13	9/17/2020		3980.82	121.92	--	--	3858.9	141.31
MW-13	10/21/2020		3980.82	121.93	--	--	3858.89	--
MW-13	11/4/2020		3980.82	122.01	--	--	3858.81	--
MW-13	12/9/2020		3980.82	121.97	--	--	3858.85	--
MW-13	1/28/2021		3980.82	122.05	--	--	3858.77	--
MW-13	2/25/2021		3980.82	122.11	--	--	3858.71	141.42
MW-13	3/24/2021		3980.82	122.06	--	--	3858.76	--
MW-13	4/30/2021		3980.82	122.1	--	--	3858.72	--
MW-13	5/11/2021		3980.82	122.13	--	--	3858.69	--
MW-13	6/28/2021		3980.82	122.27	--	--	3858.55	--
MW-13	7/27/2021		3980.82	121.97	--	--	3858.85	--
MW-13	8/24/2021		3980.82	121.88	--	--	3858.94	--
MW-13	9/30/2021		3980.82	122.37	--	--	3858.45	141.42
MW-13	10/28/2021		3980.82	122.4	--	--	3858.42	141.42
MW-13	11/16/2021		3980.82	122.48	--	--	3858.34	141.42
MW-13	2/1/2022		3980.82	122.54	--	--	3858.28	141.42
MW-13	2/22/2022		3980.82	122.64	--	--	3858.18	141.26
MW-13	3/16/2022		3980.82	122.67	--	--	3858.15	141.26
MW-13	4/11/2022		3980.82	122.82	--	--	3858	141.26
MW-13	5/24/2022		3980.82	122.86	--	--	3857.96	141.26

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-13	6/15/2022		3980.82	123	--	--	3857.82	141.26
MW-13	7/28/2022		3980.82	123.05	--	--	3857.77	141.26
MW-13	8/24/2022		3980.82	123.19	--	--	3857.63	141.26
MW-13	11/2/2022		3980.82	123.34	--	--	3857.48	141.26
MW-13	2/17/2023		3980.82	123.63	--	--	3857.19	141.37
MW-13	5/9/2023		3980.82	123.67	--	--	3857.15	141.37
MW-13	8/8/2023		3980.82	123.59	--	--	3857.23	141.37
MW-13	11/16/2023		3980.82	124.08	--	--	3856.74	--
MW-13	2/26/2024		3980.82	123.64	--	--	3857.18	141.37
MW-13	5/20/2024		3980.82	123.74	--	--	3857.08	141.2
MW-13	8/20/2024		3980.82	123.83	--	--	3856.99	141.26
MW-13	11/18/2024		3980.82	124.03	--	--	3856.79	141.3
MW-14	2/24/2020		3981.35	122.38	--	--	3858.97	141.49
MW-14	4/29/2020		3981.35	122.53	--	--	3858.82	--
MW-14	5/26/2020		3981.35	122.42	--	--	3858.93	--
MW-14	6/16/2020		3981.35	122.42	--	--	3858.93	--
MW-14	7/30/2020		3981.35	122.42	--	--	3858.93	--
MW-14	8/26/2020		3981.35	122.44	--	--	3858.91	--
MW-14	9/17/2020		3981.35	122.48	--	--	3858.87	141.44
MW-14	10/21/2020		3981.35	122.48	--	--	3858.87	--
MW-14	11/4/2020		3981.35	122.55	--	--	3858.8	--
MW-14	12/9/2020		3981.35	122.52	--	--	3858.83	--
MW-14	1/28/2021		3981.35	122.65	--	--	3858.7	--
MW-14	2/25/2021		3981.35	122.67	--	--	3858.68	141.41
MW-14	3/24/2021		3981.35	122.61	--	--	3858.74	--
MW-14	4/30/2021		3981.35	122.64	--	--	3858.71	--
MW-14	5/11/2021		3981.35	122.67	--	--	3858.68	--
MW-14	6/28/2021		3981.35	122.62	--	--	3858.73	--
MW-14	7/27/2021		3981.35	122.55	--	--	3858.8	--
MW-14	8/24/2021		3981.35	122.57	--	--	3858.78	--
MW-14	9/30/2021		3981.35	122.68	--	--	3858.67	141.41
MW-14	10/28/2021		3981.35	122.74	--	--	3858.61	141.41
MW-14	11/16/2021		3981.35	122.76	--	--	3858.59	141.41
MW-14	2/1/2022		3981.35	123.07	--	--	3858.28	141.41
MW-14	2/22/2022		3981.35	123.15	--	--	3858.2	141.41
MW-14	3/16/2022		3981.35	123.18	--	--	3858.17	141.41
MW-14	4/11/2022		3981.35	123.32	--	--	3858.03	141.41
MW-14	5/24/2022		3981.35	123.36	--	--	3857.99	141.41
MW-14	6/15/2022		3981.35	123.48	--	--	3857.87	141.41
MW-14	7/28/2022		3981.35	123.48	--	--	3857.87	141.41
MW-14	8/24/2022		3981.35	123.67	--	--	3857.68	141.41
MW-14	11/2/2022		3981.35	123.82	--	--	3857.53	141.41
MW-14	2/17/2023		3981.35	124.12	--	--	3857.23	141.5
MW-14	5/9/2023		3981.35	124.15	--	--	3857.2	141.5

Table 1

Summary of Groundwater Gauging and Elevation Data
Plains All American Pipeline, L.P.
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Notes	Top-of-Casing Elevation	Depth to Groundwater	Depth to LNAPL	Thickness of LNAPL	Corrected Groundwater Elevation	Total Depth of Well
MW-14	8/8/2023		3981.35	124.12	--	--	3857.23	141.5
MW-14	11/16/2023		3981.35	124.08	--	--	3857.27	--
MW-14	2/26/2024		3981.35	124.16	--	--	3857.19	141.5
MW-14	5/20/2024		3981.35	124.26	--	--	3857.09	141.33
MW-14	8/20/2024		3981.35	124.35	--	--	3857	141.4
MW-14	11/18/2024		3981.35	124.54	--	--	3856.81	141.5

Notes:
1. All dates are in the format: MM/DD/YY
2. --: No gauging data collected on corresponding date
3. LNAPL: Light Non-Aqueous Phase Liquids
4. Elevations of the potentiometric surface were calculated using a LNAPL specific gravity of 0.81 gram/cubic centimenter (g/cc)

Table 2

Summary of Groundwater Analytical Results
Plains All American Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6
SRS No. Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Sample Type	Benzene	Toluene	Ethylbenzene	Xylenes (total)
New Mexico Water Quality Control Commission (NMWCC) Human Health Standards			**0.01**	**0.75**	**0.75**	**0.62**
MW-1	02/25/20	DUP	**0.0529**	**0.0876**	**0.0398**	**0.0696**
MW-1	02/25/20		**0.0537**	**0.105**	**0.0472**	**0.083**
MW-1	05/27/20		**0.0213**	**0.0462**	**0.0175**	**0.0201**
MW-1	09/18/20	DUP	**0.0243**	**0.0493**	**0.019**	**0.0337**
MW-1	09/18/20		**0.0263**	**0.0523**	**0.0204**	**0.0362**
MW-1	11/04/20		**0.0192**	**0.0275**	**0.0115**	**0.0151**
MW-1	02/25/21	DUP	**0.00522**	**0.0156**	**0.00656**	**0.0105**
MW-1	02/25/21		**0.00618**	**0.018**	**0.00752**	**0.0119**
MW-1	05/12/21		**0.038**	**0.0152**	**0.00876**	**0.0146**
MW-1	08/25/21	DUP	**0.0143**	**0.0452**	**0.0176**	**0.0326**
MW-1	08/25/21		**0.0137**	**0.0417**	**0.0164**	**0.0312**
MW-1	11/16/21		**0.092**	**0.283**	**0.11**	**0.132**
MW-1	02/22/22		**0.00796**	**0.0171**	**0.00659**	**0.0142**
MW-1	05/25/22		**0.0198**	**0.0812**	**0.0285**	**0.0511**
MW-1	09/13/22		**0.0458**	**0.0675**	**0.026**	**0.0532**
MW-1	11/03/22		**0.0683**	**0.15**	**0.0619**	**0.0908**
MW-1	02/17/23		**0.00734**	**0.0233**	**0.00765**	**0.0317**
MW-1	05/09/23		**0.0163**	**0.0666**	**0.0299**	**0.0643**
MW-1	08/08/23		**0.0177**	**0.0349**	**0.012**	**0.0252**
MW-1	11/16/23		**0.0351**	**0.0349**	**0.00856**	**0.0324**
MW-1	02/29/24		**0.00536**	**0.00431**	**0.00105**	**0.00379**
MW-1	05/20/24		**0.0059**	**0.019**	**0.0062**	**0.007**
MW-1	08/20/24		<0.001	**0.0035**	**0.002**	**0.0054**
MW-1	11/18/24		**0.0028**	**0.0096**	**0.0058**	**0.01**
MW-2	02/25/20		**0.000297 J**	<0.000412	<0.00016	<0.00051
MW-2	05/27/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	09/18/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	11/04/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	02/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	05/12/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	08/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	11/16/21		**0.000123 J**	<0.000278	<0.000137	<0.000174
MW-2	02/22/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	05/25/22		<0.000493	<0.000998	<0.000462	<0.00132
MW-2	09/13/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	11/03/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	02/17/23		<0.00019	<0.000412	<0.00016	<0.00051
MW-2	05/09/23		**0.000288 J**	<0.001	<0.0005	<0.0015
MW-2	08/08/23		**0.00104 B**	<0.001	<0.0005	<0.0015
MW-2	11/16/23		<0.0005	<0.001	<0.0005	<0.0015
MW-2	02/27/24		<0.0005	<0.001	<0.0005	<0.0015
MW-2	05/20/24		<0.001	<0.001	<0.001	<0.003
MW-2	08/19/24		<0.001	<0.001	<0.001	<0.003
MW-2	11/18/24		<0.001	<0.001	<0.001	<0.003
MW-3	02/25/20		**0.00082**	<0.000412	<0.00016	<0.00051
MW-3	05/27/20		**0.000825**	<0.000412	<0.00016	<0.00051
MW-3	09/18/20		**0.000475 J**	**0.000542 J**	**0.000615**	**0.00165**
MW-3	11/04/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-3	02/25/21		**0.000353 J**	<0.000412	<0.00016	<0.00051
MW-3	05/12/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-3	08/25/21		**0.000861**	<0.000412	<0.00016	<0.00051

Released to Imaging: 10/8/2025 2:00:48 PM

Table 2

Summary of Groundwater Analytical Results
Plains All American Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6
SRS No. Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Sample Type	Benzene	Toluene	Ethylbenzene	Xylenes (total)
New Mexico Water Quality Control Commission (NMWCC) Human Health Standards			**0.01**	**0.75**	**0.75**	**0.62**
MW-3	11/16/21		**0.000253 J**	<0.000278	<0.000137	<0.000174
MW-3	02/22/22	DUP	**0.000388 J**	**0.00175**	**0.000415 J**	**0.00304**
MW-3	02/22/22		**0.000335 J**	<0.000412	<0.00016	<0.00051
MW-3	05/25/22		**0.000539 J**	<0.000998	<0.000462	<0.00132
MW-3	09/13/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-3	11/03/22		**0.007**	<0.000412	<0.00016	<0.00051
MW-3	02/17/23		**0.000617**	<0.000412	<0.00016	<0.00051
MW-3	05/09/23		**0.00177**	<0.001	<0.0005	<0.0015
MW-3	08/08/23		**0.00239 B**	<0.001	<0.0005	<0.0015
MW-3	11/16/23		**0.00254**	<0.001	<0.0005	<0.0015
MW-3	02/27/24		<0.0005	<0.001	<0.0005	<0.0015
MW-3	05/20/24		<0.001	<0.001	<0.001	<0.003
MW-3	08/19/24		<0.001	<0.001	<0.001	<0.003
MW-3	11/18/24		<0.001	<0.001	<0.001	<0.003
MW-4	02/24/20		**0.00058**	<0.000412	**0.000283 J**	**0.000512 J**
MW-4	05/27/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-4	09/17/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-4	11/04/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-4	02/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-4	05/12/21		<0.00019	<0.000412	**0.00033 J**	<0.00051
MW-4	08/24/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-4	11/16/21		<0.0000941	<0.000278	<0.000137	<0.000174
MW-4	02/22/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-4	05/25/22		<0.000493	<0.000998	<0.000462	<0.00132
MW-4	09/13/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-4	11/03/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-4	02/17/23		<0.00019	<0.000412	<0.00016	<0.00051
MW-4	05/09/23		<0.0005	<0.001	<0.0005	<0.0015
MW-4	08/08/23		<0.0005	<0.001	<0.0005	<0.0015
MW-4	11/16/23		<0.0005	<0.001	<0.0005	<0.0015
MW-4	02/27/24		<0.0005	<0.001	<0.0005	<0.0015
MW-4	05/20/24		<0.001	<0.001	<0.001	<0.003
MW-4	08/20/24		<0.001	<0.001	<0.001	<0.003
MW-4	11/18/24		<0.001	<0.001	<0.001	<0.003
MW-5	02/25/20		**0.000247 J**	<0.000412	<0.00016	<0.00051
MW-5	05/27/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-5	09/18/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-5	11/04/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-5	02/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-5	05/12/21		<0.00019	<0.000412	**0.000247 J**	<0.00051
MW-5	08/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-5	11/16/21		<0.0000941	<0.000278	<0.000137	<0.000174
MW-5	02/22/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-5	05/25/22		<0.000493	<0.000998	<0.000462	<0.00132
MW-5	09/13/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-5	11/03/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-5	02/17/23		<0.00019	<0.000412	<0.00016	<0.00051
MW-5	05/09/23		<0.0005	<0.001	<0.0005	<0.0015
MW-5	08/08/23		**0.00111 B**	**0.00153 B**	**0.00061 B**	**0.0021 B**
MW-5	11/16/23		<0.0005	<0.001	<0.0005	<0.0015
MW-5	02/27/24		<0.0005	<0.001	<0.0005	<0.0015

Released to Imaging: 10/8/2025 2:00:48 PM

Table 2

Summary of Groundwater Analytical Results
Plains All American Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6
SRS No. Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Sample Type	Benzene	Toluene	Ethylbenzene	Xylenes (total)
New Mexico Water Quality Control Commission (NMWCC) Human Health Standards			**0.01**	**0.75**	**0.75**	**0.62**
MW-5	05/20/24		<0.001	<0.001	<0.001	<0.003
MW-5	08/19/24		<0.001	<0.001	<0.001	<0.003
MW-5	11/18/24		<0.001	<0.001	<0.001	<0.003
MW-6	02/25/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-6	05/27/20		<0.00019	<0.000412	**0.000208 J**	**0.000709 J**
MW-6	09/18/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-6	11/04/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-6	02/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-6	05/12/21		<0.00019	<0.000412	**0.000477 J**	<0.00051
MW-6	08/25/21		**0.000344 J**	<0.000412	<0.00016	<0.00051
MW-6	11/16/21		**0.000246 J**	<0.000278	<0.000137	**0.000208 J**
MW-6	02/22/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-6	05/25/22		<0.000493	<0.000998	<0.000462	<0.00132
MW-6	09/13/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-6	11/03/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-6	02/17/23	DUP	<0.00019	**0.000481 J**	<0.00016	<0.00051
MW-6	02/17/23		<0.00019	<0.000412	<0.00016	<0.00051
MW-6	05/09/23		<0.0005	<0.001	<0.0005	<0.0015
MW-6	08/09/23		**0.0243**	**0.0103**	**0.0019 B**	**0.0159**
MW-6	11/16/23	DUP	<0.0005	<0.001	<0.0005	<0.0015
MW-6	11/16/23		<0.0005	<0.001	<0.0005	<0.0015
MW-6	02/29/24		<0.0005	<0.001	<0.0005	<0.0015
MW-6	05/20/24		<0.001	<0.001	<0.001	<0.003
MW-6	08/19/24		<0.001	<0.001	<0.001	<0.003
MW-6	11/18/24		<0.001	<0.001	<0.001	<0.003
MW-7	02/24/20		-	-	-	-
MW-7	05/26/20		-	-	-	-
MW-7	09/15/20		-	-	-	-
MW-7	09/17/20		-	-	-	-
MW-7	11/04/20		-	-	-	-
MW-7	02/25/21		-	-	-	-
MW-7	05/11/21		-	-	-	-
MW-7	02/22/22		-	-	-	-
MW-7	05/24/22		-	-	-	-
MW-7	11/02/22		-	-	-	-
MW-7	02/17/23		-	-	-	-
MW-8	02/24/20		**2.22**	**0.783**	**0.099**	**0.412**
MW-8	05/27/20		**3.06**	**0.876**	**0.0507**	**0.232**
MW-8	09/17/20		**2.01**	**0.0873**	**0.0371**	**0.187**
MW-8	11/04/20		**2.42**	**0.751**	**0.0879**	**0.344**
MW-8	02/25/21		**2.63**	**1.07**	**0.103**	**0.481**
MW-8	05/12/21	DUP	**2.09**	**0.192**	**0.0396**	**0.179**
MW-8	05/12/21		**1.78**	**0.24**	**0.0417**	**0.204**
MW-8	08/24/21		**2.63**	**1.3**	**0.0945**	**0.668**
MW-8	11/16/21		**1.61**	**0.403**	**0.0499**	**0.24**
MW-8	02/22/22		**1.56**	**0.149**	**0.0237**	**0.119**
MW-8	05/25/22		**2**	**0.368**	**0.035**	**0.224**
MW-8	09/13/22		**2.14**	**0.47**	**0.0322**	**0.217**
MW-8	11/03/22	DUP	**1.44**	**0.11**	**0.0276**	**0.132**
MW-8	11/03/22		**1.19**	**0.0615**	**0.0222**	**0.106**
MW-8	02/17/23		**1.92**	**1.91**	**0.0362**	**0.354**

Released to Imaging: 10/8/2025 2:00:48 PM

Table 2

Summary of Groundwater Analytical Results
Plains All American Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6
SRS No. Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Sample Type	Benzene	Toluene	Ethylbenzene	Xylenes (total)
New Mexico Water Quality Control Commission (NMWCC) Human Health Standards			**0.01**	**0.75**	**0.75**	**0.62**
MW-8	05/09/23	DUP	**2.08**	**0.997**	**0.0621**	**0.586**
MW-8	05/09/23		**2.41**	**1.19**	**0.0716**	**0.68**
MW-8	08/09/23		**3.68**	**0.62**	**0.0542**	**0.394**
MW-8	11/16/23		**2.88**	**0.311**	**0.0649**	**0.492**
MW-8	02/29/24	DUP	**3.03**	**0.657**	**0.0594**	**0.444**
MW-8	02/29/24		**2.48**	**0.547**	**0.048**	**0.516**
MW-8	05/20/24	DUP	**1.1**	**0.28**	**0.021**	**0.26**
MW-8	05/20/24		**1.2**	**0.33**	**0.024**	**0.3**
MW-8	08/19/24	DUP	**0.38**	**0.18**	**0.0088**	**0.094**
MW-8	08/19/24		**0.53**	**0.14**	**0.008**	**0.089**
MW-8	11/19/24	DUP	**0.066**	**0.02**	**0.0023**	**0.018**
MW-8	11/19/24		**0.062**	**0.018**	**0.0021**	**0.016**
MW-9	02/25/20	DUP	**0.00609**	<0.000412	<0.00016	<0.00051
MW-9	02/25/20		**0.00571**	<0.000412	<0.00016	<0.00051
MW-9	05/27/20	DUP	**0.00984**	<0.000412	**0.000192 J**	**0.00115 J**
MW-9	05/27/20		**0.00401**	<0.000412	<0.00016	<0.00051
MW-9	09/18/20		**0.0053**	<0.000412	<0.00016	<0.00051
MW-9	11/04/20	DUP	**0.00281**	**0.000463 J**	**0.000172 J**	<0.00051
MW-9	11/04/20		**0.00318**	<0.000412	<0.00016	<0.00051
MW-9	02/25/21		**0.00301**	<0.000412	<0.00016	<0.00051
MW-9	05/12/21		**0.00229**	**0.000458 J**	<0.00016	<0.00051
MW-9	08/25/21		**0.00351**	<0.000412	<0.00016	<0.00051
MW-9	11/16/21		**0.00343**	<0.000278	**0.000146 J**	**0.000422 J**
MW-9	02/22/22		**0.00144**	**0.000453 J**	<0.00016	<0.00051
MW-9	05/25/22		**0.00176 J**	<0.000998	<0.000462	<0.00132
MW-9	09/13/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-9	11/03/22		**0.00459**	<0.000412	<0.00016	<0.00051
MW-9	02/17/23		**0.000624**	<0.000412	<0.00016	<0.00051
MW-9	05/09/23		**0.000435 J**	<0.001	<0.0005	<0.0015
MW-9	08/08/23		**0.00184 B**	<0.001	<0.0005	<0.0015
MW-9	11/16/23		**0.00174**	<0.001	<0.0005	<0.0015
MW-9	02/29/24		<0.0005	<0.001	<0.0005	<0.0015
MW-9	05/20/24		<0.001	<0.001	<0.001	<0.003
MW-9	08/20/24		<0.001	<0.001	<0.001	<0.003
MW-9	11/18/24		<0.001	<0.001	<0.001	<0.003
MW-10	02/25/20		**0.00353**	<0.000412	<0.00016	<0.00051
MW-10	05/27/20		**0.00258**	<0.000412	<0.00016	<0.00051
MW-10	09/17/20		**0.0022**	<0.000412	<0.00016	<0.00051
MW-10	11/04/20		**0.00164**	<0.000412	<0.00016	<0.00051
MW-10	02/25/21		**0.000851**	<0.000412	<0.00016	<0.00051
MW-10	05/12/21		**0.000823**	**0.000467 J**	<0.00016	<0.00051
MW-10	08/25/21		**0.000584**	<0.000412	<0.00016	<0.00051
MW-10	11/16/21		**0.00402**	<0.000278	<0.000137	<0.000174
MW-10	02/22/22		**0.00162**	**0.00048 J**	<0.00016	<0.00051
MW-10	05/25/22		**0.00207**	<0.000998	<0.000462	<0.00132
MW-10	09/13/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-10	11/03/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-10	02/17/23		**0.000909**	<0.000412	<0.00016	<0.00051
MW-10	05/09/23		**0.000506**	<0.001	<0.0005	<0.0015
MW-10	08/08/23		**0.000912 B**	<0.001	<0.0005	<0.0015
MW-10	11/16/23		<0.0005	<0.001	<0.0005	<0.0015

Released to Imaging: 10/8/2025 2:00:48 PM

Table 2

Summary of Groundwater Analytical Results
Plains All American Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6
SRS No. Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Sample Type	Benzene	Toluene	Ethylbenzene	Xylenes (total)
New Mexico Water Quality Control Commission (NMWCC) Human Health Standards			**0.01**	**0.75**	**0.75**	**0.62**
MW-10	02/29/24		<0.0005	<0.001	<0.0005	<0.0015
MW-10	05/20/24		<0.001	<0.001	<0.001	<0.003
MW-10	08/20/24		**0.0029**	<0.001	<0.001	<0.003
MW-10	11/18/24		<0.001	<0.001	<0.001	<0.003
MW-11	02/24/20		**0.117**	**0.00785**	**0.005**	**0.0305**
MW-11	05/27/20		**0.00193**	<0.000412	**0.000191 J**	<0.00051
MW-11	09/17/20		**0.00287**	<0.000412	**0.00243**	**0.000799 J**
MW-11	11/04/20		**0.0138**	<0.000412	**0.00177**	**0.00142 J**
MW-11	02/25/21		**0.0429**	**0.000905 J**	**0.00459**	**0.00545**
MW-11	05/12/21		**0.0144**	<0.000412	**0.00339**	**0.00148 J**
MW-11	08/25/21		**0.00644**	<0.000412	<0.00016	<0.00051
MW-11	11/16/21	DUP	**0.231**	**0.00804**	**0.00637**	**0.0343**
MW-11	11/16/21		**0.238**	**0.00813**	**0.00645**	**0.0342**
MW-11	02/22/22		**0.0127**	<0.000412	**0.000191 J**	**0.000667 J**
MW-11	05/25/22		**0.0316**	<0.000998	<0.000462	**0.00288 J**
MW-11	09/13/22		**0.0057**	<0.000412	<0.00016	<0.00051
MW-11	11/03/22		**0.0146**	<0.000412	<0.00016	<0.00051
MW-11	02/17/23		<0.00019	<0.000412	<0.00016	<0.00051
MW-11	05/09/23		**0.0158**	<0.001	<0.0005	<0.0015
MW-11	08/09/23		**0.104**	**0.00167 B**	**0.00109 B**	**0.00283 B**
MW-11	11/16/23		**0.0107**	<0.001	<0.0005	<0.0015
MW-11	02/29/24	DUP	<0.0005	<0.001	<0.0005	<0.0015
MW-11	02/29/24		<0.0005	<0.001	<0.0005	<0.0015
MW-11	05/21/24	DUP	**0.0095**	<0.001	<0.001	<0.003
MW-11	05/21/24		**0.0084**	<0.001	<0.001	<0.003
MW-11	08/20/24	DUP	**0.0041**	<0.001	<0.001	<0.003
MW-11	08/20/24		**0.0054**	<0.001	<0.001	<0.003
MW-11	11/19/24	DUP	**0.018**	<0.001	<0.001	**0.0045**
MW-11	11/19/24		**0.017**	<0.001	<0.001	**0.0045**
MW-12	02/24/20		-	-	-	-
MW-12	05/26/20		-	-	-	-
MW-12	09/17/20		-	-	-	-
MW-12	11/04/20		-	-	-	-
MW-12	02/25/21		-	-	-	-
MW-12	05/11/21		-	-	-	-
MW-12	02/22/22		-	-	-	-
MW-12	05/24/22		-	-	-	-
MW-12	02/17/23		-	-	-	-
MW-12	05/21/24		**0.19**	**0.066**	**0.016**	**0.039**
MW-12	11/19/24		**0.46**	**0.052**	**0.015**	**0.055**
MW-13	02/25/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	05/27/20	DUP	**0.00072**	<0.000412	<0.00016	<0.00051
MW-13	05/27/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	09/18/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	11/04/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	02/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	05/12/21		<0.00019	<0.000412	**0.000161 J**	<0.00051
MW-13	08/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	11/16/21		<0.0000941	<0.000278	<0.000137	<0.000174
MW-13	02/22/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	05/25/22		<0.000493	<0.000998	<0.000462	<0.00132

Released to Imaging: 10/8/2025 2:00:48 PM

Table 2

Summary of Groundwater Analytical Results
Plains All American Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6
SRS No. Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No: nAPP2108849308

Monitoring Well ID	Sample Date	Sample Type	Benzene	Toluene	Ethylbenzene	Xylenes (total)
New Mexico Water Quality Control Commission (NMWCC) Human Health Standards			**0.01**	**0.75**	**0.75**	**0.62**
MW-13	09/13/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	11/03/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	02/17/23		<0.00019	<0.000412	<0.00016	<0.00051
MW-13	05/09/23		<0.0005	<0.001	<0.0005	<0.0015
MW-13	08/08/23		<0.0005	<0.001	<0.0005	<0.0015
MW-13	11/16/23		<0.0005	<0.001	<0.0005	<0.0015
MW-13	02/29/24		<0.0005	<0.001	<0.0005	<0.0015
MW-13	05/20/24		<0.001	<0.001	<0.001	<0.003
MW-13	08/20/24		<0.001	<0.001	<0.001	<0.003
MW-13	11/18/24		<0.001	<0.001	<0.001	<0.003
MW-14	02/25/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	05/27/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	09/18/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	11/04/20		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	02/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	05/12/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	08/25/21		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	11/16/21		<0.0000941	<0.000278	<0.000137	<0.000174
MW-14	02/22/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	05/25/22		<0.000493	<0.000998	<0.000462	<0.00132
MW-14	09/13/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	11/03/22		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	02/17/23		<0.00019	<0.000412	<0.00016	<0.00051
MW-14	05/09/23		<0.0005	<0.001	<0.0005	<0.0015
MW-14	08/08/23		<0.0005	<0.001	<0.0005	<0.0015
MW-14	11/16/23		<0.0005	<0.001	<0.0005	<0.0015
MW-14	02/29/24		<0.0005	<0.001	<0.0005	<0.0015
MW-14	05/20/24		<0.001	<0.001	<0.001	<0.003
MW-14	08/20/24		<0.001	<0.001	<0.001	<0.003
MW-14	11/18/24		<0.001	<0.001	<0.001	<0.003

Notes:
1. Analytical results are presented in milligrams per liter (mg/L)
2. All dates are in the format: MM/DD/YY
3. Shaded results indicates results exceeding their respective New Mexico Water Quality Control Commission (NMWCC) Human
4. Bolded results indicate analyte was detected above the laboratory detection limit
5. <: Analyte was not detected at or above the laboratory reporting limit
6. J: Concentration is less than the quantitation limit and is an estimated value
7. B: The sample matrix interfered with the ability to make any accurate determination or the analyte was detected in the associated
8. -: Not Analyzed
9. DUP: Duplicate Sample
10. LNAPL: Light Non-Aqueous Phase Liquids

Released to Imaging: 10/8/2025 2:00:48 PM

Table 3

Summary of Groundwater PAH Compound Analytical Results
Plains All American Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No. nAPP2108849308

Monitoring Well ID	Sample Date	Sample Type	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	<0.00000410	<0.0000116	**0.00000549 J**	**0.00000294 J**	<0.0000136	**0.0000125 J**	<0.00000396	**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	10/17/19	**DUP**	<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	<0.00000270	<0.0000169	<0.0000158	<0.0000917	<0.00000180	<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**

Released to Imaging: 10/8/2025 2:00:48 PM

Table 3

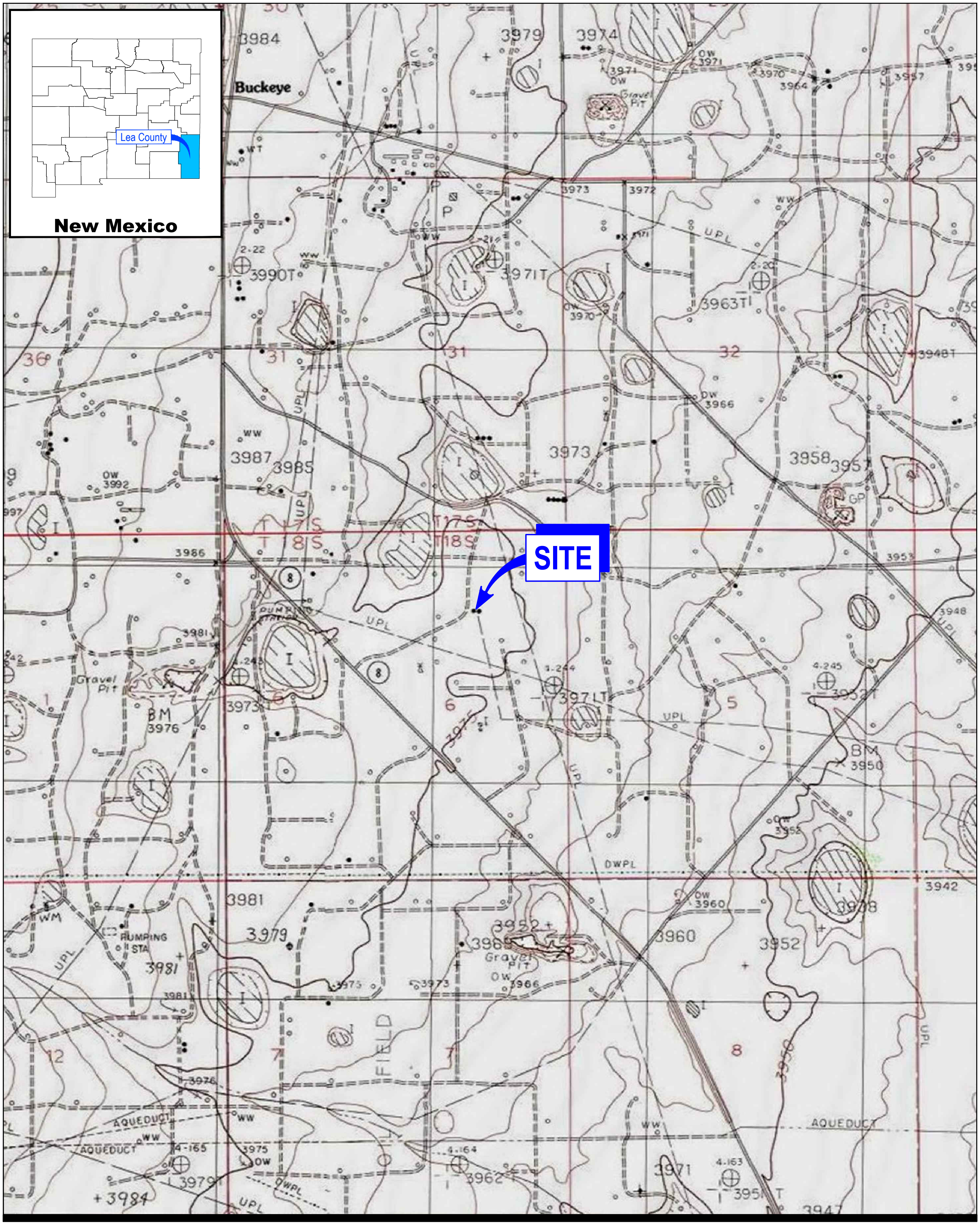
Summary of Groundwater PAH Compound Analytical Results
Plains All American Pipeline, L.P.
Chevron Grayburg 6-Inch Sec. 6 (Historical)
SRS Chevron Grayburg 6-Inch Historical
Lea County, New Mexico
NMOCD Incident No. nAPP2108849308

Monitoring Well ID	Sample Date	Sample Type	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-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-8	1/10/24		<0.0000500	**0.000246**	<0.0000500	<0.0000500	<0.0000500	<0.0000500	<0.0000500	<0.0000500	<0.0000500	<0.0000500	**0.00177**	<0.000100	**0.00139**	<0.0000500	**0.0182**	**0.00141**	<0.0000500	**0.0166**	**0.00669**
MW-8	11/19/24		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0034**	<0.001	<0.001	NA	NA
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**	**0.0000656**	<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	<0.000203	<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**	**0.000347**	<0.000184	NA	NA
MW-10	11/15/18		<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	<0.00000105	<0.0000157	<0.00000850	<0.0000148	**0.000214 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-10	10/16/19		<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000443**	<0.0000157	**0.000122**	<0.0000148	**0.000769**	**0.000190**	<0.0000117	**0.00255**	**0.0000235 J**
MW-10	10/16/19	**DUP**	<0.0000140	**0.0000149 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000369**	<0.0000157	**0.000114**	<0.0000148	**0.000606**	**0.000151**	<0.0000117	**0.00235**	**0.0000199 J**
MW-11	11/30/17		<0.000180	**0.000323**	**0.000333**	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	**0.000199**	<0.000180	**0.00135**	<0.000180	**0.00218**	<0.000180	**0.00103**	**0.00245**	**0.000187**	NA	NA
MW-11	11/15/18		**0.0000142 J**	<0.0000100	<0.0000120	<0.00000410	<0.0000116	**0.00000386 J**	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000319 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000571 J**	**0.0000111 J**	**0.0000206 J**	<0.00000821	<0.00000902
MW-11	10/16/19		<0.0000140	**0.0000316 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000202**	<0.0000157	**0.000147**	<0.0000148	**0.000887**	**0.0000995**	<0.0000117	**0.00176**	**0.000774**
MW-12	11/30/17		<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	<0.000180	**0.000190**	<0.000180	**0.000456**	**0.000338**	<0.000180	NA	NA
MW-12	11/15/18		<0.0000140	**0.0000333 J**	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.000307**	<0.0000157	**0.000239**	<0.0000148	**0.00387**	**0.000123**	<0.0000117	**0.00356**	**0.000992**
MW-13	11/30/17		<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000370	**0.000257**	<0.000185	<0.000111	**0.000630**
MW-13	11/15/18		<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	**0.00000233 J**	<0.00000227	<0.0000136	<0.0000108	<0.00000396	**0.00000169 J**	<0.0000157	<0.00000850	<0.0000148	**0.0000813 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902
MW-14	11/30/17		<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	<0.000182	**0.000131 J**	<0.000182	**0.000148 J**	**0.000323**	<0.000182	<0.000109 U K	**0.000734**
MW-14	11/15/18		<0.0000140	<0.0000100	<0.0000120	<0.00000410	<0.0000116	<0.00000212	<0.00000227	<0.0000136	<0.0000108	<0.00000396	<0.00000105	<0.0000157	<0.00000850	<0.0000148	**0.0000956 J**	<0.00000820	<0.0000117	<0.00000821	<0.00000902

Notes:

1. Sample results listed from 2012 and 2014 were collected and reported by Basin Environmental Service Technologies, LLC
2. Polycyclic Aromatic Hydrocarbons (PAH) analysis by Environmental Protection Agency (EPA) Method SW846-8270C-SIM
3. All reported concentrations are reported as milligrams per Liter (mg/L)
4. Bold font indicates laboratory detection
5. Yellow shaded cells indicate results exceeding NMWQCC Human Health Standards
6. Green shaded cells indicate results meeting NMWQCC regulatory requirement of 2 consecutive years of PAH compounds below the Human Health Standards
7. < = Not detected above the Sample Detection Limit
8. NA - No Analysis
9. J - Denotes an estimated concentration detected above the Sample Detection Limit and below the Method Quantitation Limit
10. NMWQCC Human Health Standard for combined naphthalene + 1-methylnaphthalene + 2-methylnaphthalene is 0.03 mg/L per NMAC 20.6.2.3103 A.(1)(jj)

Released to Imaging: 10/8/2025 2:00:48 PM



0 1000 2000 ft

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

N

GHD

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

Project No. **12604539**
Date **March 2024**

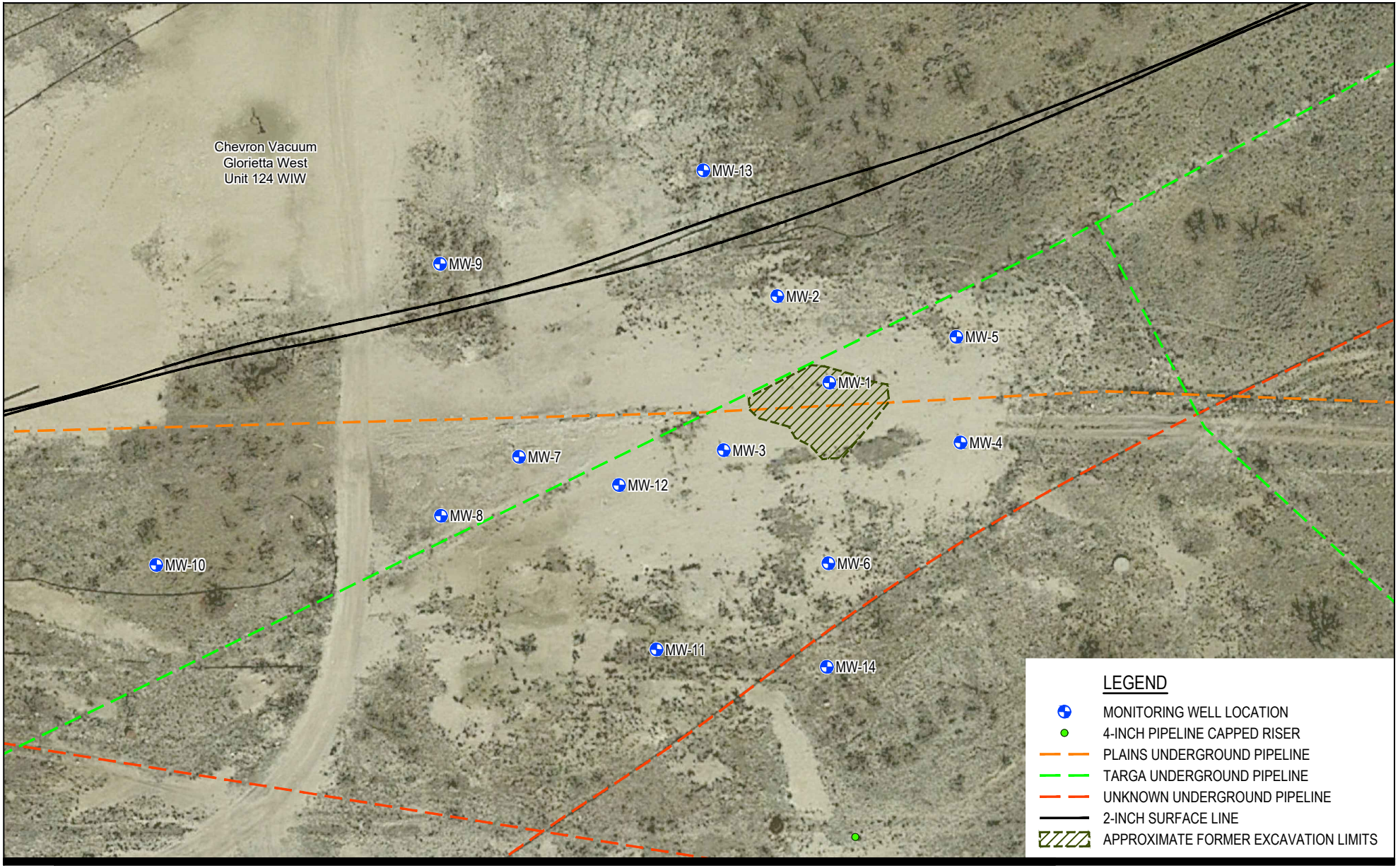
SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D101_DL-2024.dwg

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

Page 33 of 256



N

0 30 60 ft

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

GHD

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

SITE DETAILS MAP

Project No. **12604539**
Date **March 2024**

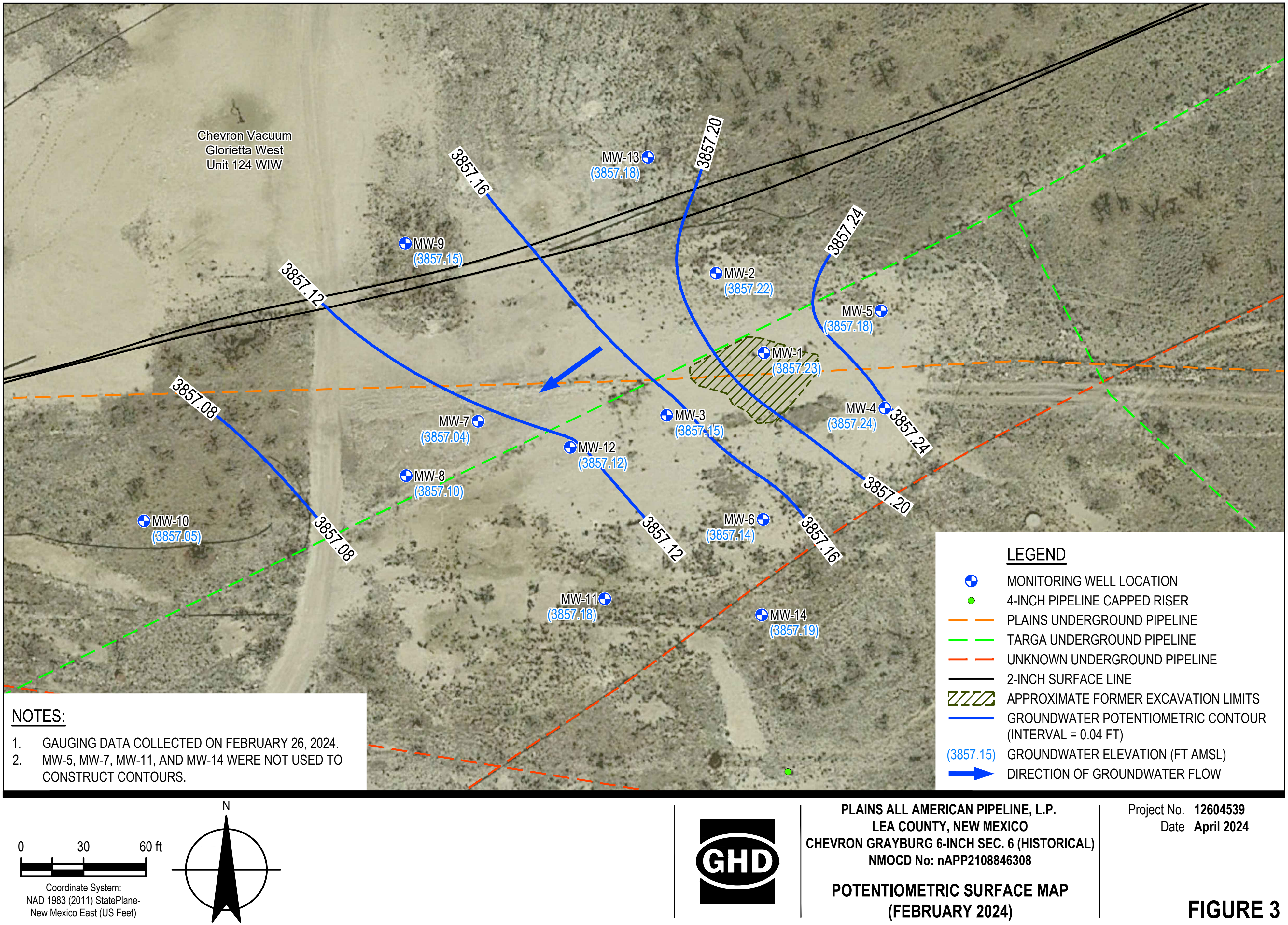
FIGURE 2

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D101_DL-2024.dwg
Plot Date: 29 March 2024 7:46 PM

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West

Received by OCD: 8/25/2025 11:27:53 AM

Released to Imaging: 10/8/2025 2:00:48 PM



NOTES:

1. GAUGING DATA COLLECTED ON FEBRUARY 26, 2024.
2. MW-5, MW-7, MW-11, AND MW-14 WERE NOT USED TO CONSTRUCT CONTOURS.

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

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

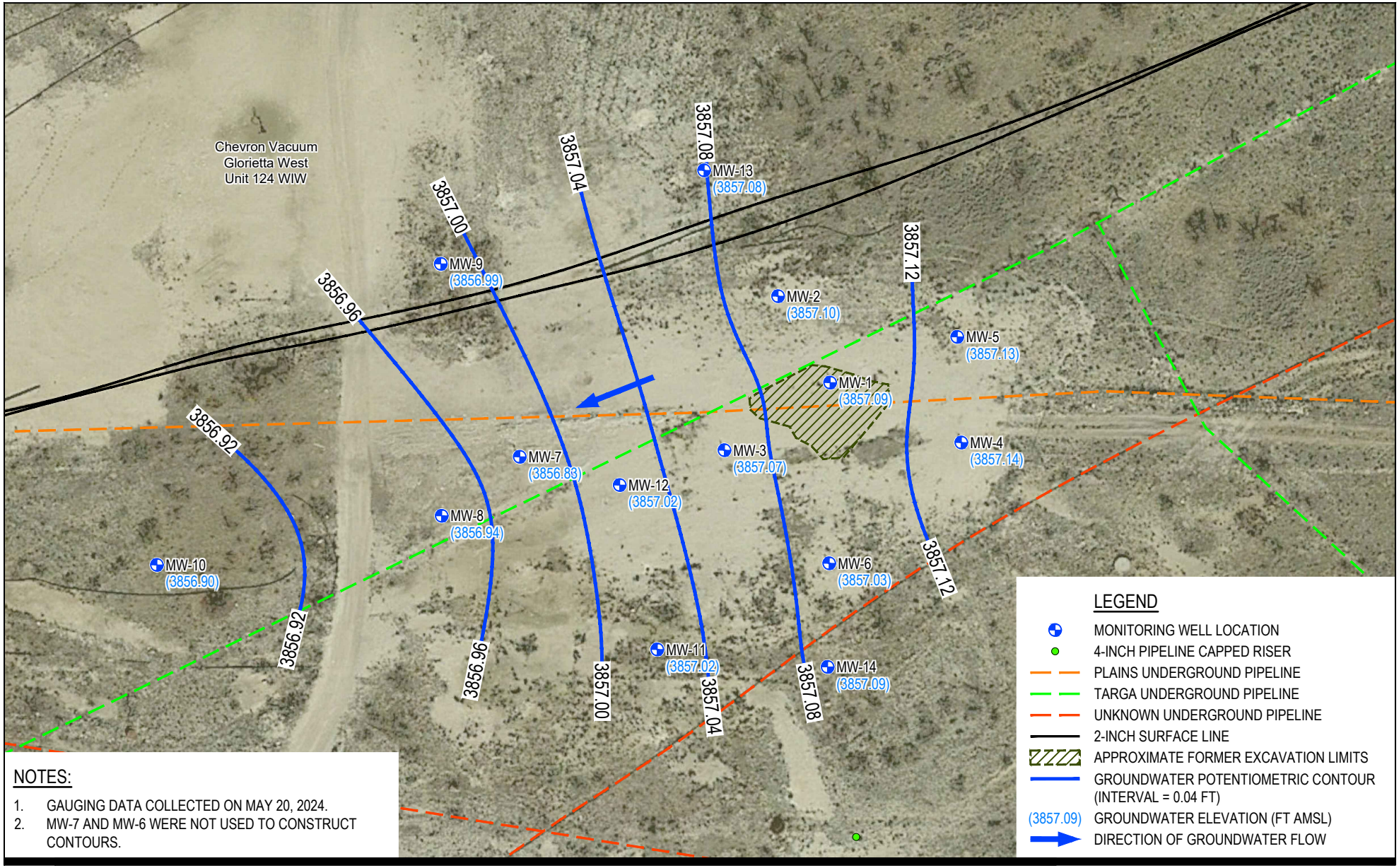
POTENTIOMETRIC SURFACE MAP
(FEBRUARY 2024)

Project No. **12604539**
Date **April 2024**

FIGURE 3

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D101_DL-2024.dwg

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



0 30 60 ft

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

N

GHD

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

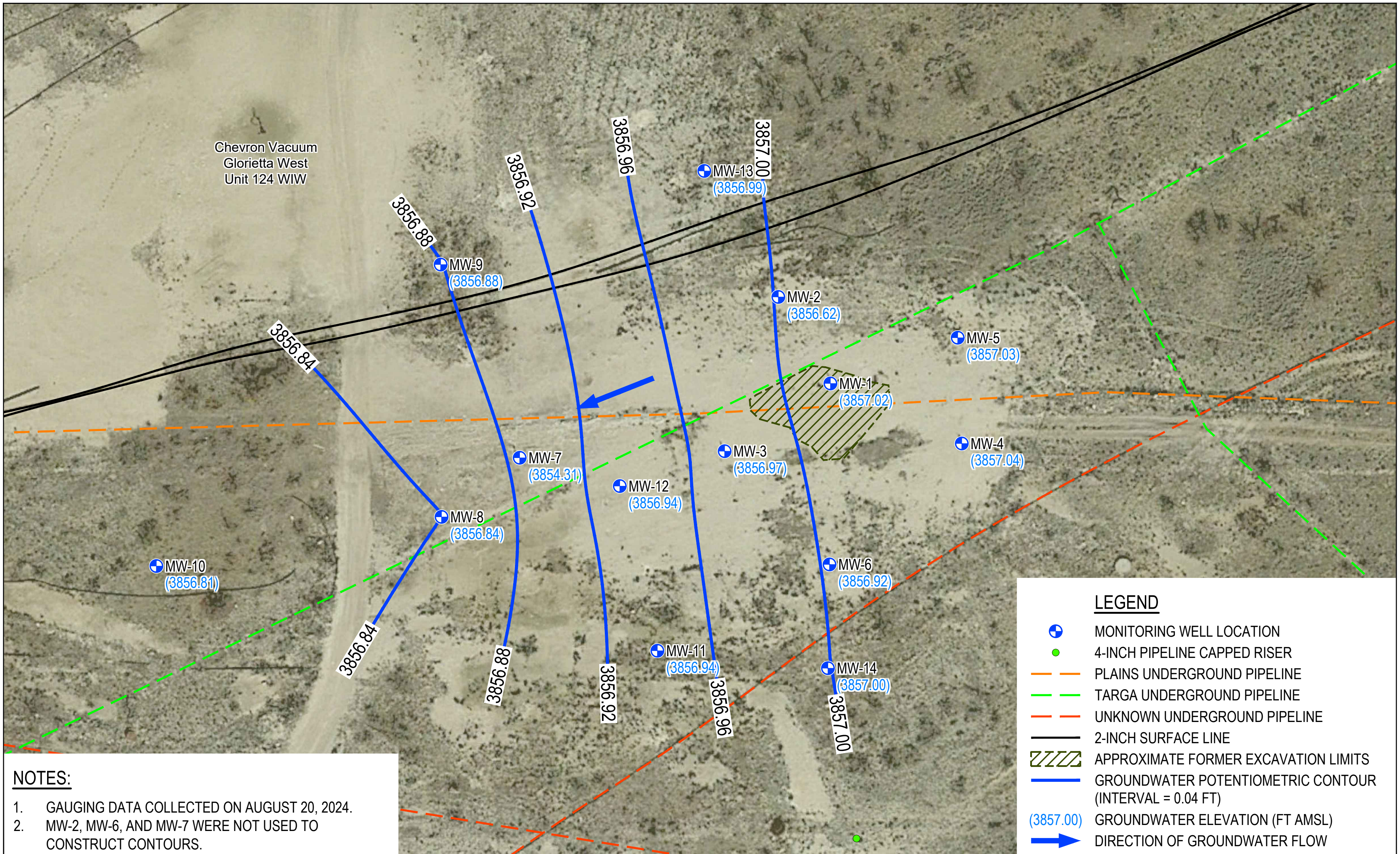
POTENTIOMETRIC SURFACE MAP
(MAY 2024)

Project No. **12604539**
Date **September 2024**

FIGURE 4

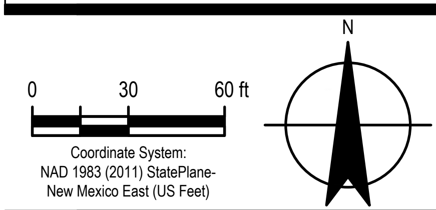
Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D102_DL-2024.dwg
Created by: [illegible]

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



NOTES:

1. GAUGING DATA COLLECTED ON AUGUST 20, 2024.
2. MW-2, MW-6, AND MW-7 WERE NOT USED TO CONSTRUCT CONTOURS.



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

GHD

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

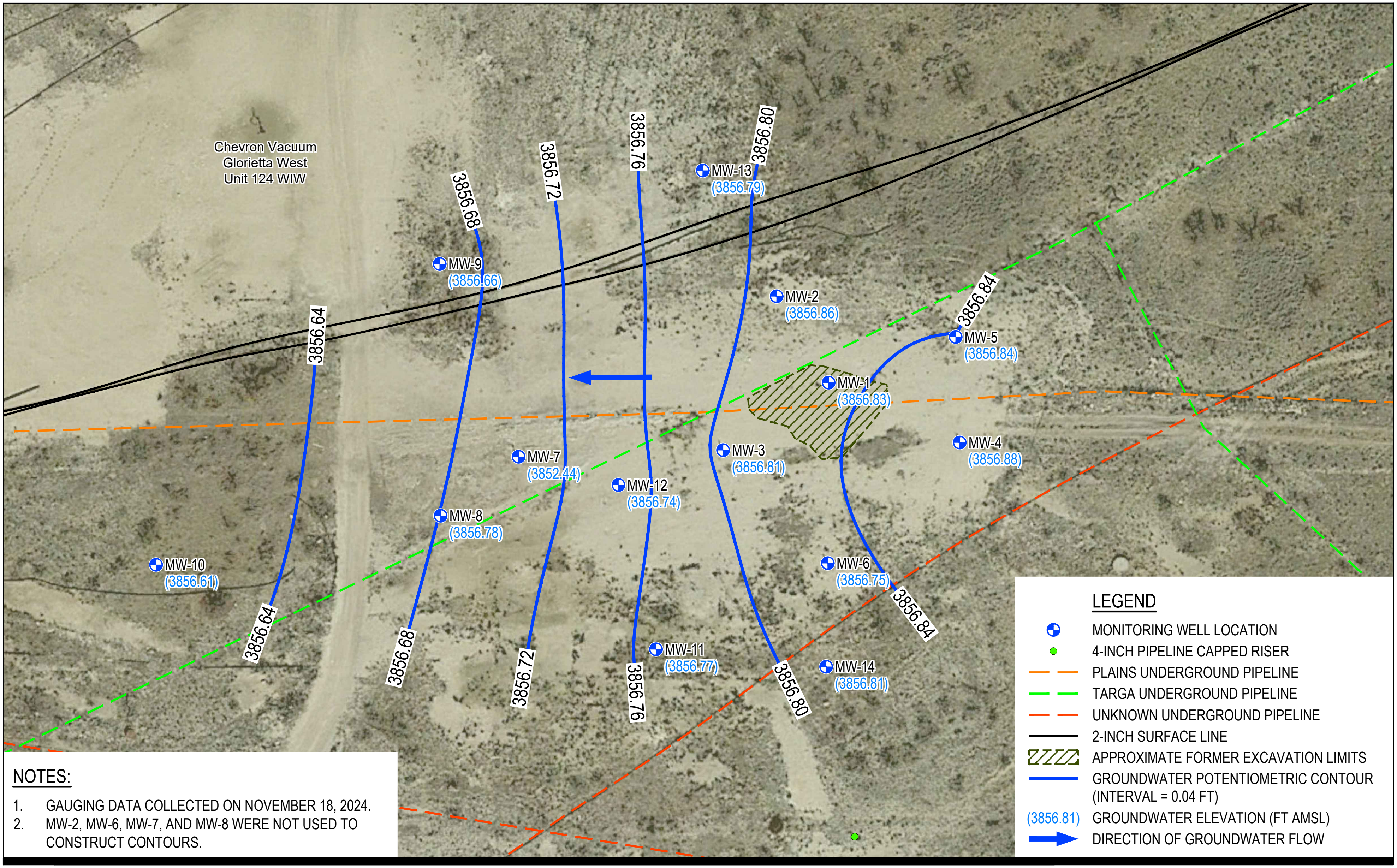
POTENTIOMETRIC SURFACE MAP (AUGUST 2024)

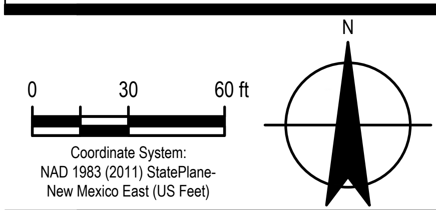
Project No. 12604539
Date December 2024

FIGURE 5

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D103_DL-2024.dwg

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West





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

GHD

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

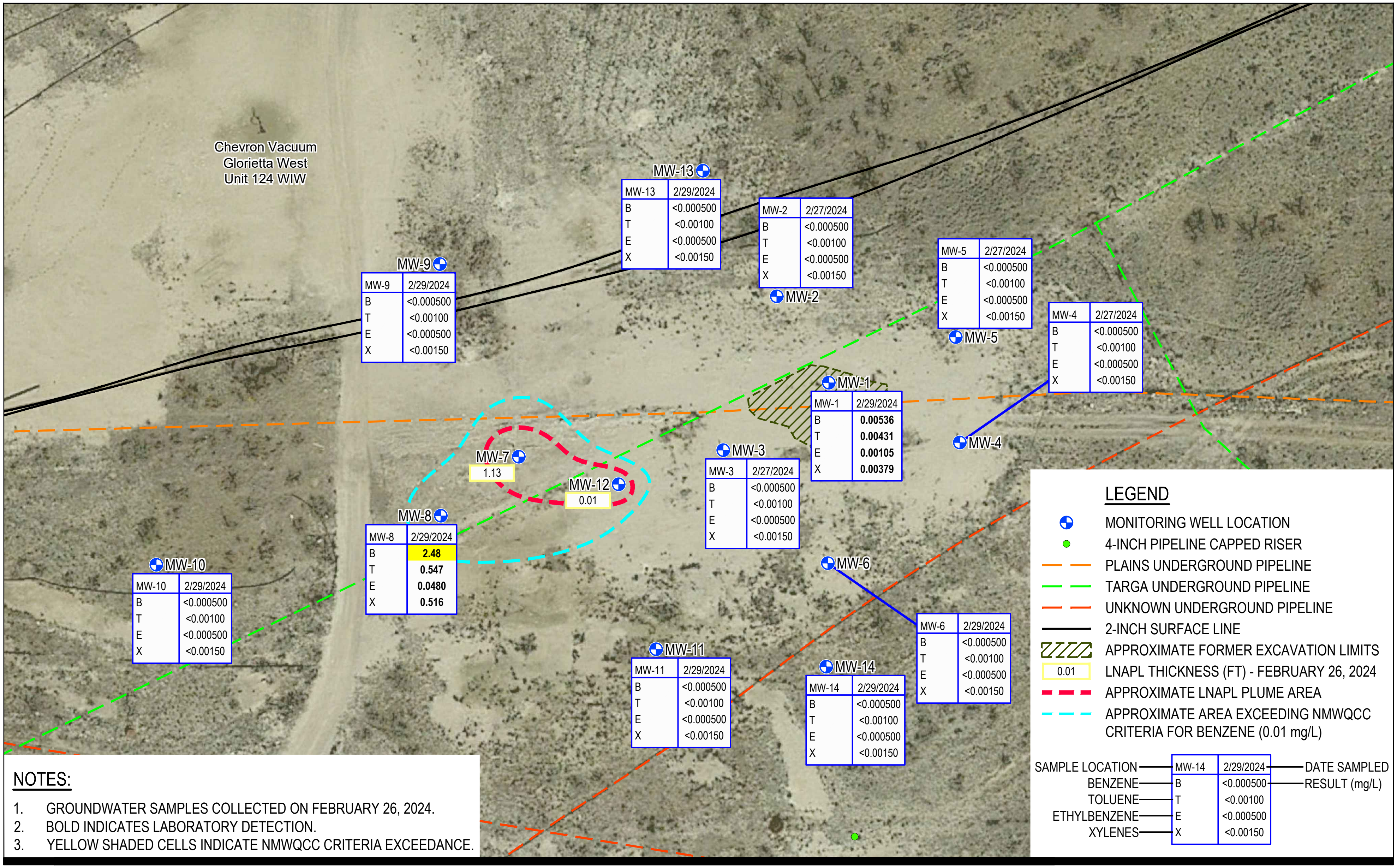
POTENTIOMETRIC SURFACE MAP
(NOVEMBER 2024)

Project No. **12604539**
Date **December 2024**

FIGURE 6

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D104_DL-2024.dwg

Data Source: Source: Image © 2016 Google - Imagery Date: February 1, 2017
Lat/Long: 32.78091° North, 103.492240° West



0 30 60 ft

N

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

GHD

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

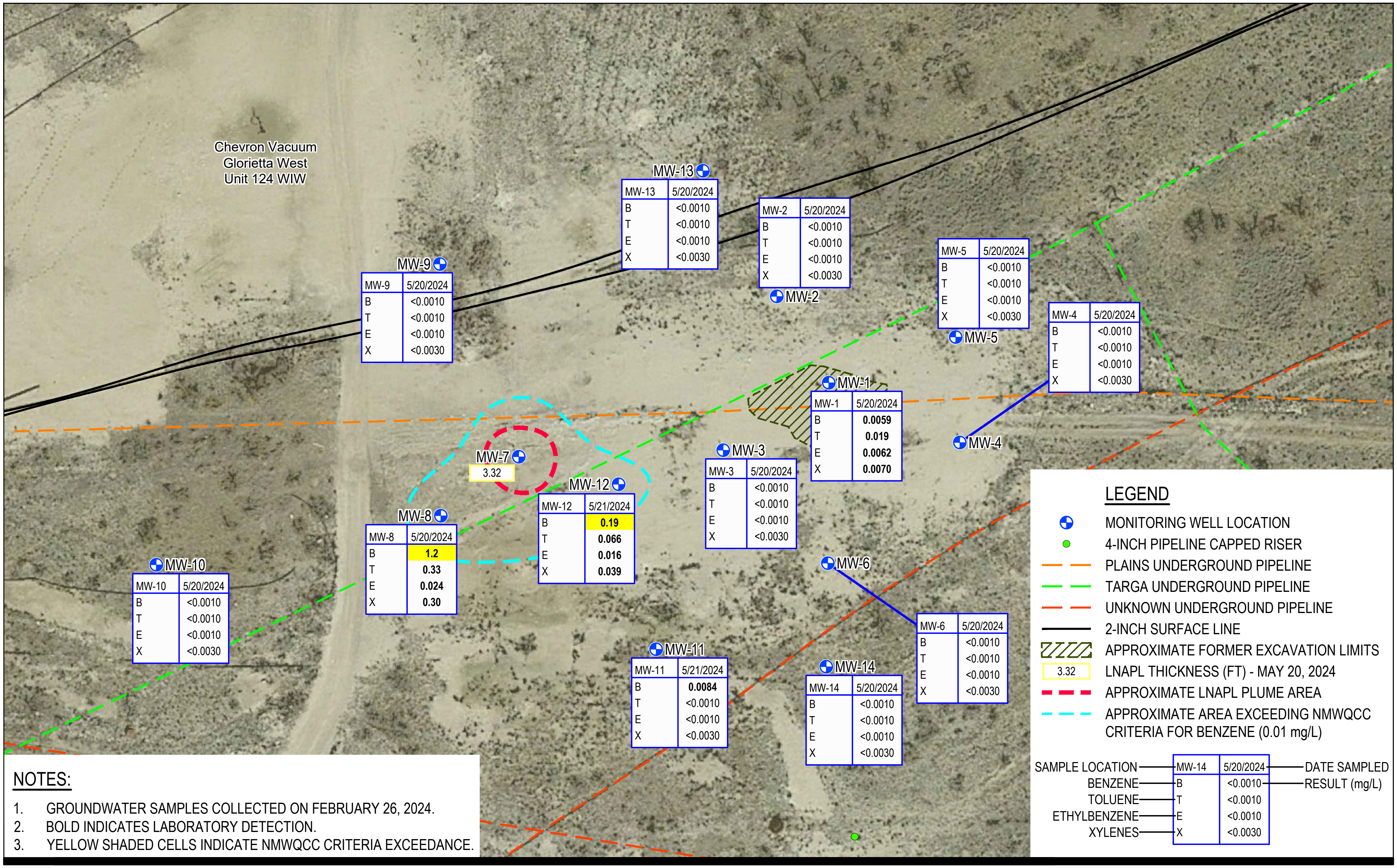
COC CONCENTRATIONS IN GROUNDWATER (FEBRUARY 2024)

Project No. **12604539**
Date **September 2024**

FIGURE 7

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D101_DL-2024.dwg

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



0 30 60 ft

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

N

GHD

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

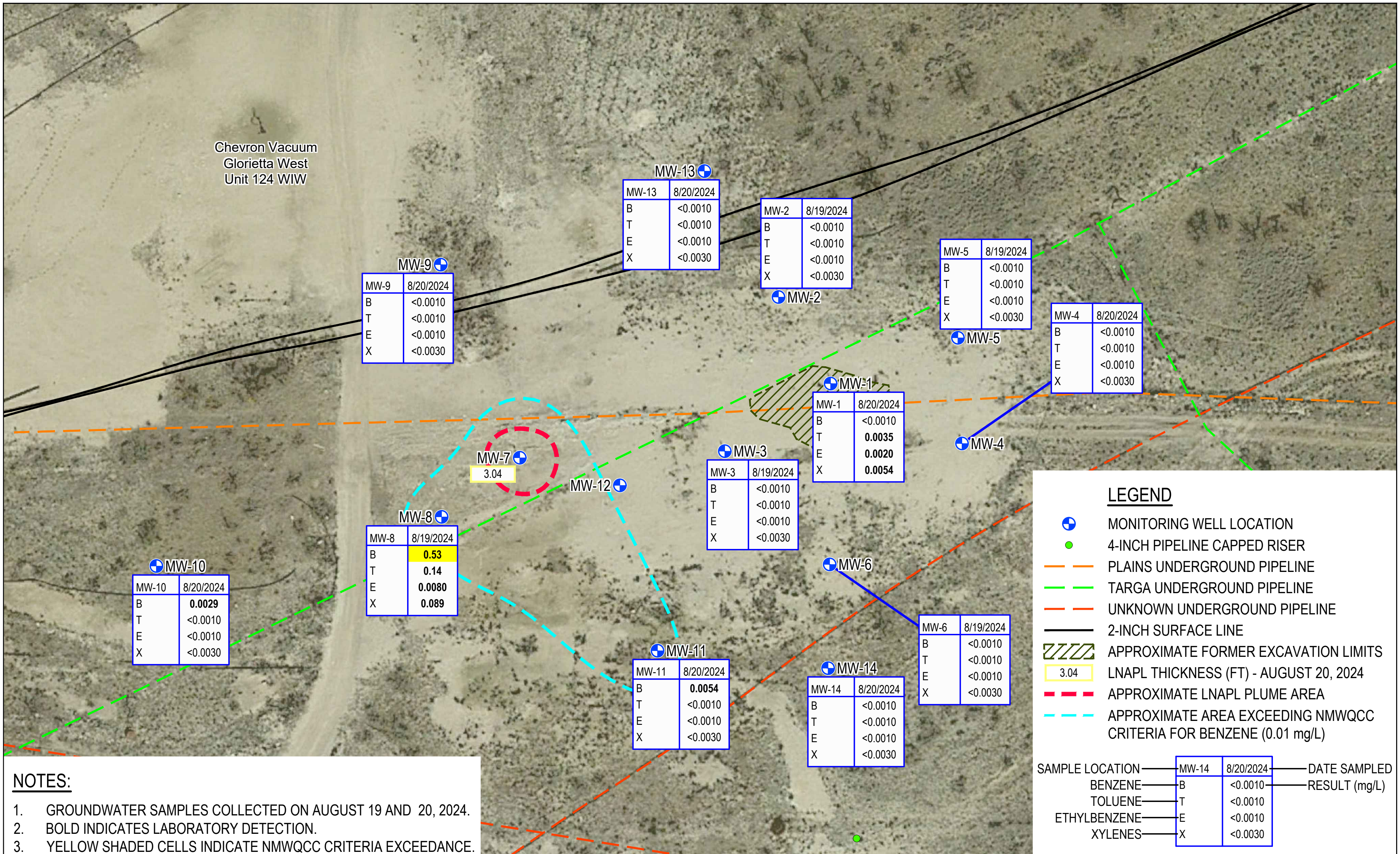
COC CONCENTRATIONS IN GROUNDWATER (MAY 2024)

Project No. **12604539**
Date **September 2024**

FIGURE 8

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D102_DL-2024.dwg

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



NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON AUGUST 19 AND 20, 2024.
2. BOLD INDICATES LABORATORY DETECTION.
3. YELLOW SHADED CELLS INDICATE NMWQCC CRITERIA EXCEEDANCE.

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

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

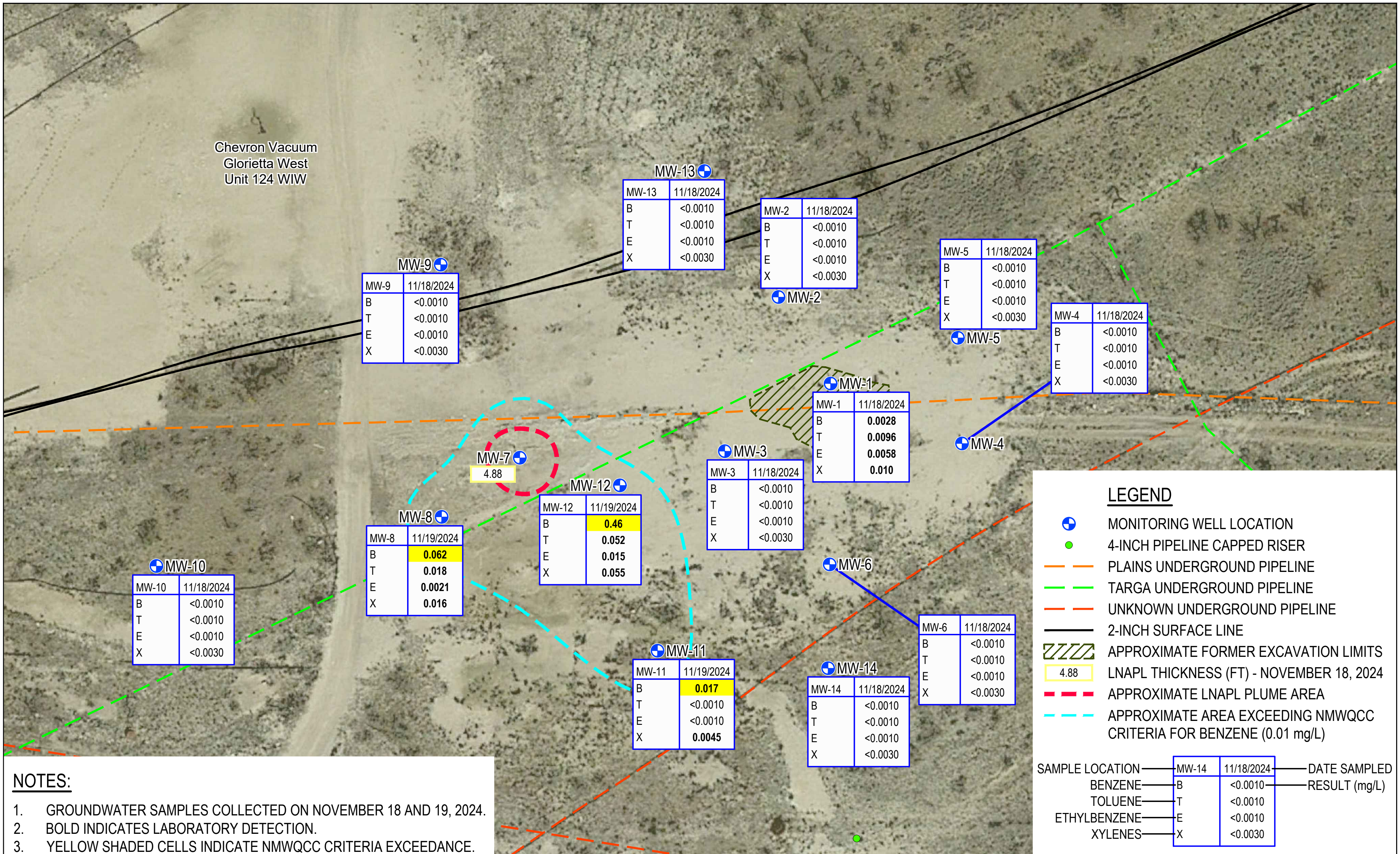
COC CONCENTRATIONS IN GROUNDWATER (AUGUST 2024)

Project No. **12604539**
Date **December 2024**

FIGURE 9

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D103_DL-2024.dwg

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



NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON NOVEMBER 18 AND 19, 2024.
2. BOLD INDICATES LABORATORY DETECTION.
3. YELLOW SHADED CELLS INDICATE NMWQCC CRITERIA EXCEEDANCE.

0 30 60 ft

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

N

GHD

PLAINS ALL AMERICAN PIPELINE, L.P.
LEA COUNTY, NEW MEXICO
CHEVRON GRAYBURG 6-INCH SEC. 6 (HISTORICAL)
NMOCD No: nAPP2108846308

COC CONCENTRATIONS IN GROUNDWATER (NOVEMBER 2024)

Project No. **12604539**
Date **December 2024**

FIGURE 10

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12604539\Digital_Design\ACAD\Figures\GWR2024\12604539-GHD-00-00-RPT-EN-D104_DL-2024.dwg

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

Appendices

Appendix A

Release Notification and Corrective Action, Form C-141

Page 44 of 256

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 appropriat
District Office in accordanc
with Rule 116 on bac
side of for

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Rep

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	Mineral Owner	Lease No.
NMSLO		

LOCATION OF RELEASE

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

RECEIVED
OCT 15
HOBBS

If a Watercourse was Impacted, Describe Fully.*

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: Jason Henry

Printed Name: Jason Henry

Title: Remediation Coordinator

E-mail Address: jhenry@paalp.com

Date: 10-15-2010 Phone: (575) 441-1099

OIL CONSERVATION DIVISION

Approved by District Supervisor: ENVIRONMENTAL ENGINEER

Approval Date: 10.15.10 Expiration Date: 12.15.10

Conditions of Approval: SUBMIT FINAL C-141 W/DOCS BY

Attached ☐

IRP# 10.10.2637

* Attach Additional Sheets If Necessary

Received by OCD: 8/25/2025 11:27:53 AM

Released to Imaging: 10/8/2025 2:00:48 PM

Appendix B

Certified Laboratory Analytical Reports

Pace Analytical®

ANALYTICAL REPORT

March 13, 2024

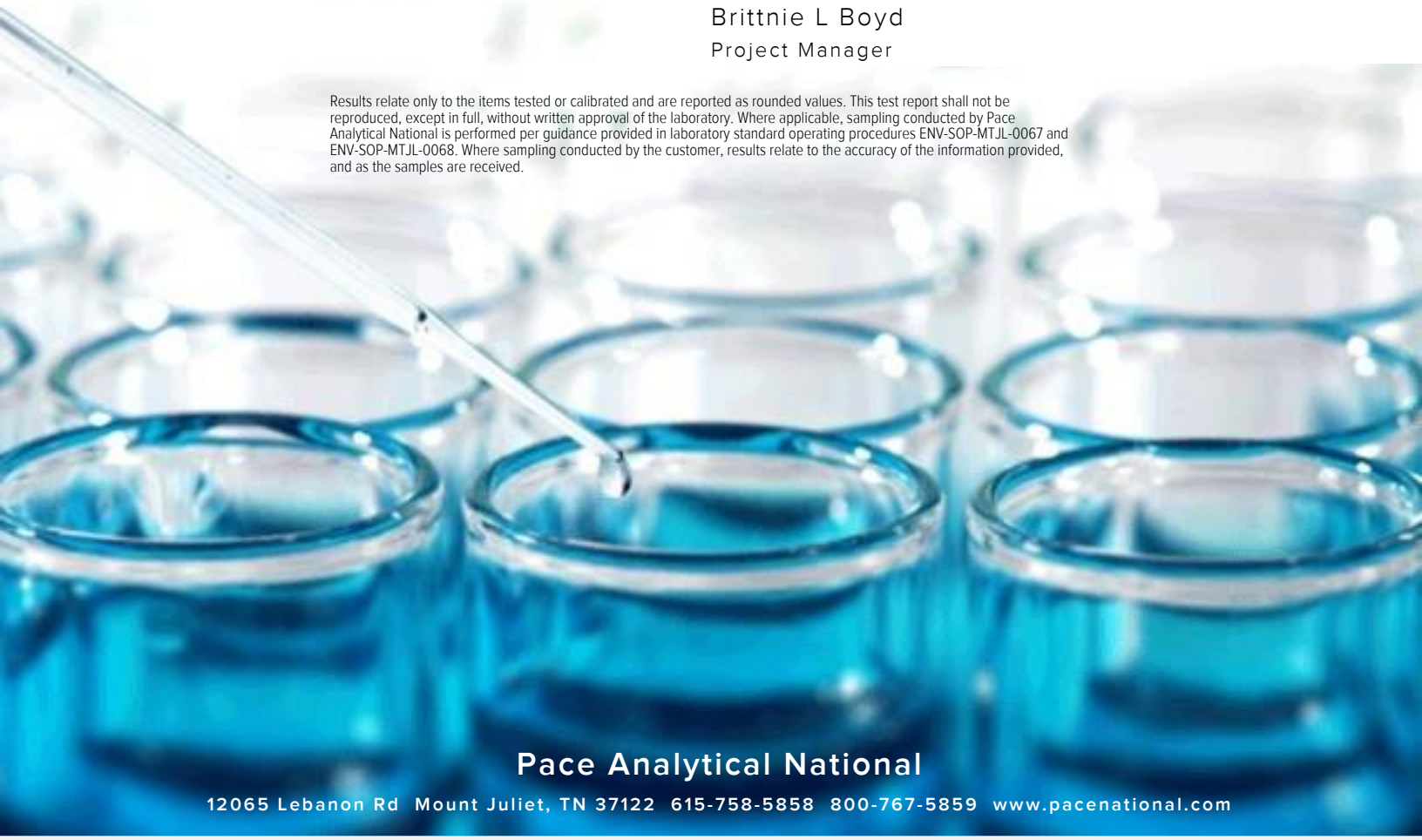
Plains All American, LP - GHD

Sample Delivery Group:	L1711923
Samples Received:	03/05/2024
Project Number:	
Description:	Chevron Grayburg 6-Inch Sec. 6 (Historical)
Site:	SRS CHEVRON GRAYBURG 6-INCH HI
Report To:	Adrianna Copeland 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Brittnie L Boyd
Project Manager

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



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

TABLE OF CONTENTS

GB-MW-2-02272024 L1711923-01 GW

Collected by: Hector Orosco | Collected date/time: 02/27/24 09:40 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 14:24	03/07/24 14:24	JAH	Mt. Juliet, TN

GB-MW-3-02272024 L1711923-02 GW

Collected by: Hector Orosco | Collected date/time: 02/27/24 09:50 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 14:47	03/07/24 14:47	JAH	Mt. Juliet, TN

GB-MW-4-02272024 L1711923-03 GW

Collected by: Hector Orosco | Collected date/time: 02/27/24 10:00 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 15:09	03/07/24 15:09	JAH	Mt. Juliet, TN

GB-MW-5-02272024 L1711923-04 GW

Collected by: Hector Orosco | Collected date/time: 02/27/24 10:10 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 15:32	03/07/24 15:32	JAH	Mt. Juliet, TN

GB-MW-13-02292024 L1711923-05 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 12:20 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 15:55	03/07/24 15:55	JAH	Mt. Juliet, TN

GB-MW-14-02292024 L1711923-06 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 13:30 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 16:18	03/07/24 16:18	JAH	Mt. Juliet, TN

GB-MW-1-02292024 L1711923-07 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 12:10 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 16:41	03/07/24 16:41	JAH	Mt. Juliet, TN

GB-MW-6-02292024 L1711923-08 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 12:45 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 17:04	03/07/24 17:04	JAH	Mt. Juliet, TN

GB-MW-8-02292024 L1711923-09 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 13:30 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	20	03/07/24 19:20	03/07/24 19:20	JAH	Mt. Juliet, TN

GB-MW-9-02292024 L1711923-10 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 12:50 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 17:27	03/07/24 17:27	JAH	Mt. Juliet, TN

GB-MW-10-02292024 L1711923-11 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 12:00 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 17:49	03/07/24 17:49	JAH	Mt. Juliet, TN

GB-MW-11-02292024 L1711923-12 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 14:00 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 18:12	03/07/24 18:12	JAH	Mt. Juliet, TN

GB-DUP1-02292024 L1711923-13 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 00:00 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2241590	1	03/07/24 18:34	03/07/24 18:34	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2244349	20	03/12/24 14:47	03/12/24 14:47	DWR	Mt. Juliet, TN

GB-DUP2-02292024 L1711923-14 GW

Collected by: Hector Orosco | Collected date/time: 02/29/24 00:00 | Received date/time: 03/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2244349	1	03/12/24 15:10	03/12/24 15:10	DWR	Mt. Juliet, TN

CASE NARRATIVE

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

Brittnie L Boyd
Project Manager

Received by OCD: 8/25/2025 11:27:53 AM

GB-MW-2-02272024
Collected date/time: 02/27/24 09:40
L1711923

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 14:24	WG2241590
Toluene	ND		0.00100	1	03/07/2024 14:24	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 14:24	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 14:24	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*92.1*		*79.0-125*		*03/07/2024 14:24*	WG2241590

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

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 14:47	WG2241590
Toluene	ND		0.00100	1	03/07/2024 14:47	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 14:47	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 14:47	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*90.8*		*79.0-125*		*03/07/2024 14:47*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

GB-MW-4-02272024
Collected date/time: 02/27/24 10:00
L1711923

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 15:09	WG2241590
Toluene	ND		0.00100	1	03/07/2024 15:09	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 15:09	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 15:09	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*92.3*		*79.0-125*		*03/07/2024 15:09*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 15:32	WG2241590
Toluene	ND		0.00100	1	03/07/2024 15:32	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 15:32	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 15:32	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*92.1*		*79.0-125*		*03/07/2024 15:32*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

GB-MW-13-02292024
Collected date/time: 02/29/24 12:20
L1711923

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 15:55	WG2241590
Toluene	ND		0.00100	1	03/07/2024 15:55	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 15:55	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 15:55	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*92.0*		*79.0-125*		*03/07/2024 15:55*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 16:18	WG2241590
Toluene	ND		0.00100	1	03/07/2024 16:18	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 16:18	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 16:18	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*91.8*		*79.0-125*		*03/07/2024 16:18*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

GB-MW-1-02292024
Collected date/time: 02/29/24 12:10
L1711923

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00536		0.000500	1	03/07/2024 16:41	WG2241590
Toluene	0.00431		0.00100	1	03/07/2024 16:41	WG2241590
Ethylbenzene	0.00105		0.000500	1	03/07/2024 16:41	WG2241590
Total Xylene	0.00379		0.00150	1	03/07/2024 16:41	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*90.4*		*79.0-125*		*03/07/2024 16:41*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

GB-MW-6-02292024
Collected date/time: 02/29/24 12:45
L1711923

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 17:04	WG2241590
Toluene	ND		0.00100	1	03/07/2024 17:04	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 17:04	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 17:04	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*91.8*		*79.0-125*		*03/07/2024 17:04*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	2.48		0.0100	20	03/07/2024 19:20	WG2241590
Toluene	0.547		0.0200	20	03/07/2024 19:20	WG2241590
Ethylbenzene	0.0480		0.0100	20	03/07/2024 19:20	WG2241590
Total Xylene	0.516		0.0300	20	03/07/2024 19:20	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*91.0*		*79.0-125*		*03/07/2024 19:20*	WG2241590

Received by OCD: 8/25/2025 11:27:53 AM

GB-MW-9-02292024
Collected date/time: 02/29/24 12:50
L1711923

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 17:27	WG2241590
Toluene	ND		0.00100	1	03/07/2024 17:27	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 17:27	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 17:27	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*90.8*		*79.0-125*		*03/07/2024 17:27*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

GB-MW-10-02292024
Collected date/time: 02/29/24 12:00
L1711923

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 17:49	WG2241590
Toluene	ND		0.00100	1	03/07/2024 17:49	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 17:49	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 17:49	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*92.1*		*79.0-125*		*03/07/2024 17:49*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

GB-MW-11-02292024
Collected date/time: 02/29/24 14:00
L1711923

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/07/2024 18:12	WG2241590
Toluene	ND		0.00100	1	03/07/2024 18:12	WG2241590
Ethylbenzene	ND		0.000500	1	03/07/2024 18:12	WG2241590
Total Xylene	ND		0.00150	1	03/07/2024 18:12	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*91.7*		*79.0-125*		*03/07/2024 18:12*	WG2241590

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	3.03		0.0100	20	03/12/2024 14:47	WG2244349
Toluene	0.657		0.0200	20	03/12/2024 14:47	WG2244349
Ethylbenzene	0.0594		0.000500	1	03/07/2024 18:34	WG2241590
Total Xylene	0.444		0.00150	1	03/07/2024 18:34	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*90.4*		*79.0-125*		*03/07/2024 18:34*	WG2241590
(S) a,a,a-Trifluorotoluene(PID)	*92.5*		*79.0-125*		*03/12/2024 14:47*	WG2244349

Released to Imaging: 10/8/2025 2:00:48 PM

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.000500	1	03/12/2024 15:10	WG2244349
Toluene	ND		0.00100	1	03/12/2024 15:10	WG2244349
Ethylbenzene	ND		0.000500	1	03/12/2024 15:10	WG2244349
Total Xylene	ND		0.00150	1	03/12/2024 15:10	WG2244349
(S) a,a,a-Trifluorotoluene(PID)	*92.9*		*79.0-125*		*03/12/2024 15:10*	WG2244349

Method Blank (MB)

(MB) R4044087-2 03/07/24 12:31

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)	*93.3*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R4044087-1 03/07/24 10:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0492	98.4	77.0-122	
Toluene	0.0500	0.0450	90.0	80.0-121	
Ethylbenzene	0.0500	0.0506	101	80.0-123	
Total Xylene	0.150	0.142	94.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*88.6*	*79.0-125*	

Method Blank (MB)

(MB) R4044617-4 03/12/24 13:41

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)	*94.0*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R4044617-3 03/12/24 11:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0496	99.2	77.0-122	
Toluene	0.0500	0.0481	96.2	80.0-121	
Ethylbenzene	0.0500	0.0532	106	80.0-123	
Total Xylene	0.150	0.149	99.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*99.2*	*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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	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	LAO000356
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.

Received by OCD: 8/25/2025 11:27:53 AM

Company Name:
Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Accounts Payable
1106 Griffith Dr.
Midland, TX 79706

Pres Chk

Report to:
Adrianna Copeland

Email To:
adrianna.copeland@ghd.com;Christopher.Knigh

Project Description:
Chevron Grayburg 6-Inch Sec. 6 (Historical)

City/State Collected: Lea County NM

Please Circle: PT MT CT ET

Phone: **281-615-3420**

Client Project #

Lab Project #
PLAINSGHD-CHEVGRAY

Collected by (print):
Hector orosco

Site/Facility ID #
SRS CHEVRON GRAYBURG 6-

P.O. #

Collected by (signature):
Hector

Immediately Packed on Ice N ____ Y ✓

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

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

BTEX 40ml Amb-HCl

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40ml Amb-HCl	Remarks	Sample # (lab only)
GB-MW-2-02272024		GW		2-27-24	0940	3	✓		-01
GB-MW-3-02272024		GW		2-27-24	0950	3	✓		-02
GB-MW-4-02272024		GW		2-27-24	1000	3	✓		-03
GB-MW-5-02272024		GW		2-27-24	1010	3	✓		-04
GB-MW-13-02292024		GW		2-29-24	1220	3	✓		-05
GB-MW-14-02292024		GW		2-29-24	1330	3	✓		-06
GB-MW-1-02292024				2-29-24	1210	3	✓		-07
GB-MW-6-02292024				2-29-24	1245	3	✓		-08
GB-MW-8-02292024				2-29-24	1330	3	✓		-09
GB-MW-9-02292024				2-29-24	1250	3	✓		-10

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # 171923
C183

Acctnum: **PLAINSGHD**
Template: **T224574**
Prelogin: **P1050445**
PM: **829 - Brittnie L Boyd**
PB:

Shipped Via: **FedEX Priority**

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7210 2109 5255

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Hector	3-1-24	1115	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: MULTI °C Bottles Received: 42
0.4+0=0.4

Date: 3/5/24 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

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

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Accounts Payable
1106 Griffith Dr.
Midland, TX 79706

Pres Chk

Analysis / Container / Preservative

Chain of Custody

Page 2 of 2

Report to: **Adrianna Copeland**

Email To: **adrianna.copeland@ghd.com;Christopher.Knigh**

Project Description: **Chevron Grayburg 6-Inch Sec. 6 (Historical)**

City/State Collected: Lea County NM

Please Circle: PT (MT) CT ET

Phone: **281-615-3420**

Client Project #

Lab Project # **PLAINSGHD-CHEVGRAY**

Collected by (print): Hector Orosco

Site/Facility ID # **SRS CHEVRON GRAYBURG 6-**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40ml Amb-HCl	Remarks	Sample # (lab only)
GB-MW-10-02292024		GW		2-29-24	1200	3	✓		-11
GB-MW-11-02292024		GW		2-29-24	1400	3	✓		-12
		GW							
GB-DUP1-02292024		GW				3	✓		-13
GB-DUP2-02292024		GW				3	✓		-14
		GW							
Trip Blank		GW				1			-15
		GW							
		GW							
		GW							

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

SDG # 1711923

Table # C183

Acctnum: **PLAINSGHD**

Template: **T224574**

Prelogin: **P1050445**

PM: **829 - Brittnie L Boyd**

PB:

Shipped Via: **FedEX Priority**

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7210 2108 5255

Sample Receipt Checklist

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Hector Orosco	3-1-24	1115			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: MSA °C 0.4+0=0.4	Bottles Received: 42
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/5/24	Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 10/8/2025 2:00:48 PM

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 03, 2024

Chris Knight
GHD
11451 Katy Fwy
Suite 400
Houston, TX 77079

Work Order: **HS24051563**

Laboratory Results for: **12604539- Chevron Grayburg 6-Inch**

Dear Chris Knight,

ALS Environmental received 16 sample(s) on May 22, 2024 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: LUIS.AGUILAR
Luis.Aguilar

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Work Order: HS24051563

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24051563-01	Chevron-MW-2-05202024	Groundwater		20-May-2024 10:33	22-May-2024 10:15	☐
HS24051563-02	Chevron-MW-3-05202024	Groundwater		20-May-2024 11:06	22-May-2024 10:15	☐
HS24051563-03	Chevron-MW-4-05202024	Groundwater		20-May-2024 12:41	22-May-2024 10:15	☐
HS24051563-04	Chevron-MW-5-05202024	Groundwater		20-May-2024 13:28	22-May-2024 10:15	☐
HS24051563-05	Chevron-MW-13-05202024	Groundwater		20-May-2024 14:23	22-May-2024 10:15	☐
HS24051563-06	Chevron-MW-14-05202024	Groundwater		20-May-2024 15:01	22-May-2024 10:15	☐
HS24051563-07	Chevron-MW-1-05202024	Groundwater		20-May-2024 15:32	22-May-2024 10:15	☐
HS24051563-08	Chevron-MW-6-05202024	Groundwater		20-May-2024 10:50	22-May-2024 10:15	☐
HS24051563-09	Chevron-MW-8-05202024	Groundwater		20-May-2024 12:00	22-May-2024 10:15	☐
HS24051563-10	Chevron-MW-9-05202024	Groundwater		20-May-2024 15:10	22-May-2024 10:15	☐
HS24051563-11	Chevron-MW-10-05202024	Groundwater		20-May-2024 16:10	22-May-2024 10:15	☐
HS24051563-12	Chevron-MW-11-05212024	Groundwater		21-May-2024 09:55	22-May-2024 10:15	☐
HS24051563-13	Chevron-MW-12-05212024	Groundwater		21-May-2024 11:30	22-May-2024 10:15	☐
HS24051563-14	Chevron-DUP1-05202024	Groundwater		20-May-2024 00:00	22-May-2024 10:15	☐
HS24051563-15	Chevron-DUP2-05202024	Groundwater		21-May-2024 00:00	22-May-2024 10:15	☐
HS24051563-16	Trip Blank	Water	CG-040124-626	21-May-2024 00:00	22-May-2024 10:15	☑

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD **CASE NARRATIVE**
Project: 12604539- Chevron Grayburg 6-Inch
Work Order: HS24051563

Work Order Comments

- Login notes:
  Trip blank collected is not in the chain and sample Chevron-DUP2-05202024 has a collect date of 05/21/2024. Where Chevron-DUP1-05202024 has collect date of 05/20/2024.

GCMS Volatiles by Method SW8260

Batch ID: R467863,R468283

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

Batch ID: R467814

Sample ID: Chevron-MW-1-05202024 (HS24051563-07MS)

- MS/MSD failed QC limit due to suspect matrix effect

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-2-05202024
Collection Date: 20-May-2024 10:33

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	28-May-2024 16:29
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-May-2024 16:29
Toluene	< 0.0010		0.0010	mg/L	1	28-May-2024 16:29
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-May-2024 16:29
Surr: 1,2-Dichloroethane-d4	*88.2*		*70-126*	*%REC*	*1*	*28-May-2024 16:29*
Surr: 4-Bromofluorobenzene	*92.5*		*77-113*	*%REC*	*1*	*28-May-2024 16:29*
Surr: Dibromofluoromethane	*92.3*		*77-123*	*%REC*	*1*	*28-May-2024 16:29*
Surr: Toluene-d8	*94.6*		*82-127*	*%REC*	*1*	*28-May-2024 16:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-3-05202024
Collection Date: 20-May-2024 11:06

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	28-May-2024 16:51
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-May-2024 16:51
Toluene	< 0.0010		0.0010	mg/L	1	28-May-2024 16:51
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-May-2024 16:51
Surr: 1,2-Dichloroethane-d4	*90.0*		*70-126*	*%REC*	*1*	*28-May-2024 16:51*
Surr: 4-Bromofluorobenzene	*94.3*		*77-113*	*%REC*	*1*	*28-May-2024 16:51*
Surr: Dibromofluoromethane	*93.9*		*77-123*	*%REC*	*1*	*28-May-2024 16:51*
Surr: Toluene-d8	*98.8*		*82-127*	*%REC*	*1*	*28-May-2024 16:51*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-4-05202024
Collection Date: 20-May-2024 12:41

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	28-May-2024 17:13
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-May-2024 17:13
Toluene	< 0.0010		0.0010	mg/L	1	28-May-2024 17:13
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-May-2024 17:13
Surr: 1,2-Dichloroethane-d4	*90.5*		*70-126*	*%REC*	*1*	*28-May-2024 17:13*
Surr: 4-Bromofluorobenzene	*93.5*		*77-113*	*%REC*	*1*	*28-May-2024 17:13*
Surr: Dibromofluoromethane	*93.2*		*77-123*	*%REC*	*1*	*28-May-2024 17:13*
Surr: Toluene-d8	*95.0*		*82-127*	*%REC*	*1*	*28-May-2024 17:13*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-5-05202024
Collection Date: 20-May-2024 13:28

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	28-May-2024 17:35
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-May-2024 17:35
Toluene	< 0.0010		0.0010	mg/L	1	28-May-2024 17:35
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-May-2024 17:35
Surr: 1,2-Dichloroethane-d4	*92.2*		*70-126*	*%REC*	*1*	*28-May-2024 17:35*
Surr: 4-Bromofluorobenzene	*92.2*		*77-113*	*%REC*	*1*	*28-May-2024 17:35*
Surr: Dibromofluoromethane	*93.6*		*77-123*	*%REC*	*1*	*28-May-2024 17:35*
Surr: Toluene-d8	*96.5*		*82-127*	*%REC*	*1*	*28-May-2024 17:35*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-13-05202024
Collection Date: 20-May-2024 14:23

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	28-May-2024 17:57
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-May-2024 17:57
Toluene	< 0.0010		0.0010	mg/L	1	28-May-2024 17:57
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-May-2024 17:57
Surr: 1,2-Dichloroethane-d4	*89.9*		*70-126*	*%REC*	*1*	*28-May-2024 17:57*
Surr: 4-Bromofluorobenzene	*93.5*		*77-113*	*%REC*	*1*	*28-May-2024 17:57*
Surr: Dibromofluoromethane	*93.3*		*77-123*	*%REC*	*1*	*28-May-2024 17:57*
Surr: Toluene-d8	*96.7*		*82-127*	*%REC*	*1*	*28-May-2024 17:57*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-14-05202024
Collection Date: 20-May-2024 15:01

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	28-May-2024 18:19
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-May-2024 18:19
Toluene	< 0.0010		0.0010	mg/L	1	28-May-2024 18:19
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-May-2024 18:19
Surr: 1,2-Dichloroethane-d4	*91.3*		*70-126*	*%REC*	*1*	*28-May-2024 18:19*
Surr: 4-Bromofluorobenzene	*92.7*		*77-113*	*%REC*	*1*	*28-May-2024 18:19*
Surr: Dibromofluoromethane	*93.4*		*77-123*	*%REC*	*1*	*28-May-2024 18:19*
Surr: Toluene-d8	*96.4*		*82-127*	*%REC*	*1*	*28-May-2024 18:19*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-1-05202024
Collection Date: 20-May-2024 15:32

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0059**		**0.0010**	**mg/L**	1	28-May-2024 18:41
Ethylbenzene	**0.0062**		**0.0010**	**mg/L**	1	28-May-2024 18:41
Toluene	**0.019**		**0.0010**	**mg/L**	1	28-May-2024 18:41
Xylenes, Total	**0.0070**		**0.0030**	**mg/L**	1	28-May-2024 18:41
Surr: 1,2-Dichloroethane-d4	*89.2*		*70-126*	*%REC*	*1*	*28-May-2024 18:41*
Surr: 4-Bromofluorobenzene	*96.9*		*77-113*	*%REC*	*1*	*28-May-2024 18:41*
Surr: Dibromofluoromethane	*89.9*		*77-123*	*%REC*	*1*	*28-May-2024 18:41*
Surr: Toluene-d8	*97.4*		*82-127*	*%REC*	*1*	*28-May-2024 18:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-6-05202024
Collection Date: 20-May-2024 10:50

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	28-May-2024 22:23
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-May-2024 22:23
Toluene	< 0.0010		0.0010	mg/L	1	28-May-2024 22:23
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-May-2024 22:23
Surr: 1,2-Dichloroethane-d4	*88.2*		*70-126*	*%REC*	*1*	*28-May-2024 22:23*
Surr: 4-Bromofluorobenzene	*91.7*		*77-113*	*%REC*	*1*	*28-May-2024 22:23*
Surr: Dibromofluoromethane	*91.4*		*77-123*	*%REC*	*1*	*28-May-2024 22:23*
Surr: Toluene-d8	*97.1*		*82-127*	*%REC*	*1*	*28-May-2024 22:23*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-8-05202024
Collection Date: 20-May-2024 12:00

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**1.2**		**0.025**	**mg/L**	25	02-Jun-2024 14:17
Ethylbenzene	**0.024**		**0.0010**	**mg/L**	1	28-May-2024 22:45
Toluene	**0.33**		**0.025**	**mg/L**	25	02-Jun-2024 14:17
Xylenes, Total	**0.30**		**0.0030**	**mg/L**	1	28-May-2024 22:45
Surr: 1,2-Dichloroethane-d4	*82.0*		*70-126*	*%REC*	*1*	*28-May-2024 22:45*
Surr: 1,2-Dichloroethane-d4	*100*		*70-126*	*%REC*	*25*	*02-Jun-2024 14:17*
Surr: 4-Bromofluorobenzene	*101*		*77-113*	*%REC*	*1*	*28-May-2024 22:45*
Surr: 4-Bromofluorobenzene	*97.3*		*77-113*	*%REC*	*25*	*02-Jun-2024 14:17*
Surr: Dibromofluoromethane	*84.5*		*77-123*	*%REC*	*1*	*28-May-2024 22:45*
Surr: Dibromofluoromethane	*99.9*		*77-123*	*%REC*	*25*	*02-Jun-2024 14:17*
Surr: Toluene-d8	*97.7*		*82-127*	*%REC*	*1*	*28-May-2024 22:45*
Surr: Toluene-d8	*96.9*		*82-127*	*%REC*	*25*	*02-Jun-2024 14:17*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-9-05202024
Collection Date: 20-May-2024 15:10

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	02-Jun-2024 12:41
Ethylbenzene	< 0.0010		0.0010	mg/L	1	02-Jun-2024 12:41
Toluene	< 0.0010		0.0010	mg/L	1	02-Jun-2024 12:41
Xylenes, Total	< 0.0030		0.0030	mg/L	1	02-Jun-2024 12:41
Surr: 1,2-Dichloroethane-d4	*96.4*		*70-126*	*%REC*	*1*	*02-Jun-2024 12:41*
Surr: 4-Bromofluorobenzene	*97.5*		*77-113*	*%REC*	*1*	*02-Jun-2024 12:41*
Surr: Dibromofluoromethane	*98.1*		*77-123*	*%REC*	*1*	*02-Jun-2024 12:41*
Surr: Toluene-d8	*98.0*		*82-127*	*%REC*	*1*	*02-Jun-2024 12:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-10-05202024
Collection Date: 20-May-2024 16:10

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-11
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	28-May-2024 23:29
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-May-2024 23:29
Toluene	< 0.0010		0.0010	mg/L	1	28-May-2024 23:29
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-May-2024 23:29
Surr: 1,2-Dichloroethane-d4	*86.9*		*70-126*	*%REC*	*1*	*28-May-2024 23:29*
Surr: 4-Bromofluorobenzene	*95.4*		*77-113*	*%REC*	*1*	*28-May-2024 23:29*
Surr: Dibromofluoromethane	*91.4*		*77-123*	*%REC*	*1*	*28-May-2024 23:29*
Surr: Toluene-d8	*102*		*82-127*	*%REC*	*1*	*28-May-2024 23:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-11-05212024
Collection Date: 21-May-2024 09:55

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-12
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0084**		**0.0010**	**mg/L**	1	28-May-2024 23:51
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-May-2024 23:51
Toluene	< 0.0010		0.0010	mg/L	1	28-May-2024 23:51
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-May-2024 23:51
Surr: 1,2-Dichloroethane-d4	*87.1*		*70-126*	*%REC*	*1*	*28-May-2024 23:51*
Surr: 4-Bromofluorobenzene	*95.7*		*77-113*	*%REC*	*1*	*28-May-2024 23:51*
Surr: Dibromofluoromethane	*91.7*		*77-123*	*%REC*	*1*	*28-May-2024 23:51*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*28-May-2024 23:51*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-MW-12-05212024
Collection Date: 21-May-2024 11:30

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-13
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.19**		**0.0010**	**mg/L**	1	29-May-2024 00:13
Ethylbenzene	**0.016**		**0.0010**	**mg/L**	1	29-May-2024 00:13
Toluene	**0.066**		**0.0010**	**mg/L**	1	29-May-2024 00:13
Xylenes, Total	**0.039**		**0.0030**	**mg/L**	1	29-May-2024 00:13
Surr: 1,2-Dichloroethane-d4	*86.7*		*70-126*	*%REC*	*1*	*29-May-2024 00:13*
Surr: 4-Bromofluorobenzene	*99.5*		*77-113*	*%REC*	*1*	*29-May-2024 00:13*
Surr: Dibromofluoromethane	*91.4*		*77-123*	*%REC*	*1*	*29-May-2024 00:13*
Surr: Toluene-d8	*100*		*82-127*	*%REC*	*1*	*29-May-2024 00:13*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-DUP1-05202024
Collection Date: 20-May-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-14
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**1.1**		**0.025**	**mg/L**	25	02-Jun-2024 14:42
Ethylbenzene	**0.021**		**0.0010**	**mg/L**	1	29-May-2024 00:35
Toluene	**0.28**		**0.025**	**mg/L**	25	02-Jun-2024 14:42
Xylenes, Total	**0.26**		**0.0030**	**mg/L**	1	29-May-2024 00:35
Surr: 1,2-Dichloroethane-d4	*81.8*		*70-126*	*%REC*	*1*	*29-May-2024 00:35*
Surr: 1,2-Dichloroethane-d4	*95.2*		*70-126*	*%REC*	*25*	*02-Jun-2024 14:42*
Surr: 4-Bromofluorobenzene	*97.8*		*77-113*	*%REC*	*1*	*29-May-2024 00:35*
Surr: 4-Bromofluorobenzene	*96.9*		*77-113*	*%REC*	*25*	*02-Jun-2024 14:42*
Surr: Dibromofluoromethane	*85.2*		*77-123*	*%REC*	*1*	*29-May-2024 00:35*
Surr: Dibromofluoromethane	*97.1*		*77-123*	*%REC*	*25*	*02-Jun-2024 14:42*
Surr: Toluene-d8	*96.0*		*82-127*	*%REC*	*1*	*29-May-2024 00:35*
Surr: Toluene-d8	*97.5*		*82-127*	*%REC*	*25*	*02-Jun-2024 14:42*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
Sample ID: Chevron-DUP2-05202024
Collection Date: 21-May-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24051563
Lab ID:HS24051563-15
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0095**		**0.0010**	**mg/L**	1	29-May-2024 00:57
Ethylbenzene	< 0.0010		0.0010	mg/L	1	29-May-2024 00:57
Toluene	< 0.0010		0.0010	mg/L	1	29-May-2024 00:57
Xylenes, Total	< 0.0030		0.0030	mg/L	1	29-May-2024 00:57
Surr: 1,2-Dichloroethane-d4	*83.9*		*70-126*	*%REC*	*1*	*29-May-2024 00:57*
Surr: 4-Bromofluorobenzene	*94.1*		*77-113*	*%REC*	*1*	*29-May-2024 00:57*
Surr: Dibromofluoromethane	*88.4*		*77-123*	*%REC*	*1*	*29-May-2024 00:57*
Surr: Toluene-d8	*102*		*82-127*	*%REC*	*1*	*29-May-2024 00:57*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
WorkOrder: HS24051563

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R467814 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24051563-01	Chevron-MW-2-05202024	20 May 2024 10:33			28 May 2024 16:29	1
HS24051563-02	Chevron-MW-3-05202024	20 May 2024 11:06			28 May 2024 16:51	1
HS24051563-03	Chevron-MW-4-05202024	20 May 2024 12:41			28 May 2024 17:13	1
HS24051563-04	Chevron-MW-5-05202024	20 May 2024 13:28			28 May 2024 17:35	1
HS24051563-05	Chevron-MW-13-05202024	20 May 2024 14:23			28 May 2024 17:57	1
HS24051563-06	Chevron-MW-14-05202024	20 May 2024 15:01			28 May 2024 18:19	1
HS24051563-07	Chevron-MW-1-05202024	20 May 2024 15:32			28 May 2024 18:41	1
Batch ID: R467863 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24051563-08	Chevron-MW-6-05202024	20 May 2024 10:50			28 May 2024 22:23	1
HS24051563-09	Chevron-MW-8-05202024	20 May 2024 12:00			28 May 2024 22:45	1
HS24051563-11	Chevron-MW-10-05202024	20 May 2024 16:10			28 May 2024 23:29	1
HS24051563-12	Chevron-MW-11-05212024	21 May 2024 09:55			28 May 2024 23:51	1
HS24051563-13	Chevron-MW-12-05212024	21 May 2024 11:30			29 May 2024 00:13	1
HS24051563-14	Chevron-DUP1-05202024	20 May 2024 00:00			29 May 2024 00:35	1
HS24051563-15	Chevron-DUP2-05202024	21 May 2024 00:00			29 May 2024 00:57	1
Batch ID: R468283 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24051563-09	Chevron-MW-8-05202024	20 May 2024 12:00			02 Jun 2024 14:17	25
HS24051563-10	Chevron-MW-9-05202024	20 May 2024 15:10			02 Jun 2024 12:41	1
HS24051563-14	Chevron-DUP1-05202024	20 May 2024 00:00			02 Jun 2024 14:42	25

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
WorkOrder: HS24051563

QC BATCH REPORT

Batch ID: R467814 (0) **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-240528** Units: **ug/L** Analysis Date: **28-May-2024 10:32**
Client ID: Run ID: **VOA11_467814** SeqNo: **8032936** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*43.29*	*1.0*	*50*	*0*	*86.6*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*46.15*	*1.0*	*50*	*0*	*92.3*	*77 - 113*				
Surr: Dibromofluoromethane	*45.37*	*1.0*	*50*	*0*	*90.7*	*73 - 126*				
Surr: Toluene-d8	*48.51*	*1.0*	*50*	*0*	*97.0*	*81 - 120*				

LCS Sample ID: **VLCSW-240528** Units: **ug/L** Analysis Date: **28-May-2024 09:26**
Client ID: Run ID: **VOA11_467814** SeqNo: **8032934** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.18	1.0	20	0	85.9	74 - 120				
Ethylbenzene	16.12	1.0	20	0	80.6	77 - 117				
Toluene	16.89	1.0	20	0	84.4	77 - 118				
Xylenes, Total	48.66	3.0	60	0	81.1	75 - 122				
Surr: 1,2-Dichloroethane-d4	*41.96*	*1.0*	*50*	*0*	*83.9*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.77*	*1.0*	*50*	*0*	*99.5*	*77 - 113*				
Surr: Dibromofluoromethane	*44.87*	*1.0*	*50*	*0*	*89.7*	*73 - 126*				
Surr: Toluene-d8	*48.07*	*1.0*	*50*	*0*	*96.1*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240528** Units: **ug/L** Analysis Date: **28-May-2024 09:48**
Client ID: Run ID: **VOA11_467814** SeqNo: **8032935** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.74	1.0	20	0	83.7	74 - 120	17.18	2.58	20	
Ethylbenzene	16.45	1.0	20	0	82.3	77 - 117	16.12	2.05	20	
Toluene	16.97	1.0	20	0	84.9	77 - 118	16.89	0.495	20	
Xylenes, Total	49.26	3.0	60	0	82.1	75 - 122	48.66	1.24	20	
Surr: 1,2-Dichloroethane-d4	*42.12*	*1.0*	*50*	*0*	*84.2*	*70 - 123*	*41.96*	*0.393*	*20*	
Surr: 4-Bromofluorobenzene	*47.52*	*1.0*	*50*	*0*	*95.0*	*77 - 113*	*49.77*	*4.62*	*20*	
Surr: Dibromofluoromethane	*44.52*	*1.0*	*50*	*0*	*89.0*	*73 - 126*	*44.87*	*0.789*	*20*	
Surr: Toluene-d8	*49.29*	*1.0*	*50*	*0*	*98.6*	*81 - 120*	*48.07*	*2.5*	*20*	

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
WorkOrder: HS24051563

QC BATCH REPORT

Batch ID: R467814 (0) **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS24051563-07MS** Units: **ug/L** Analysis Date: **28-May-2024 19:03**
Client ID: **Chevron-MW-1-05202024** Run ID: **VOA11_467814** SeqNo: **8034425** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.28	1.0	20	5.877	57.0	70 - 127				S
Ethylbenzene	15.91	1.0	20	6.172	48.7	70 - 124				S
Toluene	16.87	1.0	20	18.75	-9.40	70 - 123				S
Xylenes, Total	47.69	3.0	60	7.022	67.8	70 - 130				S
Surr: 1,2-Dichloroethane-d4	*41.78*	*1.0*	*50*	*0*	*83.6*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.11*	*1.0*	*50*	*0*	*98.2*	*77 - 113*				
Surr: Dibromofluoromethane	*44.4*	*1.0*	*50*	*0*	*88.8*	*77 - 123*				
Surr: Toluene-d8	*48.2*	*1.0*	*50*	*0*	*96.4*	*82 - 127*				

MSD Sample ID: **HS24051563-07MSD** Units: **ug/L** Analysis Date: **28-May-2024 19:26**
Client ID: **Chevron-MW-1-05202024** Run ID: **VOA11_467814** SeqNo: **8034426** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	15.6	1.0	20	5.877	48.6	70 - 127	17.28	10.2	20	S
Ethylbenzene	14.53	1.0	20	6.172	41.8	70 - 124	15.91	9.03	20	S
Toluene	15.28	1.0	20	18.75	-17.4	70 - 123	16.87	9.95	20	S
Xylenes, Total	44.11	3.0	60	7.022	61.8	70 - 130	47.69	7.8	20	S
Surr: 1,2-Dichloroethane-d4	*42.86*	*1.0*	*50*	*0*	*85.7*	*70 - 126*	*41.78*	*2.56*	*20*	
Surr: 4-Bromofluorobenzene	*48.38*	*1.0*	*50*	*0*	*96.8*	*77 - 113*	*49.11*	*1.5*	*20*	
Surr: Dibromofluoromethane	*45.13*	*1.0*	*50*	*0*	*90.3*	*77 - 123*	*44.4*	*1.65*	*20*	
Surr: Toluene-d8	*47.95*	*1.0*	*50*	*0*	*95.9*	*82 - 127*	*48.2*	*0.513*	*20*	

The following samples were analyzed in this batch: HS24051563-01 HS24051563-02 HS24051563-03 HS24051563-04 HS24051563-05 HS24051563-06 HS24051563-07

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
WorkOrder: HS24051563

QC BATCH REPORT

Batch ID: R467863 (0) **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-240528** Units: **ug/L** Analysis Date: **28-May-2024 22:00**
Client ID: Run ID: **VOA11_467863** SeqNo: **8034466** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*43.45*	*1.0*	*50*	*0*	*86.9*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*48.37*	*1.0*	*50*	*0*	*96.7*	*77 - 113*				
Surr: Dibromofluoromethane	*45.12*	*1.0*	*50*	*0*	*90.2*	*73 - 126*				
Surr: Toluene-d8	*48.39*	*1.0*	*50*	*0*	*96.8*	*81 - 120*				

LCS Sample ID: **VLCSW-240528** Units: **ug/L** Analysis Date: **28-May-2024 20:54**
Client ID: Run ID: **VOA11_467863** SeqNo: **8034464** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.28	1.0	20	0	86.4	74 - 120				
Ethylbenzene	16.08	1.0	20	0	80.4	77 - 117				
Toluene	16.93	1.0	20	0	84.6	77 - 118				
Xylenes, Total	48.38	3.0	60	0	80.6	75 - 122				
Surr: 1,2-Dichloroethane-d4	*39.4*	*1.0*	*50*	*0*	*78.8*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*48.7*	*1.0*	*50*	*0*	*97.4*	*77 - 113*				
Surr: Dibromofluoromethane	*43.67*	*1.0*	*50*	*0*	*87.3*	*73 - 126*				
Surr: Toluene-d8	*48.43*	*1.0*	*50*	*0*	*96.9*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240528** Units: **ug/L** Analysis Date: **28-May-2024 21:16**
Client ID: Run ID: **VOA11_467863** SeqNo: **8034465** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.1	1.0	20	0	85.5	74 - 120	17.28	1.07	20	
Ethylbenzene	16.59	1.0	20	0	83.0	77 - 117	16.08	3.17	20	
Toluene	17.36	1.0	20	0	86.8	77 - 118	16.93	2.55	20	
Xylenes, Total	49.98	3.0	60	0	83.3	75 - 122	48.38	3.25	20	
Surr: 1,2-Dichloroethane-d4	*40.81*	*1.0*	*50*	*0*	*81.6*	*70 - 123*	*39.4*	*3.53*	*20*	
Surr: 4-Bromofluorobenzene	*48.16*	*1.0*	*50*	*0*	*96.3*	*77 - 113*	*48.7*	*1.12*	*20*	
Surr: Dibromofluoromethane	*44.05*	*1.0*	*50*	*0*	*88.1*	*73 - 126*	*43.67*	*0.866*	*20*	
Surr: Toluene-d8	*48.95*	*1.0*	*50*	*0*	*97.9*	*81 - 120*	*48.43*	*1.06*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
WorkOrder: HS24051563

QC BATCH REPORT

Batch ID: R467863 (0) **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS24051607-12MS** Units: **ug/L** Analysis Date: **29-May-2024 05:45**
Client ID: Run ID: **VOA11_467863** SeqNo: **8034487** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.99	1.0	20	0	85.0	70 - 127				
Ethylbenzene	15.33	1.0	20	0	76.6	70 - 124				
Toluene	16.09	1.0	20	0	80.4	70 - 123				
Xylenes, Total	44.8	3.0	60	0	74.7	70 - 130				
Surr: 1,2-Dichloroethane-d4	*41.64*	*1.0*	*50*	*0*	*83.3*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.13*	*1.0*	*50*	*0*	*98.3*	*77 - 113*				
Surr: Dibromofluoromethane	*44.48*	*1.0*	*50*	*0*	*89.0*	*77 - 123*				
Surr: Toluene-d8	*47.67*	*1.0*	*50*	*0*	*95.3*	*82 - 127*				

MSD Sample ID: **HS24051607-12MSD** Units: **ug/L** Analysis Date: **29-May-2024 06:07**
Client ID: Run ID: **VOA11_467863** SeqNo: **8034488** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.64	1.0	20	0	83.2	70 - 127	16.99	2.11	20	
Ethylbenzene	15.21	1.0	20	0	76.1	70 - 124	15.33	0.753	20	
Toluene	15.97	1.0	20	0	79.9	70 - 123	16.09	0.722	20	
Xylenes, Total	44.72	3.0	60	0	74.5	70 - 130	44.8	0.183	20	
Surr: 1,2-Dichloroethane-d4	*40.92*	*1.0*	*50*	*0*	*81.8*	*70 - 126*	*41.64*	*1.74*	*20*	
Surr: 4-Bromofluorobenzene	*49.11*	*1.0*	*50*	*0*	*98.2*	*77 - 113*	*49.13*	*0.0476*	*20*	
Surr: Dibromofluoromethane	*45.19*	*1.0*	*50*	*0*	*90.4*	*77 - 123*	*44.48*	*1.57*	*20*	
Surr: Toluene-d8	*48.43*	*1.0*	*50*	*0*	*96.9*	*82 - 127*	*47.67*	*1.59*	*20*	

The following samples were analyzed in this batch: HS24051563-08 HS24051563-09 HS24051563-11 HS24051563-12 HS24051563-13 HS24051563-14 HS24051563-15

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
WorkOrder: HS24051563

QC BATCH REPORT

Batch ID: R468283 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-240602** Units: **ug/L** Analysis Date: **02-Jun-2024 12:19**
Client ID: Run ID: **VOA4_468283** SeqNo: **8043210** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*48.66*	*1.0*	*50*	*0*	*97.3*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*48.46*	*1.0*	*50*	*0*	*96.9*	*77 - 113*				
Surr: Dibromofluoromethane	*50.76*	*1.0*	*50*	*0*	*102*	*73 - 126*				
Surr: Toluene-d8	*48.78*	*1.0*	*50*	*0*	*97.6*	*81 - 120*				

LCS Sample ID: **VLCSW-240602** Units: **ug/L** Analysis Date: **02-Jun-2024 11:10**
Client ID: Run ID: **VOA4_468283** SeqNo: **8043208** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.47	1.0	20	0	97.4	74 - 120				
Ethylbenzene	20.56	1.0	20	0	103	77 - 117				
Toluene	20.03	1.0	20	0	100	77 - 118				
Xylenes, Total	61.86	3.0	60	0	103	75 - 122				
Surr: 1,2-Dichloroethane-d4	*48.04*	*1.0*	*50*	*0*	*96.1*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*50.03*	*1.0*	*50*	*0*	*100*	*77 - 113*				
Surr: Dibromofluoromethane	*48.44*	*1.0*	*50*	*0*	*96.9*	*73 - 126*				
Surr: Toluene-d8	*49.96*	*1.0*	*50*	*0*	*99.9*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240602** Units: **ug/L** Analysis Date: **02-Jun-2024 11:33**
Client ID: Run ID: **VOA4_468283** SeqNo: **8043209** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.28	1.0	20	0	91.4	74 - 120	19.47	6.29	20	
Ethylbenzene	18.98	1.0	20	0	94.9	77 - 117	20.56	7.98	20	
Toluene	19	1.0	20	0	95.0	77 - 118	20.03	5.28	20	
Xylenes, Total	57.99	3.0	60	0	96.6	75 - 122	61.86	6.47	20	
Surr: 1,2-Dichloroethane-d4	*49.08*	*1.0*	*50*	*0*	*98.2*	*70 - 123*	*48.04*	*2.15*	*20*	
Surr: 4-Bromofluorobenzene	*51.21*	*1.0*	*50*	*0*	*102*	*77 - 113*	*50.03*	*2.34*	*20*	
Surr: Dibromofluoromethane	*49.71*	*1.0*	*50*	*0*	*99.4*	*73 - 126*	*48.44*	*2.6*	*20*	
Surr: Toluene-d8	*50.98*	*1.0*	*50*	*0*	*102*	*81 - 120*	*49.96*	*2.02*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
WorkOrder: HS24051563

QC BATCH REPORT

Batch ID: R468283 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS24051563-10MS** Units: **ug/L** Analysis Date: **02-Jun-2024 20:46**
Client ID: **Chevron-MW-9-05202024** Run ID: **VOA4_468283** SeqNo: **8043231** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.49	1.0	20	0.7562	83.7	70 - 127				
Ethylbenzene	17.57	1.0	20	0	87.8	70 - 124				
Toluene	16.92	1.0	20	0	84.6	70 - 123				
Xylenes, Total	51.37	3.0	60	0	85.6	70 - 130				
Surr: 1,2-Dichloroethane-d4	*51.18*	*1.0*	*50*	*0*	*102*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*50.5*	*1.0*	*50*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*49.77*	*1.0*	*50*	*0*	*99.5*	*77 - 123*				
Surr: Toluene-d8	*49.82*	*1.0*	*50*	*0*	*99.6*	*82 - 127*				

MSD Sample ID: **HS24051563-10MSD** Units: **ug/L** Analysis Date: **02-Jun-2024 21:09**
Client ID: **Chevron-MW-9-05202024** Run ID: **VOA4_468283** SeqNo: **8043232** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.82	1.0	20	0.7562	80.3	70 - 127	17.49	3.89	20	
Ethylbenzene	16.84	1.0	20	0	84.2	70 - 124	17.57	4.26	20	
Toluene	16.53	1.0	20	0	82.6	70 - 123	16.92	2.33	20	
Xylenes, Total	50.22	3.0	60	0	83.7	70 - 130	51.37	2.27	20	
Surr: 1,2-Dichloroethane-d4	*48.15*	*1.0*	*50*	*0*	*96.3*	*70 - 126*	*51.18*	*6.09*	*20*	
Surr: 4-Bromofluorobenzene	*50.61*	*1.0*	*50*	*0*	*101*	*77 - 113*	*50.5*	*0.226*	*20*	
Surr: Dibromofluoromethane	*49.04*	*1.0*	*50*	*0*	*98.1*	*77 - 123*	*49.77*	*1.49*	*20*	
Surr: Toluene-d8	*50.42*	*1.0*	*50*	*0*	*101*	*82 - 127*	*49.82*	*1.2*	*20*	

The following samples were analyzed in this batch: HS24051563-09 HS24051563-10 HS24051563-14

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Client: GHD
Project: 12604539- Chevron Grayburg 6-Inch
WorkOrder: **HS24051563**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jun-24

Sample Receipt Checklist

Work Order ID: HS24051563 **Date/Time Received:** 22-May-2024 10:15

Client Name: GHDHouston **Received by:** Si Ma

Completed By: /S/ Armand Morgan (eSignature) 24-May-2024 18:28 (Date/Time) **Reviewed by:** /S/ sebastian.lugo (eSignature) 28-May-2024 14:36 (Date/Time)

Matrices: W Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:317841/317842
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.5UC/1.6C		IR 31
Cooler(s)/Kit(s):	BLUE		
Date/Time sample(s) sent to storage:	05/24/24 18:30		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 2

COC ID: 317841

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	12604539- Chevron Grayburg 6-I	Project Name	12604539- Chevron Grayburg 6-Inch	A	8260_LL_W (8260 BTEX)
Work Order		Project Number	12604539	B	
Company Name	GHD	Bill To Company	Plains All American Pipeline, LP	C	
Send Report To	Chris Knight	Invoice Attn	Karolanne Hudgens	D	
Address	11451 Katy Fwy Suite 400	Address	c/o ENV-00, Accounts Payable P.O. Box 4648	E F	
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77210-4648	G	
Phone	(713) 734-3090	Phone	(713) 646-4610	H	
Fax	(713) 734-3391	Fax	(713) 646-4199	I	
e-Mail Address	Christopher.Knight@ghd.com	e-Mail Address	Karolanne.hudgens@plains.com	J	

HS24051563

GHD

12604539- Chevron Grayburg 6-Inch

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Cherron-MW-2-05202024	5-20-24	10:33	GW	Ice	3	✓										
2	Chevron-Mw-3-05802024	5-20-24	11:06	GW	Ice	3	✓										
3	Chevron-Mw-4-05202024	5-20-24	12:41	GW	Ice	3	✓										
4	Cherron-Mw-5-05202024	5-20-24	13:28	GW	Ice	3	✓										
5	Chevron-Mw-13-05202024	5-20-24	14:23	GW	Ice	3	✓										
6	Chevron-Mw-14-05202024	5-20-24	15:01	GW	Ice	3	✓										
7	Chevron-Mw-1-05202024	5-20-24	15:32	GW	Ice	3	✓										
8	Chevron-Mw-6-05202024	5-2024	10:50	GW	Ice	3	✓										
9	Chevron-Mw-8-05202024	5-20-24	12:00	GW	Ice	3	✓										
10	Chevron-MW-9-05202024	5-20-24	15:10	GW	Ice	3	✓										

Sampler(s) Please Print & Sign: Jairo Flores. Bryce M.

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Jairo Flores	5-21-24	11:20	
Relinquished by:	Date:	Time:	Received by (Laboratory): GM 05/22/24 10:15
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: 12604539- Chevron Grayburg 6-Inch Sec. 6

Cooler ID	Cooler Temp.
BMM	1.5

QC Package: (Check One Box Below)

[X] Level II Std QC [ ] TRRP Checklist

[ ] Level III Std QC/Raw Data [ ] TRRP Level IV

[ ] Level IV SW846 CLP

[ ] Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

DRM 3.1 CF +0.1

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 2 of 2

COC ID: 317842

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	12604539- Chevron Grayburg 6-I	Project Name	12604539- Chevron Grayburg 6-Inch	A	8260_LL_W (8260 BTEX)
Work Order		Project Number	12604539	B	
Company Name	GHD	Bill To Company	Plains All American Pipeline, LP	C	HS24051563
Send Report To	Chris Knight	Invoice Attn	Kerolanne Hudgens	D	GHD
Address	11451 Katy Fwy Suite 400	Address	c/o ENV-00, Accounts Payable P.O. Box 4648	E F	12604539- Chevron Grayburg 6-Inch
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77210-4648	G	
Phone	(713) 734-3090	Phone	(713) 646-4610	H	
Fax	(713) 734-3391	Fax	(713) 646-4199	I	
e-Mail Address	Christopher.Knight@ghd.com	e-Mail Address	Kerolanne.hudgens@plains.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Chevron-MW-10-05202024	5-20-24	16:10	GW	Ice	3	✓										
2	Chevron-MW-11-05212024	5-21-24	09:55	GW	Ice	3	✓										
3	Chevron-MW-12-05212024	5-21-24	11:30	GW	Ice	3	✓										
4	Chevron-Dup1-05202024	5-20-24	—	GW	Ice	3	✓										
5	Chevron-Dup2-05202024	5-21-24	—	GW	Ice	3	✓										
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Jairo F. Bryce M.

Shipment Method:

Required Turnaround Time: (Check Box) [X] STC 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hrs [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Jairo F.	5-21-24	11:20	
Relinquished by:	Date:	Time:	Received by (Laboratory): SM 05/22/24 10:15
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: 12604539- Chevron Grayburg 6-Inch Sec. 6

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
[X] Level II Std QC [ ] Level III Std QC/Raw Data [ ] Level IV SW846/CLP [ ] Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

September 03, 2024

Chris Knight
GHD
11451 Katy Fwy
Suite 400
Houston, TX 77079

Work Order: **HS24081403**

Laboratory Results for: **Chevron Grayburg 6-Inch**

Dear Chris Knight,

ALS Environmental received 15 sample(s) on Aug 22, 2024 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Work Order: HS24081403

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24081403-01	12604539-MW-2-20240819	Groundwater		19-Aug-2024 12:40	22-Aug-2024 09:45	☐
HS24081403-02	12604539-MW-3-20240819	Groundwater		19-Aug-2024 13:30	22-Aug-2024 09:45	☐
HS24081403-03	12604539-MW-4-20240820	Groundwater		20-Aug-2024 11:05	22-Aug-2024 09:45	☐
HS24081403-04	12604539-MW-5-20240819	Groundwater		19-Aug-2024 14:40	22-Aug-2024 09:45	☐
HS24081403-05	12604539-MW-13-20240820	Groundwater		20-Aug-2024 13:35	22-Aug-2024 09:45	☐
HS24081403-06	12604539-MW-14-20240820	Groundwater		20-Aug-2024 12:20	22-Aug-2024 09:45	☐
HS24081403-07	12604539-MW-1-20240820	Groundwater		20-Aug-2024 08:45	22-Aug-2024 09:45	☐
HS24081403-08	12604539-MW-8-20240819	Groundwater		19-Aug-2024 11:55	22-Aug-2024 09:45	☐
HS24081403-09	MW-6-20240819	Groundwater		19-Aug-2024 15:55	22-Aug-2024 09:45	☐
HS24081403-10	MW-9-20240820	Groundwater		20-Aug-2024 13:30	22-Aug-2024 09:45	☐
HS24081403-11	MW-10-20240820	Groundwater		20-Aug-2024 15:20	22-Aug-2024 09:45	☐
HS24081403-12	MW-11-20240820	Groundwater		20-Aug-2024 11:35	22-Aug-2024 09:45	☐
HS24081403-13	12604539-DUP-01-20240819	Groundwater		19-Aug-2024 00:00	22-Aug-2024 09:45	☐
HS24081403-14	DUP-02-20240820	Groundwater		20-Aug-2024 00:00	22-Aug-2024 09:45	☐
HS24081403-15	TRIP BLANK	Groundwater		19-Aug-2024 00:00	22-Aug-2024 09:45	☐

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD **CASE NARRATIVE**
Project: Chevron Grayburg 6-Inch
Work Order: HS24081403

GCMS Volatiles by Method SW8260

Batch ID: R476060

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

Batch ID: R475762,R475867,R476096

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

Batch ID: R475657

Sample ID: MW-6-20240819 (HS24081403-09)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference. Benzene

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: 12604539-MW-2-20240819
Collection Date: 19-Aug-2024 12:40

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 17:20
Ethylbenzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 17:20
Toluene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 17:20
Xylenes, Total	< 0.0030		0.0030	mg/L	1	27-Aug-2024 17:20
Surr: 1,2-Dichloroethane-d4	*111*		*70-126*	*%REC*	*1*	*27-Aug-2024 17:20*
Surr: 4-Bromofluorobenzene	*109*		*77-113*	*%REC*	*1*	*27-Aug-2024 17:20*
Surr: Dibromofluoromethane	*121*		*77-123*	*%REC*	*1*	*27-Aug-2024 17:20*
Surr: Toluene-d8	*87.0*		*82-127*	*%REC*	*1*	*27-Aug-2024 17:20*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: 12604539-MW-3-20240819
Collection Date: 19-Aug-2024 13:30

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 17:42
Ethylbenzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 17:42
Toluene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 17:42
Xylenes, Total	< 0.0030		0.0030	mg/L	1	27-Aug-2024 17:42
Surr: 1,2-Dichloroethane-d4	*111*		*70-126*	*%REC*	*1*	*27-Aug-2024 17:42*
Surr: 4-Bromofluorobenzene	*111*		*77-113*	*%REC*	*1*	*27-Aug-2024 17:42*
Surr: Dibromofluoromethane	*121*		*77-123*	*%REC*	*1*	*27-Aug-2024 17:42*
Surr: Toluene-d8	*86.4*		*82-127*	*%REC*	*1*	*27-Aug-2024 17:42*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: 12604539-MW-4-20240820
Collection Date: 20-Aug-2024 11:05

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 18:05
Ethylbenzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 18:05
Toluene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 18:05
Xylenes, Total	< 0.0030		0.0030	mg/L	1	27-Aug-2024 18:05
Surr: 1,2-Dichloroethane-d4	*107*		*70-126*	*%REC*	*1*	*27-Aug-2024 18:05*
Surr: 4-Bromofluorobenzene	*105*		*77-113*	*%REC*	*1*	*27-Aug-2024 18:05*
Surr: Dibromofluoromethane	*115*		*77-123*	*%REC*	*1*	*27-Aug-2024 18:05*
Surr: Toluene-d8	*88.2*		*82-127*	*%REC*	*1*	*27-Aug-2024 18:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: 12604539-MW-5-20240819
Collection Date: 19-Aug-2024 14:40

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 18:27
Ethylbenzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 18:27
Toluene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 18:27
Xylenes, Total	< 0.0030		0.0030	mg/L	1	27-Aug-2024 18:27
Surr: 1,2-Dichloroethane-d4	*108*		*70-126*	*%REC*	*1*	*27-Aug-2024 18:27*
Surr: 4-Bromofluorobenzene	*111*		*77-113*	*%REC*	*1*	*27-Aug-2024 18:27*
Surr: Dibromofluoromethane	*115*		*77-123*	*%REC*	*1*	*27-Aug-2024 18:27*
Surr: Toluene-d8	*85.6*		*82-127*	*%REC*	*1*	*27-Aug-2024 18:27*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: 12604539-MW-13-20240820
Collection Date: 20-Aug-2024 13:35

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 18:49
Ethylbenzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 18:49
Toluene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 18:49
Xylenes, Total	< 0.0030		0.0030	mg/L	1	27-Aug-2024 18:49
Surr: 1,2-Dichloroethane-d4	*109*		*70-126*	*%REC*	*1*	*27-Aug-2024 18:49*
Surr: 4-Bromofluorobenzene	*108*		*77-113*	*%REC*	*1*	*27-Aug-2024 18:49*
Surr: Dibromofluoromethane	*118*		*77-123*	*%REC*	*1*	*27-Aug-2024 18:49*
Surr: Toluene-d8	*86.3*		*82-127*	*%REC*	*1*	*27-Aug-2024 18:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: 12604539-MW-14-20240820
Collection Date: 20-Aug-2024 12:20

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 19:12
Ethylbenzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 19:12
Toluene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 19:12
Xylenes, Total	< 0.0030		0.0030	mg/L	1	27-Aug-2024 19:12
Surr: 1,2-Dichloroethane-d4	*109*		*70-126*	*%REC*	*1*	*27-Aug-2024 19:12*
Surr: 4-Bromofluorobenzene	*108*		*77-113*	*%REC*	*1*	*27-Aug-2024 19:12*
Surr: Dibromofluoromethane	*113*		*77-123*	*%REC*	*1*	*27-Aug-2024 19:12*
Surr: Toluene-d8	*86.3*		*82-127*	*%REC*	*1*	*27-Aug-2024 19:12*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: 12604539-MW-1-20240820
Collection Date: 20-Aug-2024 08:45

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 19:34
Ethylbenzene	**0.0020**		**0.0010**	**mg/L**	1	27-Aug-2024 19:34
Toluene	**0.0035**		**0.0010**	**mg/L**	1	27-Aug-2024 19:34
Xylenes, Total	**0.0054**		**0.0030**	**mg/L**	1	27-Aug-2024 19:34
Surr: 1,2-Dichloroethane-d4	*109*		*70-126*	*%REC*	*1*	*27-Aug-2024 19:34*
Surr: 4-Bromofluorobenzene	*108*		*77-113*	*%REC*	*1*	*27-Aug-2024 19:34*
Surr: Dibromofluoromethane	*112*		*77-123*	*%REC*	*1*	*27-Aug-2024 19:34*
Surr: Toluene-d8	*84.5*		*82-127*	*%REC*	*1*	*27-Aug-2024 19:34*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: 12604539-MW-8-20240819
Collection Date: 19-Aug-2024 11:55

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.53**		**0.010**	**mg/L**	10	31-Aug-2024 12:35
Ethylbenzene	**0.0080**		**0.0010**	**mg/L**	1	27-Aug-2024 19:56
Toluene	**0.14**		**0.0010**	**mg/L**	1	27-Aug-2024 19:56
Xylenes, Total	**0.089**		**0.0030**	**mg/L**	1	27-Aug-2024 19:56
Surr: 1,2-Dichloroethane-d4	*113*		*70-126*	*%REC*	*1*	*27-Aug-2024 19:56*
Surr: 1,2-Dichloroethane-d4	*86.6*		*70-126*	*%REC*	*10*	*31-Aug-2024 12:35*
Surr: 4-Bromofluorobenzene	*108*		*77-113*	*%REC*	*1*	*27-Aug-2024 19:56*
Surr: 4-Bromofluorobenzene	*95.6*		*77-113*	*%REC*	*10*	*31-Aug-2024 12:35*
Surr: Dibromofluoromethane	*114*		*77-123*	*%REC*	*1*	*27-Aug-2024 19:56*
Surr: Dibromofluoromethane	*98.2*		*77-123*	*%REC*	*10*	*31-Aug-2024 12:35*
Surr: Toluene-d8	*85.8*		*82-127*	*%REC*	*1*	*27-Aug-2024 19:56*
Surr: Toluene-d8	*99.8*		*82-127*	*%REC*	*10*	*31-Aug-2024 12:35*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: MW-6-20240819
Collection Date: 19-Aug-2024 15:55

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 20:18
Ethylbenzene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 20:18
Toluene	< 0.0010		0.0010	mg/L	1	27-Aug-2024 20:18
Xylenes, Total	< 0.0030		0.0030	mg/L	1	27-Aug-2024 20:18
Surr: 1,2-Dichloroethane-d4	*111*		*70-126*	*%REC*	*1*	*27-Aug-2024 20:18*
Surr: 4-Bromofluorobenzene	*111*		*77-113*	*%REC*	*1*	*27-Aug-2024 20:18*
Surr: Dibromofluoromethane	*116*		*77-123*	*%REC*	*1*	*27-Aug-2024 20:18*
Surr: Toluene-d8	*85.3*		*82-127*	*%REC*	*1*	*27-Aug-2024 20:18*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: MW-9-20240820
Collection Date: 20-Aug-2024 13:30

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	28-Aug-2024 18:49
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-Aug-2024 18:49
Toluene	< 0.0010		0.0010	mg/L	1	28-Aug-2024 18:49
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-Aug-2024 18:49
Surr: 1,2-Dichloroethane-d4	*80.4*		*70-126*	*%REC*	*1*	*28-Aug-2024 18:49*
Surr: 4-Bromofluorobenzene	*94.5*		*77-113*	*%REC*	*1*	*28-Aug-2024 18:49*
Surr: Dibromofluoromethane	*91.5*		*77-123*	*%REC*	*1*	*28-Aug-2024 18:49*
Surr: Toluene-d8	*100.0*		*82-127*	*%REC*	*1*	*28-Aug-2024 18:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: MW-10-20240820
Collection Date: 20-Aug-2024 15:20

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-11
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0029**		**0.0010**	**mg/L**	1	28-Aug-2024 19:12
Ethylbenzene	< 0.0010		0.0010	mg/L	1	28-Aug-2024 19:12
Toluene	< 0.0010		0.0010	mg/L	1	28-Aug-2024 19:12
Xylenes, Total	< 0.0030		0.0030	mg/L	1	28-Aug-2024 19:12
Surr: 1,2-Dichloroethane-d4	*84.6*		*70-126*	*%REC*	*1*	*28-Aug-2024 19:12*
Surr: 4-Bromofluorobenzene	*91.9*		*77-113*	*%REC*	*1*	*28-Aug-2024 19:12*
Surr: Dibromofluoromethane	*96.6*		*77-123*	*%REC*	*1*	*28-Aug-2024 19:12*
Surr: Toluene-d8	*98.0*		*82-127*	*%REC*	*1*	*28-Aug-2024 19:12*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: MW-11-20240820
Collection Date: 20-Aug-2024 11:35

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-12
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0054**		**0.0010**	**mg/L**	1	29-Aug-2024 18:59
Ethylbenzene	< 0.0010		0.0010	mg/L	1	29-Aug-2024 18:59
Toluene	< 0.0010		0.0010	mg/L	1	29-Aug-2024 18:59
Xylenes, Total	< 0.0030		0.0030	mg/L	1	29-Aug-2024 18:59
Surr: 1,2-Dichloroethane-d4	*86.2*		*70-126*	*%REC*	*1*	*29-Aug-2024 18:59*
Surr: 4-Bromofluorobenzene	*92.7*		*77-113*	*%REC*	*1*	*29-Aug-2024 18:59*
Surr: Dibromofluoromethane	*95.4*		*77-123*	*%REC*	*1*	*29-Aug-2024 18:59*
Surr: Toluene-d8	*99.1*		*82-127*	*%REC*	*1*	*29-Aug-2024 18:59*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: 12604539-DUP-01-20240819
Collection Date: 19-Aug-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-13
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.38**		**0.010**	**mg/L**	10	31-Aug-2024 13:00
Ethylbenzene	**0.0088**		**0.0010**	**mg/L**	1	30-Aug-2024 19:23
Toluene	**0.18**		**0.0010**	**mg/L**	1	30-Aug-2024 19:23
Xylenes, Total	**0.094**		**0.0030**	**mg/L**	1	30-Aug-2024 19:23
Surr: 1,2-Dichloroethane-d4	*97.3*		*70-126*	*%REC*	*1*	*30-Aug-2024 19:23*
Surr: 1,2-Dichloroethane-d4	*89.2*		*70-126*	*%REC*	*10*	*31-Aug-2024 13:00*
Surr: 4-Bromofluorobenzene	*97.1*		*77-113*	*%REC*	*1*	*30-Aug-2024 19:23*
Surr: 4-Bromofluorobenzene	*95.8*		*77-113*	*%REC*	*10*	*31-Aug-2024 13:00*
Surr: Dibromofluoromethane	*99.8*		*77-123*	*%REC*	*1*	*30-Aug-2024 19:23*
Surr: Dibromofluoromethane	*98.4*		*77-123*	*%REC*	*10*	*31-Aug-2024 13:00*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*30-Aug-2024 19:23*
Surr: Toluene-d8	*99.6*		*82-127*	*%REC*	*10*	*31-Aug-2024 13:00*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: DUP-02-20240820
Collection Date: 20-Aug-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-14
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0041**		**0.0010**	**mg/L**	1	29-Aug-2024 19:22
Ethylbenzene	< 0.0010		0.0010	mg/L	1	29-Aug-2024 19:22
Toluene	< 0.0010		0.0010	mg/L	1	29-Aug-2024 19:22
Xylenes, Total	< 0.0030		0.0030	mg/L	1	29-Aug-2024 19:22
Surr: 1,2-Dichloroethane-d4	*83.2*		*70-126*	*%REC*	*1*	*29-Aug-2024 19:22*
Surr: 4-Bromofluorobenzene	*92.6*		*77-113*	*%REC*	*1*	*29-Aug-2024 19:22*
Surr: Dibromofluoromethane	*93.0*		*77-123*	*%REC*	*1*	*29-Aug-2024 19:22*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*29-Aug-2024 19:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
Sample ID: TRIP BLANK
Collection Date: 19-Aug-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24081403
Lab ID:HS24081403-15
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	30-Aug-2024 18:38
Ethylbenzene	< 0.0010		0.0010	mg/L	1	30-Aug-2024 18:38
Toluene	< 0.0010		0.0010	mg/L	1	30-Aug-2024 18:38
Xylenes, Total	< 0.0030		0.0030	mg/L	1	30-Aug-2024 18:38
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*30-Aug-2024 18:38*
Surr: 4-Bromofluorobenzene	*95.1*		*77-113*	*%REC*	*1*	*30-Aug-2024 18:38*
Surr: Dibromofluoromethane	*102*		*77-123*	*%REC*	*1*	*30-Aug-2024 18:38*
Surr: Toluene-d8	*100*		*82-127*	*%REC*	*1*	*30-Aug-2024 18:38*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R475657 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24081403-01	12604539-MW-2-20240819	19 Aug 2024 12:40			27 Aug 2024 17:20	1
HS24081403-02	12604539-MW-3-20240819	19 Aug 2024 13:30			27 Aug 2024 17:42	1
HS24081403-03	12604539-MW-4-20240820	20 Aug 2024 11:05			27 Aug 2024 18:05	1
HS24081403-04	12604539-MW-5-20240819	19 Aug 2024 14:40			27 Aug 2024 18:27	1
HS24081403-05	12604539-MW-13-20240820	20 Aug 2024 13:35			27 Aug 2024 18:49	1
HS24081403-06	12604539-MW-14-20240820	20 Aug 2024 12:20			27 Aug 2024 19:12	1
HS24081403-07	12604539-MW-1-20240820	20 Aug 2024 08:45			27 Aug 2024 19:34	1
HS24081403-08	12604539-MW-8-20240819	19 Aug 2024 11:55			27 Aug 2024 19:56	1
HS24081403-09	MW-6-20240819	19 Aug 2024 15:55			27 Aug 2024 20:18	1
Batch ID: R475762 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24081403-10	MW-9-20240820	20 Aug 2024 13:30			28 Aug 2024 18:49	1
HS24081403-11	MW-10-20240820	20 Aug 2024 15:20			28 Aug 2024 19:12	1
Batch ID: R475867 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24081403-12	MW-11-20240820	20 Aug 2024 11:35			29 Aug 2024 18:59	1
HS24081403-14	DUP-02-20240820	20 Aug 2024 00:00			29 Aug 2024 19:22	1
Batch ID: R476060 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24081403-13	12604539-DUP-01-20240819	19 Aug 2024 00:00			30 Aug 2024 19:23	1
HS24081403-15	TRIP BLANK	19 Aug 2024 00:00			30 Aug 2024 18:38	1
Batch ID: R476096 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24081403-08	12604539-MW-8-20240819	19 Aug 2024 11:55			31 Aug 2024 12:35	10
HS24081403-13	12604539-DUP-01-20240819	19 Aug 2024 00:00			31 Aug 2024 13:00	10

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

QC BATCH REPORT

Batch ID: R475657 (0) **Instrument: VOA6** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-240827** Units: **ug/L** Analysis Date: **27-Aug-2024 11:09**
Client ID: Run ID: **VOA6_475657** SeqNo: **8215837** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*55.57*	*1.0*	*50*	*0*	*111*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*53.46*	*1.0*	*50*	*0*	*107*	*77 - 113*				
Surr: Dibromofluoromethane	*60.5*	*1.0*	*50*	*0*	*121*	*73 - 126*				
Surr: Toluene-d8	*43.9*	*1.0*	*50*	*0*	*87.8*	*81 - 120*				

LCS Sample ID: **VLCSW-240827** Units: **ug/L** Analysis Date: **27-Aug-2024 10:02**
Client ID: Run ID: **VOA6_475657** SeqNo: **8215835** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.01	1.0	20	0	95.1	74 - 120				
Ethylbenzene	17.67	1.0	20	0	88.3	77 - 117				
Toluene	16.83	1.0	20	0	84.1	77 - 118				
Xylenes, Total	54.5	3.0	60	0	90.8	75 - 122				
Surr: 1,2-Dichloroethane-d4	*52.72*	*1.0*	*50*	*0*	*105*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*52.1*	*1.0*	*50*	*0*	*104*	*77 - 113*				
Surr: Dibromofluoromethane	*56.95*	*1.0*	*50*	*0*	*114*	*73 - 126*				
Surr: Toluene-d8	*44.88*	*1.0*	*50*	*0*	*89.8*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240827** Units: **ug/L** Analysis Date: **27-Aug-2024 10:24**
Client ID: Run ID: **VOA6_475657** SeqNo: **8215836** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.04	1.0	20	0	90.2	74 - 120	19.01	5.26	20	
Ethylbenzene	16.11	1.0	20	0	80.6	77 - 117	17.67	9.23	20	
Toluene	15.6	1.0	20	0	78.0	77 - 118	16.83	7.6	20	
Xylenes, Total	50.32	3.0	60	0	83.9	75 - 122	54.5	7.99	20	
Surr: 1,2-Dichloroethane-d4	*53.66*	*1.0*	*50*	*0*	*107*	*70 - 123*	*52.72*	*1.78*	*20*	
Surr: 4-Bromofluorobenzene	*53.43*	*1.0*	*50*	*0*	*107*	*77 - 113*	*52.1*	*2.52*	*20*	
Surr: Dibromofluoromethane	*57.05*	*1.0*	*50*	*0*	*114*	*73 - 126*	*56.95*	*0.17*	*20*	
Surr: Toluene-d8	*43.47*	*1.0*	*50*	*0*	*86.9*	*81 - 120*	*44.88*	*3.2*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

QC BATCH REPORT

Batch ID: R475657 (0) **Instrument:** VOA6 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS Sample ID: **HS24081403-09MS** Units: **ug/L** Analysis Date: **27-Aug-2024 20:41**
Client ID: **MW-6-20240819** Run ID: **VOA6_475657** SeqNo: **8216298** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	25.43	1.0	20	0	127	70 - 127				S
Ethylbenzene	21.81	1.0	20	0	109	70 - 124				
Toluene	20.9	1.0	20	0	105	70 - 123				
Xylenes, Total	65.97	3.0	60	0	110	70 - 130				
Surr: 1,2-Dichloroethane-d4	*53.37*	*1.0*	*50*	*0*	*107*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*52.88*	*1.0*	*50*	*0*	*106*	*77 - 113*				
Surr: Dibromofluoromethane	*57.1*	*1.0*	*50*	*0*	*114*	*77 - 123*				
Surr: Toluene-d8	*42.23*	*1.0*	*50*	*0*	*84.5*	*82 - 127*				

MSD Sample ID: **HS24081403-09MSD** Units: **ug/L** Analysis Date: **27-Aug-2024 21:03**
Client ID: **MW-6-20240819** Run ID: **VOA6_475657** SeqNo: **8216299** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.12	1.0	20	0	116	70 - 127	25.43	9.51	20	
Ethylbenzene	19.49	1.0	20	0	97.5	70 - 124	21.81	11.2	20	
Toluene	18.94	1.0	20	0	94.7	70 - 123	20.9	9.84	20	
Xylenes, Total	60.17	3.0	60	0	100	70 - 130	65.97	9.18	20	
Surr: 1,2-Dichloroethane-d4	*54.33*	*1.0*	*50*	*0*	*109*	*70 - 126*	*53.37*	*1.78*	*20*	
Surr: 4-Bromofluorobenzene	*53.62*	*1.0*	*50*	*0*	*107*	*77 - 113*	*52.88*	*1.38*	*20*	
Surr: Dibromofluoromethane	*58.24*	*1.0*	*50*	*0*	*116*	*77 - 123*	*57.1*	*1.99*	*20*	
Surr: Toluene-d8	*42.47*	*1.0*	*50*	*0*	*84.9*	*82 - 127*	*42.23*	*0.557*	*20*	

The following samples were analyzed in this batch: HS24081403-01 HS24081403-02 HS24081403-03 HS24081403-04 HS24081403-05 HS24081403-06 HS24081403-07 HS24081403-08 HS24081403-09

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

QC BATCH REPORT

Batch ID: R475762 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-240828** Units: **ug/L** Analysis Date: **28-Aug-2024 11:54**
Client ID: Run ID: **VOA7_475762** SeqNo: **8217901** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*44.08*	*1.0*	*50*	*0*	*88.2*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*46.48*	*1.0*	*50*	*0*	*93.0*	*77 - 113*				
Surr: Dibromofluoromethane	*47.72*	*1.0*	*50*	*0*	*95.4*	*73 - 126*				
Surr: Toluene-d8	*49.49*	*1.0*	*50*	*0*	*99.0*	*81 - 120*				

LCS Sample ID: **VLCSW-240828** Units: **ug/L** Analysis Date: **28-Aug-2024 10:43**
Client ID: Run ID: **VOA7_475762** SeqNo: **8217899** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.69	1.0	20	0	88.4	74 - 120				
Ethylbenzene	18.43	1.0	20	0	92.1	77 - 117				
Toluene	17.36	1.0	20	0	86.8	77 - 118				
Xylenes, Total	53.66	3.0	60	0	89.4	75 - 122				
Surr: 1,2-Dichloroethane-d4	*45.89*	*1.0*	*50*	*0*	*91.8*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*47.98*	*1.0*	*50*	*0*	*96.0*	*77 - 113*				
Surr: Dibromofluoromethane	*48.56*	*1.0*	*50*	*0*	*97.1*	*73 - 126*				
Surr: Toluene-d8	*48.28*	*1.0*	*50*	*0*	*96.6*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240828** Units: **ug/L** Analysis Date: **28-Aug-2024 11:06**
Client ID: Run ID: **VOA7_475762** SeqNo: **8217900** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.25	1.0	20	0	86.3	74 - 120	17.69	2.49	20	
Ethylbenzene	18.16	1.0	20	0	90.8	77 - 117	18.43	1.45	20	
Toluene	16.85	1.0	20	0	84.3	77 - 118	17.36	2.97	20	
Xylenes, Total	51.73	3.0	60	0	86.2	75 - 122	53.66	3.66	20	
Surr: 1,2-Dichloroethane-d4	*45.02*	*1.0*	*50*	*0*	*90.0*	*70 - 123*	*45.89*	*1.91*	*20*	
Surr: 4-Bromofluorobenzene	*47.48*	*1.0*	*50*	*0*	*95.0*	*77 - 113*	*47.98*	*1.05*	*20*	
Surr: Dibromofluoromethane	*49.56*	*1.0*	*50*	*0*	*99.1*	*73 - 126*	*48.56*	*2.03*	*20*	
Surr: Toluene-d8	*48.09*	*1.0*	*50*	*0*	*96.2*	*81 - 120*	*48.28*	*0.393*	*20*	

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

QC BATCH REPORT

Batch ID: R475762 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS24081213-03MS** Units: **ug/L** Analysis Date: **28-Aug-2024 20:43**
Client ID: Run ID: **VOA7_475762** SeqNo: **8218640** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.07	1.0	20	0	85.3	70 - 127				
Ethylbenzene	16.73	1.0	20	0	83.6	70 - 124				
Toluene	16.68	1.0	20	0	83.4	70 - 123				
Xylenes, Total	48.63	3.0	60	0	81.0	70 - 130				
Surr: 1,2-Dichloroethane-d4	*42.47*	*1.0*	*50*	*0*	*84.9*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*47.42*	*1.0*	*50*	*0*	*94.8*	*77 - 113*				
Surr: Dibromofluoromethane	*47.05*	*1.0*	*50*	*0*	*94.1*	*77 - 123*				
Surr: Toluene-d8	*49.66*	*1.0*	*50*	*0*	*99.3*	*82 - 127*				

MSD Sample ID: **HS24081213-03MSD** Units: **ug/L** Analysis Date: **28-Aug-2024 21:06**
Client ID: Run ID: **VOA7_475762** SeqNo: **8218641** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.51	1.0	20	0	82.5	70 - 127	17.07	3.33	20	
Ethylbenzene	16.44	1.0	20	0	82.2	70 - 124	16.73	1.74	20	
Toluene	15.83	1.0	20	0	79.2	70 - 123	16.68	5.18	20	
Xylenes, Total	47.21	3.0	60	0	78.7	70 - 130	48.63	2.97	20	
Surr: 1,2-Dichloroethane-d4	*45.13*	*1.0*	*50*	*0*	*90.3*	*70 - 126*	*42.47*	*6.08*	*20*	
Surr: 4-Bromofluorobenzene	*48.17*	*1.0*	*50*	*0*	*96.3*	*77 - 113*	*47.42*	*1.58*	*20*	
Surr: Dibromofluoromethane	*50.88*	*1.0*	*50*	*0*	*102*	*77 - 123*	*47.05*	*7.82*	*20*	
Surr: Toluene-d8	*48.21*	*1.0*	*50*	*0*	*96.4*	*82 - 127*	*49.66*	*2.98*	*20*	

The following samples were analyzed in this batch: HS24081403-10 HS24081403-11

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

QC BATCH REPORT

Batch ID: R475867 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-240828** Units: **ug/L** Analysis Date: **29-Aug-2024 11:39**
Client ID: Run ID: **VOA7_475867** SeqNo: **8219753** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*42.69*	*1.0*	*50*	*0*	*85.4*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*45.24*	*1.0*	*50*	*0*	*90.5*	*77 - 113*				
Surr: Dibromofluoromethane	*47.86*	*1.0*	*50*	*0*	*95.7*	*73 - 126*				
Surr: Toluene-d8	*49.9*	*1.0*	*50*	*0*	*99.8*	*81 - 120*				

LCS Sample ID: **VLCSW-240828** Units: **ug/L** Analysis Date: **29-Aug-2024 10:30**
Client ID: Run ID: **VOA7_475867** SeqNo: **8219751** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.48	1.0	20	0	92.4	74 - 120				
Ethylbenzene	19.3	1.0	20	0	96.5	77 - 117				
Toluene	18.33	1.0	20	0	91.6	77 - 118				
Xylenes, Total	56.03	3.0	60	0	93.4	75 - 122				
Surr: 1,2-Dichloroethane-d4	*45.58*	*1.0*	*50*	*0*	*91.2*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*47.08*	*1.0*	*50*	*0*	*94.2*	*77 - 113*				
Surr: Dibromofluoromethane	*50.17*	*1.0*	*50*	*0*	*100*	*73 - 126*				
Surr: Toluene-d8	*48.09*	*1.0*	*50*	*0*	*96.2*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240828** Units: **ug/L** Analysis Date: **29-Aug-2024 10:53**
Client ID: Run ID: **VOA7_475867** SeqNo: **8219752** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.63	1.0	20	0	88.1	74 - 120	18.48	4.73	20	
Ethylbenzene	19	1.0	20	0	95.0	77 - 117	19.3	1.58	20	
Toluene	18.01	1.0	20	0	90.0	77 - 118	18.33	1.76	20	
Xylenes, Total	55.81	3.0	60	0	93.0	75 - 122	56.03	0.397	20	
Surr: 1,2-Dichloroethane-d4	*45.24*	*1.0*	*50*	*0*	*90.5*	*70 - 123*	*45.58*	*0.738*	*20*	
Surr: 4-Bromofluorobenzene	*48.96*	*1.0*	*50*	*0*	*97.9*	*77 - 113*	*47.08*	*3.91*	*20*	
Surr: Dibromofluoromethane	*49.43*	*1.0*	*50*	*0*	*98.9*	*73 - 126*	*50.17*	*1.49*	*20*	
Surr: Toluene-d8	*48.75*	*1.0*	*50*	*0*	*97.5*	*81 - 120*	*48.09*	*1.36*	*20*	

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

QC BATCH REPORT

Batch ID: R475867 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS24081360-08MS** Units: **ug/L** Analysis Date: **29-Aug-2024 20:33**
Client ID: Run ID: **VOA7_475867** SeqNo: **8221915** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	434.6	25	500	9.846	85.0	70 - 127				
Ethylbenzene	450.7	25	500	0	90.1	70 - 124				
Toluene	430.5	25	500	0	86.1	70 - 123				
Xylenes, Total	1302	75	1500	0	86.8	70 - 130				
Surr: 1,2-Dichloroethane-d4	*1187*	*25*	*1250*	*0*	*95.0*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*1248*	*25*	*1250*	*0*	*99.8*	*77 - 113*				
Surr: Dibromofluoromethane	*1252*	*25*	*1250*	*0*	*100*	*77 - 123*				
Surr: Toluene-d8	*1211*	*25*	*1250*	*0*	*96.9*	*82 - 127*				

MSD Sample ID: **HS24081360-08MSD** Units: **ug/L** Analysis Date: **29-Aug-2024 20:56**
Client ID: Run ID: **VOA7_475867** SeqNo: **8221916** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	423.6	25	500	9.846	82.8	70 - 127	434.6	2.57	20	
Ethylbenzene	443.2	25	500	0	88.6	70 - 124	450.7	1.68	20	
Toluene	411.9	25	500	0	82.4	70 - 123	430.5	4.4	20	
Xylenes, Total	1250	75	1500	0	83.3	70 - 130	1302	4.08	20	
Surr: 1,2-Dichloroethane-d4	*1165*	*25*	*1250*	*0*	*93.2*	*70 - 126*	*1187*	*1.89*	*20*	
Surr: 4-Bromofluorobenzene	*1243*	*25*	*1250*	*0*	*99.4*	*77 - 113*	*1248*	*0.4*	*20*	
Surr: Dibromofluoromethane	*1283*	*25*	*1250*	*0*	*103*	*77 - 123*	*1252*	*2.44*	*20*	
Surr: Toluene-d8	*1200*	*25*	*1250*	*0*	*96.0*	*82 - 127*	*1211*	*0.95*	*20*	

The following samples were analyzed in this batch: HS24081403-12 HS24081403-14

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

QC BATCH REPORT

Batch ID: R476060 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-240830** Units: **ug/L** Analysis Date: **30-Aug-2024 11:29**
Client ID: Run ID: **VOA7_476060** SeqNo: **8223800** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*44.86*	*1.0*	*50*	*0*	*89.7*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*46.52*	*1.0*	*50*	*0*	*93.0*	*77 - 113*				
Surr: Dibromofluoromethane	*46.51*	*1.0*	*50*	*0*	*93.0*	*73 - 126*				
Surr: Toluene-d8	*49.87*	*1.0*	*50*	*0*	*99.7*	*81 - 120*				

LCS Sample ID: **VLCSW-240830** Units: **ug/L** Analysis Date: **30-Aug-2024 10:20**
Client ID: Run ID: **VOA7_476060** SeqNo: **8223798** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.59	1.0	20	0	98.0	74 - 120				
Ethylbenzene	19.24	1.0	20	0	96.2	77 - 117				
Toluene	18.48	1.0	20	0	92.4	77 - 118				
Xylenes, Total	55.25	3.0	60	0	92.1	75 - 122				
Surr: 1,2-Dichloroethane-d4	*46.74*	*1.0*	*50*	*0*	*93.5*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.07*	*1.0*	*50*	*0*	*98.1*	*77 - 113*				
Surr: Dibromofluoromethane	*49.51*	*1.0*	*50*	*0*	*99.0*	*73 - 126*				
Surr: Toluene-d8	*49.19*	*1.0*	*50*	*0*	*98.4*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240830** Units: **ug/L** Analysis Date: **30-Aug-2024 10:43**
Client ID: Run ID: **VOA7_476060** SeqNo: **8223799** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.09	1.0	20	0	90.5	74 - 120	19.59	7.95	20	
Ethylbenzene	18.24	1.0	20	0	91.2	77 - 117	19.24	5.33	20	
Toluene	18.08	1.0	20	0	90.4	77 - 118	18.48	2.18	20	
Xylenes, Total	53.51	3.0	60	0	89.2	75 - 122	55.25	3.21	20	
Surr: 1,2-Dichloroethane-d4	*49.07*	*1.0*	*50*	*0*	*98.1*	*70 - 123*	*46.74*	*4.86*	*20*	
Surr: 4-Bromofluorobenzene	*49.05*	*1.0*	*50*	*0*	*98.1*	*77 - 113*	*49.07*	*0.0518*	*20*	
Surr: Dibromofluoromethane	*50.45*	*1.0*	*50*	*0*	*101*	*73 - 126*	*49.51*	*1.88*	*20*	
Surr: Toluene-d8	*49.62*	*1.0*	*50*	*0*	*99.2*	*81 - 120*	*49.19*	*0.869*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client:	GHD
Project:	Chevron Grayburg 6-Inch
WorkOrder:	HS24081403

QC BATCH REPORT

Batch ID:	**R476060 (0)**	**Instrument:**	**VOA7**	**Method:**	**LOW LEVEL VOLATILES BY SW8260C**

The following samples were analyzed in this batch: HS24081403-13 HS24081403-15

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

QC BATCH REPORT

Batch ID: R476096 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-240831** Units: **ug/L** Analysis Date: **31-Aug-2024 11:48**
Client ID: Run ID: **VOA7_476096** SeqNo: **8224530** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Surr: 1,2-Dichloroethane-d4	*42.39*	*1.0*	*50*	*0*	*84.8*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*47.05*	*1.0*	*50*	*0*	*94.1*	*77 - 113*				
Surr: Dibromofluoromethane	*47.16*	*1.0*	*50*	*0*	*94.3*	*73 - 126*				
Surr: Toluene-d8	*50.77*	*1.0*	*50*	*0*	*102*	*81 - 120*				

LCS Sample ID: **VLCSW-240831** Units: **ug/L** Analysis Date: **31-Aug-2024 10:39**
Client ID: Run ID: **VOA7_476096** SeqNo: **8224528** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.35	1.0	20	0	96.7	74 - 120				
Surr: 1,2-Dichloroethane-d4	*45.87*	*1.0*	*50*	*0*	*91.7*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*48.59*	*1.0*	*50*	*0*	*97.2*	*77 - 113*				
Surr: Dibromofluoromethane	*52.4*	*1.0*	*50*	*0*	*105*	*73 - 126*				
Surr: Toluene-d8	*49.89*	*1.0*	*50*	*0*	*99.8*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240831** Units: **ug/L** Analysis Date: **31-Aug-2024 11:02**
Client ID: Run ID: **VOA7_476096** SeqNo: **8224529** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.19	1.0	20	0	96.0	74 - 120	19.35	0.798	20	
Surr: 1,2-Dichloroethane-d4	*46.66*	*1.0*	*50*	*0*	*93.3*	*70 - 123*	*45.87*	*1.71*	*20*	
Surr: 4-Bromofluorobenzene	*49.26*	*1.0*	*50*	*0*	*98.5*	*77 - 113*	*48.59*	*1.37*	*20*	
Surr: Dibromofluoromethane	*52*	*1.0*	*50*	*0*	*104*	*73 - 126*	*52.4*	*0.77*	*20*	
Surr: Toluene-d8	*49.13*	*1.0*	*50*	*0*	*98.3*	*81 - 120*	*49.89*	*1.54*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: HS24081403

QC BATCH REPORT

Batch ID: R476096 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS24081521-01MS** Units: **ug/L** Analysis Date: **31-Aug-2024 20:18**
Client ID: Run ID: **VOA7_476096** SeqNo: **8224551** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.17	1.0	20	0	85.8	70 - 127				
Surr: 1,2-Dichloroethane-d4	*48.72*	*1.0*	*50*	*0*	*97.4*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*48.73*	*1.0*	*50*	*0*	*97.5*	*77 - 113*				
Surr: Dibromofluoromethane	*51.62*	*1.0*	*50*	*0*	*103*	*77 - 123*				
Surr: Toluene-d8	*48.86*	*1.0*	*50*	*0*	*97.7*	*82 - 127*				

MSD Sample ID: **HS24081521-01MSD** Units: **ug/L** Analysis Date: **31-Aug-2024 20:40**
Client ID: Run ID: **VOA7_476096** SeqNo: **8224552** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.2	1.0	20	0	81.0	70 - 127	17.17	5.78	20	
Surr: 1,2-Dichloroethane-d4	*47.16*	*1.0*	*50*	*0*	*94.3*	*70 - 126*	*48.72*	*3.26*	*20*	
Surr: 4-Bromofluorobenzene	*48.62*	*1.0*	*50*	*0*	*97.2*	*77 - 113*	*48.73*	*0.227*	*20*	
Surr: Dibromofluoromethane	*49.03*	*1.0*	*50*	*0*	*98.1*	*77 - 123*	*51.62*	*5.15*	*20*	
Surr: Toluene-d8	*50.31*	*1.0*	*50*	*0*	*101*	*82 - 127*	*48.86*	*2.91*	*20*	

The following samples were analyzed in this batch: HS24081403-08 HS24081403-13

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Client: GHD
Project: Chevron Grayburg 6-Inch
WorkOrder: **HS24081403**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L22-90-R2	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Sep-24

Sample Receipt Checklist

Work Order ID: HS24081403 **Date/Time Received:** 22-Aug-2024 09:45

Client Name: GHDHouston **Received by:** Ruben Estrada-Jr

Completed By:	/S/ Ruben Estrada-Jr	22-Aug-2024 16:38	**Reviewed by:** /S/ salina zaid	23-Aug-2024 17:22
	eSignature	Date/Time	eSignature	Date/Time

Matrices: **WATER** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:320156/320155
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.8C		IR34
Cooler(s)/Kit(s):	52269		
Date/Time sample(s) sent to storage:	8/22/24 14:00		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH
+1 513 733 5336
Everett, WA
+1 425 356 2600
Fort Collins, CO
+1 970 490 1511
Holland, MI
+1 616 399 6070

Chain of Custody Form

Page _____ of _____

COC ID: 320156

HS24081403

GHD

12604539- Chevron Grayburg 6-Inch

Customer Information		Project Information	
Purchase Order	12604539- Chevron Grayburg 6-I	Project Name	12604539- Chevron Grayburg 6-Inch
Work Order		Project Number	12604539
Company Name	GHD	Bill To Company	Plains All American Pipeline, LP
Send Report To	Chris Knight	Invoice Attn	Karolanne Hudgens
Address	11451 Katy Fwy Suite 400	Address	c/o ENV-00, Accounts Payable P.O. Box 4648
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77210-4648
Phone	(713) 734-3090	Phone	(713) 646-4610
Fax	(713) 734-3391	Fax	(713) 646-4199
e-Mail Address	Christopher.Knight@ghd.com	e-Mail Address	Karolanne.hudgens@plains.com

ALS Project Manager:

A	8260_LL_W (8260 BTEX)
B	
C	
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	12604539-MW-2-20240819	8-19-24	12:40	GW	Ice	3	✓										
2	12604539-MW-3-20240819	8-19-24	13:30	GW	Ice	3	✓										
3	12604539-MW-4-20240820	8-20-24	11:05	GW	Ice	3	✓										
4	12604539-MW-5-20240819	8-19-24	14:40	GW	Ice	3	✓										
5	12604539-MW-13-20240820	8-20-24	13:35	GW	Ice	3	✓										
6	12604539-MW-14-20240820	8-20-24	12:20	GW	Ice	3	✓										
7	12604539-MW-1-20240820	8-20-24	08:45	GW	Ice	3	✓										
8	12604539-MW-8-20240819	8-19-24	11:55	GW	Ice	3	✓										
9	MW-6-20240819	8-19-24	15:55	GW	Ice	3	✓										
10	MW-9-20240820	8-20-24	13:30	GW	Ice	3	✓										

Sampler(s) Please Print & Sign: Krystle Fitzwater KB

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Rush ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 3 Wk Days ☐ 24 Hour

Results Due Date:

	Date:	Time:	
Relinquished by: Krystle Fitzwater KB	8-21-24	1500	Received by:
Relinquished by: Krystle Fitzwater	8/22/24	0945	Received by (Laboratory): Lillian Sit
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: 12604539- Chevron Grayburg 6-Inch Sec. 6

Cooler ID	Cooler Temp.
52269	3.8c

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other _____
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

IR34

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

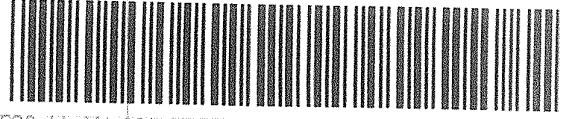
Page _____ of _____

COC ID: 320155

HS24081403

GHD

12604539- Chevron Grayburg 6-Inch



Customer Information		Project Information			
Purchase Order	12604539- Chevron Grayburg 6-I	Project Name	12604539- Chevron Grayburg 6-Inch	A	8260_LL_W (8260 BTEX)
Work Order		Project Number	12604539	B	
Company Name	GHD	Bill To Company	Plains All American Pipeline, LP	C	
Send Report To	Chris Knight	Invoice Attn	Karolanne Hudgens	D	
Address	11451 Katy Fwy Suite 400	Address	c/o ENV-00. Accounts Payable P.O. Box 4648	E	
				F	
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77210-4648	G	
Phone	(713) 734-3090	Phone	(713) 646-4610	H	
Fax	(713) 734-3391	Fax	(713) 646-4199	I	
e-Mail Address	Christopher.Knight@ghd.com	e-Mail Address	Karolanne.hudgens@plains.com	J	

ALS Project Manager:

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-10-20240820	8-20-24	15:20	GW	Ice	3	✓										
2	MW-11-20240820	8-20-24	11:35	GW	Ice	3	✓										
3	12604539-DUP-01-20240819	8-19-24	—	GW	Ice	3	✓										
4	DUP-02-20240820	8-20-24	—	GW	Ice	3	✓										
5	Trip Blank	—	—	—	Ice	—	✓										
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Crystle Fitzwater KB

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 WK Days [ ] 5 WK Days [ ] 2 WK Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by: Crystle Fitzwater KB — Date: 8-21-24 — Time: 1500

Received by:

Relinquished by: — Date: — Time:

Received by (Laboratory):

Logged by (Laboratory): — Date: — Time:

Checked by (Laboratory):

Notes: 12604539- Chevron Grayburg 6-Inch Sec. 6

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

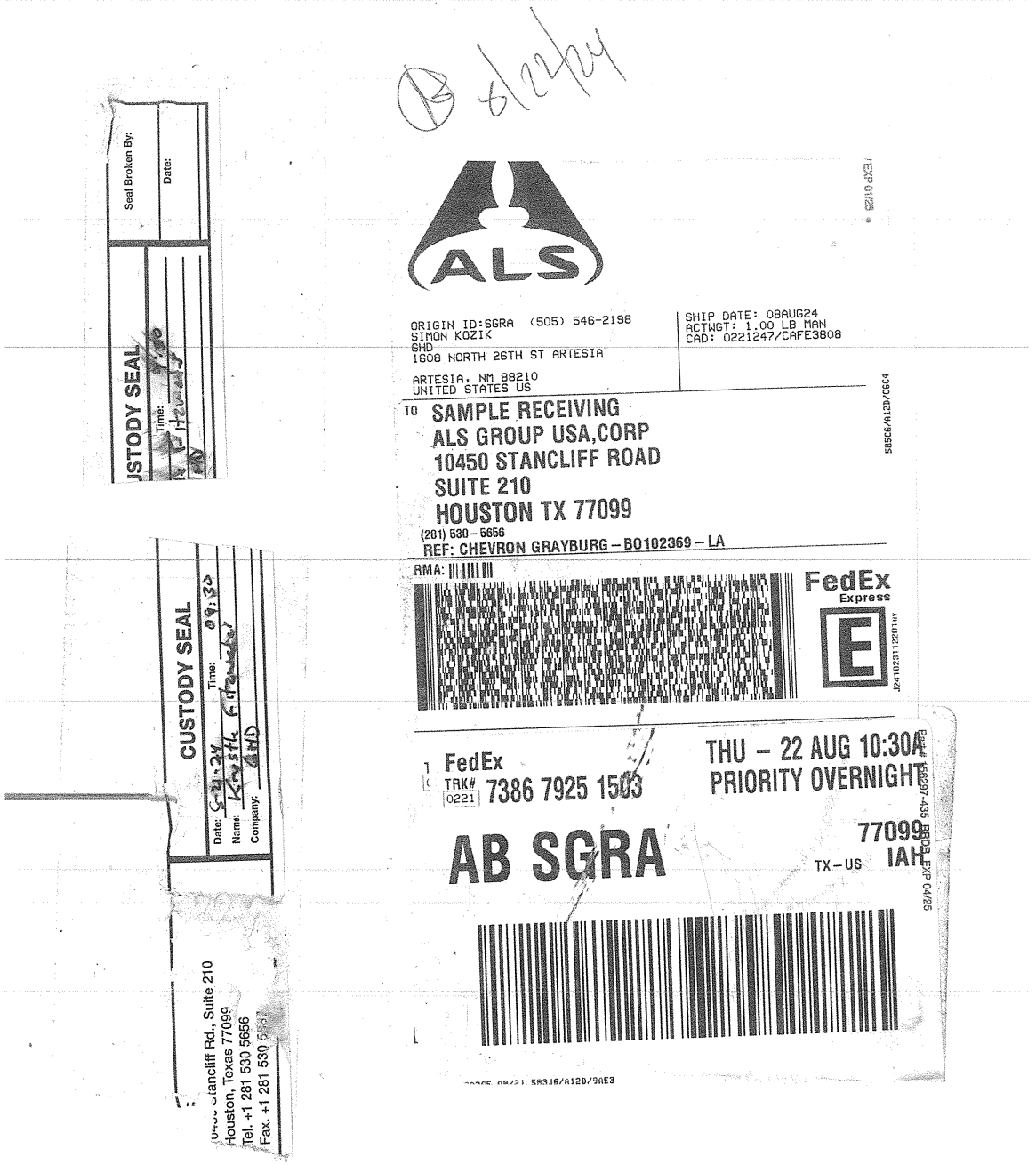
- [X] Level II Std QC
- [ ] Level II Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER



RIGHT SOLUTIONS | RIGHT PARTNER

right solutions.
right partner.

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

December 02, 2024

Adrianna Copeland
GHDHouston
11451 Katy Freeway
Suite 400
Houston, TX 77079

Work Order: **HS24111204**

Laboratory Results for: **Chevron Grayburg 6-Inch Sec. 6 (Historical)**

Dear Adrianna Copeland,

ALS Environmental received 16 sample(s) on Nov 20, 2024 for the analysis presented in the following report.

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

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

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

Sincerely,

Alexis Dorenbosch

Generated By: DAYNA.FISHER
Alexis Dorenbosch

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Work Order: HS24111204

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24111204-01	12604539-MW-2-20241118	Groundwater		18-Nov-2024 10:00	20-Nov-2024 09:25	☐
HS24111204-02	12604539-MW-3-20241118	Groundwater		18-Nov-2024 10:40	20-Nov-2024 09:25	☐
HS24111204-03	12604539-MW-4-20241118	Groundwater		18-Nov-2024 13:45	20-Nov-2024 09:25	☐
HS24111204-04	12604539-MW-5-20241118	Groundwater		18-Nov-2024 11:04	20-Nov-2024 09:25	☐
HS24111204-05	12604539-MW-13-20241118	Groundwater		18-Nov-2024 11:44	20-Nov-2024 09:25	☐
HS24111204-06	12604539-MW-14-20241118	Groundwater		18-Nov-2024 12:40	20-Nov-2024 09:25	☐
HS24111204-07	12604539-MW-1-20241118	Groundwater		18-Nov-2024 11:27	20-Nov-2024 09:25	☐
HS24111204-08	12604539-MW-6-20241118	Groundwater		18-Nov-2024 11:10	20-Nov-2024 09:25	☐
HS24111204-09	12604539-MW-8-20241119	Groundwater		19-Nov-2024 08:15	20-Nov-2024 09:25	☐
HS24111204-10	12604539-MW-9-20241118	Groundwater		18-Nov-2024 12:08	20-Nov-2024 09:25	☐
HS24111204-11	12604539-MW-10-20241118	Groundwater		18-Nov-2024 13:59	20-Nov-2024 09:25	☐
HS24111204-12	12604539-MW-11-20241119	Groundwater		19-Nov-2024 10:53	20-Nov-2024 09:25	☐
HS24111204-13	12604539-MW-12-20241119	Groundwater		19-Nov-2024 09:42	20-Nov-2024 09:25	☐
HS24111204-14	12604539-DUP-01-20241119	Groundwater		19-Nov-2024 00:00	20-Nov-2024 09:25	☐
HS24111204-15	12604539-DUP-02-20241119	Groundwater		19-Nov-2024 00:00	20-Nov-2024 09:25	☐
HS24111204-16	Trip Blank	Water	CG-091924-325	19-Nov-2024 00:00	20-Nov-2024 09:25	☐

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston **CASE NARRATIVE**
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Work Order: HS24111204

GCMS Semivolatiles by Method SW8270

Batch ID: 220929

Sample ID: LCS-220929

- The LCS and/or LCSD recovery was above the upper control limit. All sample results in the batch were non-detect. Benzo(b) fluoranthene

Sample ID: LCSD-220929

- The RPD between the LCS and LCSD was outside of the control limit.

GCMS Volatiles by Method SW8260

Batch ID: R501359

Sample ID: VLCSW-241202

- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

Batch ID: R501093

Sample ID: VLCSW-241123

- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

Batch ID: R500960

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

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-2-20241118
Collection Date: 18-Nov-2024 10:00

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: DP
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 00:29
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 00:29
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 00:29
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 00:29
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*24-Nov-2024 00:29*
Surr: 4-Bromofluorobenzene	*99.2*		*77-113*	*%REC*	*1*	*24-Nov-2024 00:29*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*24-Nov-2024 00:29*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*24-Nov-2024 00:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-3-20241118
Collection Date: 18-Nov-2024 10:40

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: DP
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 00:51
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 00:51
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 00:51
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 00:51
Surr: 1,2-Dichloroethane-d4	*99.5*		*70-126*	*%REC*	*1*	*24-Nov-2024 00:51*
Surr: 4-Bromofluorobenzene	*102*		*77-113*	*%REC*	*1*	*24-Nov-2024 00:51*
Surr: Dibromofluoromethane	*98.7*		*77-123*	*%REC*	*1*	*24-Nov-2024 00:51*
Surr: Toluene-d8	*94.8*		*82-127*	*%REC*	*1*	*24-Nov-2024 00:51*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-4-20241118
Collection Date: 18-Nov-2024 13:45

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: DP
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 01:12
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 01:12
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 01:12
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 01:12
Surr: 1,2-Dichloroethane-d4	*103*		*70-126*	*%REC*	*1*	*24-Nov-2024 01:12*
Surr: 4-Bromofluorobenzene	*96.9*		*77-113*	*%REC*	*1*	*24-Nov-2024 01:12*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*24-Nov-2024 01:12*
Surr: Toluene-d8	*102*		*82-127*	*%REC*	*1*	*24-Nov-2024 01:12*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-5-20241118
Collection Date: 18-Nov-2024 11:04

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: DP
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 01:33
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 01:33
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 01:33
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 01:33
Surr: 1,2-Dichloroethane-d4	*104*		*70-126*	*%REC*	*1*	*24-Nov-2024 01:33*
Surr: 4-Bromofluorobenzene	*96.7*		*77-113*	*%REC*	*1*	*24-Nov-2024 01:33*
Surr: Dibromofluoromethane	*102*		*77-123*	*%REC*	*1*	*24-Nov-2024 01:33*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*24-Nov-2024 01:33*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-13-20241118
Collection Date: 18-Nov-2024 11:44

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: DP
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 01:55
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 01:55
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 01:55
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 01:55
Surr: 1,2-Dichloroethane-d4	*103*		*70-126*	*%REC*	*1*	*24-Nov-2024 01:55*
Surr: 4-Bromofluorobenzene	*96.3*		*77-113*	*%REC*	*1*	*24-Nov-2024 01:55*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*24-Nov-2024 01:55*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*24-Nov-2024 01:55*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-14-20241118
Collection Date: 18-Nov-2024 12:40

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: FT
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 06:10
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 06:10
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 06:10
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 06:10
Surr: 1,2-Dichloroethane-d4	*100*		*70-126*	*%REC*	*1*	*24-Nov-2024 06:10*
Surr: 4-Bromofluorobenzene	*104*		*77-113*	*%REC*	*1*	*24-Nov-2024 06:10*
Surr: Dibromofluoromethane	*99.3*		*77-123*	*%REC*	*1*	*24-Nov-2024 06:10*
Surr: Toluene-d8	*94.5*		*82-127*	*%REC*	*1*	*24-Nov-2024 06:10*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-1-20241118
Collection Date: 18-Nov-2024 11:27

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: FT
Benzene	**0.0028**		**0.0010**	**mg/L**	1	24-Nov-2024 06:32
Ethylbenzene	**0.0058**		**0.0010**	**mg/L**	1	24-Nov-2024 06:32
Toluene	**0.0096**		**0.0010**	**mg/L**	1	24-Nov-2024 06:32
Xylenes, Total	**0.010**		**0.0030**	**mg/L**	1	24-Nov-2024 06:32
Surr: 1,2-Dichloroethane-d4	*99.6*		*70-126*	*%REC*	*1*	*24-Nov-2024 06:32*
Surr: 4-Bromofluorobenzene	*98.1*		*77-113*	*%REC*	*1*	*24-Nov-2024 06:32*
Surr: Dibromofluoromethane	*98.9*		*77-123*	*%REC*	*1*	*24-Nov-2024 06:32*
Surr: Toluene-d8	*102*		*82-127*	*%REC*	*1*	*24-Nov-2024 06:32*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-6-20241118
Collection Date: 18-Nov-2024 11:10

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: FT
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 06:53
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 06:53
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 06:53
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 06:53
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*24-Nov-2024 06:53*
Surr: 4-Bromofluorobenzene	*97.6*		*77-113*	*%REC*	*1*	*24-Nov-2024 06:53*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*24-Nov-2024 06:53*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*24-Nov-2024 06:53*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-8-20241119
Collection Date: 19-Nov-2024 08:15

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: FT
Benzene	**0.062**		**0.0010**	**mg/L**	1	24-Nov-2024 07:14
Ethylbenzene	**0.0021**		**0.0010**	**mg/L**	1	24-Nov-2024 07:14
Toluene	**0.018**		**0.0010**	**mg/L**	1	24-Nov-2024 07:14
Xylenes, Total	**0.016**		**0.0030**	**mg/L**	1	24-Nov-2024 07:14
Surr: 1,2-Dichloroethane-d4	*103*		*70-126*	*%REC*	*1*	*24-Nov-2024 07:14*
Surr: 4-Bromofluorobenzene	*98.4*		*77-113*	*%REC*	*1*	*24-Nov-2024 07:14*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*24-Nov-2024 07:14*
Surr: Toluene-d8	*102*		*82-127*	*%REC*	*1*	*24-Nov-2024 07:14*
LOW-LEVEL SEMIVOLATILES BY 8270D		**Method:SW8270**		Prep:SW3510 / 21-Nov-2024		Analyst: ML
Acenaphthene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Acenaphthylene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Anthracene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Benz(a)anthracene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Benzo(a)pyrene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Benzo(b)fluoranthene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Benzo(g,h,i)perylene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Benzo(k)fluoranthene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Chrysene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Dibenz(a,h)anthracene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Dibenzofuran	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Fluoranthene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Fluorene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Indeno(1,2,3-cd)pyrene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Naphthalene	**3.4**		**1.0**	**ug/L**	10	26-Nov-2024 22:06
Phenanthrene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Pyrene	< 1.0		1.0	ug/L	10	26-Nov-2024 22:06
Surr: 2-Fluorobiphenyl	*99.2*		*40-125*	*%REC*	*10*	*26-Nov-2024 22:06*
Surr: 4-Terphenyl-d14	*121*		*40-135*	*%REC*	*10*	*26-Nov-2024 22:06*
Surr: Nitrobenzene-d5	*95.2*		*41-120*	*%REC*	*10*	*26-Nov-2024 22:06*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-9-20241118
Collection Date: 18-Nov-2024 12:08

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: FT
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 07:36
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 07:36
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 07:36
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 07:36
Surr: 1,2-Dichloroethane-d4	*99.0*		*70-126*	*%REC*	*1*	*24-Nov-2024 07:36*
Surr: 4-Bromofluorobenzene	*99.0*		*77-113*	*%REC*	*1*	*24-Nov-2024 07:36*
Surr: Dibromofluoromethane	*99.8*		*77-123*	*%REC*	*1*	*24-Nov-2024 07:36*
Surr: Toluene-d8	*97.9*		*82-127*	*%REC*	*1*	*24-Nov-2024 07:36*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-10-20241118
Collection Date: 18-Nov-2024 13:59

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-11
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: FT
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 07:57
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 07:57
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 07:57
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 07:57
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*24-Nov-2024 07:57*
Surr: 4-Bromofluorobenzene	*99.4*		*77-113*	*%REC*	*1*	*24-Nov-2024 07:57*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*24-Nov-2024 07:57*
Surr: Toluene-d8	*99.4*		*82-127*	*%REC*	*1*	*24-Nov-2024 07:57*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-11-20241119
Collection Date: 19-Nov-2024 10:53

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-12
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: FT
Benzene	**0.017**		**0.0010**	**mg/L**	1	24-Nov-2024 08:18
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 08:18
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 08:18
Xylenes, Total	**0.0045**		**0.0030**	**mg/L**	1	24-Nov-2024 08:18
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*24-Nov-2024 08:18*
Surr: 4-Bromofluorobenzene	*98.9*		*77-113*	*%REC*	*1*	*24-Nov-2024 08:18*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*24-Nov-2024 08:18*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*24-Nov-2024 08:18*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-MW-12-20241119
Collection Date: 19-Nov-2024 09:42

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-13
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: DP
Benzene	**0.46**		**0.010**	**mg/L**	10	02-Dec-2024 12:22
Ethylbenzene	**0.015**		**0.0010**	**mg/L**	1	24-Nov-2024 08:40
Toluene	**0.052**		**0.0010**	**mg/L**	1	24-Nov-2024 08:40
Xylenes, Total	**0.055**		**0.0030**	**mg/L**	1	24-Nov-2024 08:40
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*24-Nov-2024 08:40*
Surr: 1,2-Dichloroethane-d4	*93.7*		*70-126*	*%REC*	*10*	*02-Dec-2024 12:22*
Surr: 4-Bromofluorobenzene	*97.8*		*77-113*	*%REC*	*1*	*24-Nov-2024 08:40*
Surr: 4-Bromofluorobenzene	*98.8*		*77-113*	*%REC*	*10*	*02-Dec-2024 12:22*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*24-Nov-2024 08:40*
Surr: Dibromofluoromethane	*103*		*77-123*	*%REC*	*10*	*02-Dec-2024 12:22*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*24-Nov-2024 08:40*
Surr: Toluene-d8	*94.1*		*82-127*	*%REC*	*10*	*02-Dec-2024 12:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-DUP-01-20241119
Collection Date: 19-Nov-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-14
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: FT
Benzene	**0.066**		**0.0010**	**mg/L**	1	24-Nov-2024 09:01
Ethylbenzene	**0.0023**		**0.0010**	**mg/L**	1	24-Nov-2024 09:01
Toluene	**0.020**		**0.0010**	**mg/L**	1	24-Nov-2024 09:01
Xylenes, Total	**0.018**		**0.0030**	**mg/L**	1	24-Nov-2024 09:01
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*24-Nov-2024 09:01*
Surr: 4-Bromofluorobenzene	*99.1*		*77-113*	*%REC*	*1*	*24-Nov-2024 09:01*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*24-Nov-2024 09:01*
Surr: Toluene-d8	*102*		*82-127*	*%REC*	*1*	*24-Nov-2024 09:01*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: 12604539-DUP-02-20241119
Collection Date: 19-Nov-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-15
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: FT
Benzene	**0.018**		**0.0010**	**mg/L**	1	24-Nov-2024 09:22
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 09:22
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 09:22
Xylenes, Total	**0.0045**		**0.0030**	**mg/L**	1	24-Nov-2024 09:22
Surr: 1,2-Dichloroethane-d4	*101*		*70-126*	*%REC*	*1*	*24-Nov-2024 09:22*
Surr: 4-Bromofluorobenzene	*99.7*		*77-113*	*%REC*	*1*	*24-Nov-2024 09:22*
Surr: Dibromofluoromethane	*99.2*		*77-123*	*%REC*	*1*	*24-Nov-2024 09:22*
Surr: Toluene-d8	*99.3*		*82-127*	*%REC*	*1*	*24-Nov-2024 09:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
Sample ID: Trip Blank
Collection Date: 19-Nov-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24111204
Lab ID:HS24111204-16
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: FT
Benzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 05:49
Ethylbenzene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 05:49
Toluene	< 0.0010		0.0010	mg/L	1	24-Nov-2024 05:49
Xylenes, Total	< 0.0030		0.0030	mg/L	1	24-Nov-2024 05:49
Surr: 1,2-Dichloroethane-d4	*103*		*70-126*	*%REC*	*1*	*24-Nov-2024 05:49*
Surr: 4-Bromofluorobenzene	*98.1*		*77-113*	*%REC*	*1*	*24-Nov-2024 05:49*
Surr: Dibromofluoromethane	*100*		*77-123*	*%REC*	*1*	*24-Nov-2024 05:49*
Surr: Toluene-d8	*101*		*82-127*	*%REC*	*1*	*24-Nov-2024 05:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

Batch ID: 220929 **Start Date:** 21 Nov 2024 14:13 **End Date:** 21 Nov 2024 14:13
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24111204-09	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Released to Imaging: 10/8/2025 2:00:48 PM
RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 220929 (0)	**Test Name :** LOW-LEVEL SEMIVOLATILES BY 8270D				**Matrix:** Groundwater	
HS24111204-09	12604539-MW-8-20241119	19 Nov 2024 08:15		21 Nov 2024 14:13	26 Nov 2024 22:06	10
Batch ID: R500960 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24111204-01	12604539-MW-2-20241118	18 Nov 2024 10:00			24 Nov 2024 00:29	1
HS24111204-02	12604539-MW-3-20241118	18 Nov 2024 10:40			24 Nov 2024 00:51	1
HS24111204-03	12604539-MW-4-20241118	18 Nov 2024 13:45			24 Nov 2024 01:12	1
HS24111204-04	12604539-MW-5-20241118	18 Nov 2024 11:04			24 Nov 2024 01:33	1
HS24111204-05	12604539-MW-13-20241118	18 Nov 2024 11:44			24 Nov 2024 01:55	1
Batch ID: R501093 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS24111204-16	Trip Blank	19 Nov 2024 00:00			24 Nov 2024 05:49	1
Batch ID: R501093 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24111204-06	12604539-MW-14-20241118	18 Nov 2024 12:40			24 Nov 2024 06:10	1
HS24111204-07	12604539-MW-1-20241118	18 Nov 2024 11:27			24 Nov 2024 06:32	1
HS24111204-08	12604539-MW-6-20241118	18 Nov 2024 11:10			24 Nov 2024 06:53	1
HS24111204-09	12604539-MW-8-20241119	19 Nov 2024 08:15			24 Nov 2024 07:14	1
HS24111204-10	12604539-MW-9-20241118	18 Nov 2024 12:08			24 Nov 2024 07:36	1
HS24111204-11	12604539-MW-10-20241118	18 Nov 2024 13:59			24 Nov 2024 07:57	1
HS24111204-12	12604539-MW-11-20241119	19 Nov 2024 10:53			24 Nov 2024 08:18	1
HS24111204-13	12604539-MW-12-20241119	19 Nov 2024 09:42			24 Nov 2024 08:40	1
HS24111204-14	12604539-DUP-01-20241119	19 Nov 2024 00:00			24 Nov 2024 09:01	1
HS24111204-15	12604539-DUP-02-20241119	19 Nov 2024 00:00			24 Nov 2024 09:22	1
Batch ID: R501359 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24111204-13	12604539-MW-12-20241119	19 Nov 2024 09:42			02 Dec 2024 12:22	10

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

QC BATCH REPORT

Batch ID: 220929 (0) **Instrument: SV-10** **Method: LOW-LEVEL SEMIVOLATILES BY 8270D**

MBLK Sample ID: **MBLK-220929** Units: **ug/L** Analysis Date: **26-Nov-2024 13:31**
Client ID: Run ID: **SV-10_501084** SeqNo: **8553898** PrepDate: **21-Nov-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	< 0.10	0.10								
Acenaphthylene	< 0.10	0.10								
Anthracene	< 0.10	0.10								
Benz(a)anthracene	< 0.10	0.10								
Benzo(a)pyrene	< 0.10	0.10								
Benzo(b)fluoranthene	< 0.10	0.10								
Benzo(g,h,i)perylene	< 0.10	0.10								
Benzo(k)fluoranthene	< 0.10	0.10								
Chrysene	< 0.10	0.10								
Dibenz(a,h)anthracene	< 0.10	0.10								
Dibenzofuran	< 0.10	0.10								
Fluoranthene	< 0.10	0.10								
Fluorene	< 0.10	0.10								
Indeno(1,2,3-cd)pyrene	< 0.10	0.10								
Naphthalene	< 0.10	0.10								
Phenanthrene	< 0.10	0.10								
Pyrene	< 0.10	0.10								
Surr: 2-Fluorobiphenyl	*4.559*	*0.20*	*5*	*0*	*91.2*	*40 - 125*				
Surr: 4-Terphenyl-d14	*5.838*	*0.20*	*5*	*0*	*117*	*40 - 135*				
Surr: Nitrobenzene-d5	*4.273*	*0.20*	*5*	*0*	*85.5*	*41 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

QC BATCH REPORT

Batch ID: 220929 (0) **Instrument: SV-10** **Method: LOW-LEVEL SEMIVOLATILES BY 8270D**

LCS Sample ID: **LCS-220929** Units: **ug/L** Analysis Date: **25-Nov-2024 15:11**
Client ID: Run ID: **SV-10_500965** SeqNo: **8553958** PrepDate: **21-Nov-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	5.168	0.10	5	0	103	45 - 120				
Acenaphthylene	5.146	0.10	5	0	103	47 - 120				
Anthracene	5.772	0.10	5	0	115	45 - 120				
Benz(a)anthracene	5.649	0.10	5	0	113	40 - 120				
Benzo(a)pyrene	5.758	0.10	5	0	115	45 - 120				
Benzo(b)fluoranthene	6.096	0.10	5	0	122	50 - 120				S
Benzo(g,h,i)perylene	5.659	0.10	5	0	113	42 - 127				
Benzo(k)fluoranthene	5.619	0.10	5	0	112	45 - 127				
Chrysene	5.658	0.10	5	0	113	43 - 120				
Dibenz(a,h)anthracene	5.573	0.10	5	0	111	45 - 125				
Dibenzofuran	5.506	0.10	5	0	110	50 - 120				
Fluoranthene	6.072	0.10	5	0	121	45 - 125				
Fluorene	5.385	0.10	5	0	108	49 - 120				
Indeno(1,2,3-cd)pyrene	5.605	0.10	5	0	112	41 - 128				
Naphthalene	4.985	0.10	5	0	99.7	45 - 120				
Phenanthrene	5.671	0.10	5	0	113	45 - 121				
Pyrene	5.936	0.10	5	0	119	40 - 130				
Surr: 2-Fluorobiphenyl	*5.519*	*0.20*	*5*	*0*	*110*	*40 - 125*				
Surr: 4-Terphenyl-d14	*5.975*	*0.20*	*5*	*0*	*119*	*40 - 135*				
Surr: Nitrobenzene-d5	*5.002*	*0.20*	*5*	*0*	*100*	*41 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

QC BATCH REPORT

Batch ID: 220929 (0) **Instrument: SV-10** **Method: LOW-LEVEL SEMIVOLATILES BY 8270D**

LCSD Sample ID: **LCSD-220929** Units: **ug/L** Analysis Date: **25-Nov-2024 15:34**
Client ID: Run ID: **SV-10_500965** SeqNo: **8553959** PrepDate: **21-Nov-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Acenaphthene	5.396	0.10	5	0	108	45 - 120	5.168	4.33	20	
Acenaphthylene	5.422	0.10	5	0	108	47 - 120	5.146	5.23	20	
Anthracene	5.95	0.10	5	0	119	45 - 120	5.772	3.05	20	
Benz(a)anthracene	5.37	0.10	5	0	107	40 - 120	5.649	5.06	20	
Benzo(a)pyrene	5.913	0.10	5	0	118	45 - 120	5.758	2.66	20	
Benzo(b)fluoranthene	6.578	0.10	5	0	132	50 - 120	6.096	7.61	20	S
Benzo(g,h,i)perylene	5.916	0.10	5	0	118	42 - 127	5.659	4.44	20	
Benzo(k)fluoranthene	5.908	0.10	5	0	118	45 - 127	5.619	5.02	20	
Chrysene	5.777	0.10	5	0	116	43 - 120	5.658	2.1	20	
Dibenz(a,h)anthracene	5.675	0.10	5	0	113	45 - 125	5.573	1.81	20	
Dibenzofuran	5.581	0.10	5	0	112	50 - 120	5.506	1.35	20	
Fluoranthene	6.096	0.10	5	0	122	45 - 125	6.072	0.389	20	
Fluorene	5.658	0.10	5	0	113	49 - 120	5.385	4.94	20	
Indeno(1,2,3-cd)pyrene	5.619	0.10	5	0	112	41 - 128	5.605	0.255	20	
Naphthalene	5.051	0.10	5	0	101	45 - 120	4.985	1.31	20	
Phenanthrene	5.833	0.10	5	0	117	45 - 121	5.671	2.8	20	
Pyrene	5.957	0.10	5	0	119	40 - 130	5.936	0.359	20	
Surr: 2-Fluorobiphenyl	*5.642*	*0.20*	*5*	*0*	*113*	*40 - 125*	*5.519*	*2.21*	*20*	
Surr: 4-Terphenyl-d14	*5.982*	*0.20*	*5*	*0*	*120*	*40 - 135*	*5.975*	*0.124*	*20*	
Surr: Nitrobenzene-d5	*5.091*	*0.20*	*5*	*0*	*102*	*41 - 120*	*5.002*	*1.77*	*20*	

The following samples were analyzed in this batch: HS24111204-09

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

QC BATCH REPORT

Batch ID: R500960 (0) **Instrument: VOA6** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-241123** Units: **ug/L** Analysis Date: **23-Nov-2024 19:10**
Client ID: Run ID: **VOA6_500960** SeqNo: **8551179** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*49.56*	*1.0*	*50*	*0*	*99.1*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.25*	*1.0*	*50*	*0*	*98.5*	*77 - 113*				
Surr: Dibromofluoromethane	*49.48*	*1.0*	*50*	*0*	*99.0*	*73 - 126*				
Surr: Toluene-d8	*48.53*	*1.0*	*50*	*0*	*97.1*	*81 - 120*				

LCS Sample ID: **VLCSW-241123** Units: **ug/L** Analysis Date: **23-Nov-2024 18:06**
Client ID: Run ID: **VOA6_500960** SeqNo: **8551177** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.81	1.0	20	0	94.1	74 - 120				
Ethylbenzene	19.05	1.0	20	0	95.3	77 - 117				
Toluene	19.18	1.0	20	0	95.9	77 - 118				
Xylenes, Total	56.74	3.0	60	0	94.6	75 - 122				
Surr: 1,2-Dichloroethane-d4	*50.43*	*1.0*	*50*	*0*	*101*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*48.97*	*1.0*	*50*	*0*	*97.9*	*77 - 113*				
Surr: Dibromofluoromethane	*50.03*	*1.0*	*50*	*0*	*100*	*73 - 126*				
Surr: Toluene-d8	*51.1*	*1.0*	*50*	*0*	*102*	*81 - 120*				

LCSD Sample ID: **VLCSDW-241123** Units: **ug/L** Analysis Date: **23-Nov-2024 18:27**
Client ID: Run ID: **VOA6_500960** SeqNo: **8551178** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.55	1.0	20	0	97.7	74 - 120	18.81	3.82	20	
Ethylbenzene	19.56	1.0	20	0	97.8	77 - 117	19.05	2.66	20	
Toluene	19.77	1.0	20	0	98.9	77 - 118	19.18	3.06	20	
Xylenes, Total	58.29	3.0	60	0	97.2	75 - 122	56.74	2.69	20	
Surr: 1,2-Dichloroethane-d4	*50.51*	*1.0*	*50*	*0*	*101*	*70 - 123*	*50.43*	*0.171*	*20*	
Surr: 4-Bromofluorobenzene	*49.62*	*1.0*	*50*	*0*	*99.2*	*77 - 113*	*48.97*	*1.3*	*20*	
Surr: Dibromofluoromethane	*50.22*	*1.0*	*50*	*0*	*100*	*73 - 126*	*50.03*	*0.377*	*20*	
Surr: Toluene-d8	*50.85*	*1.0*	*50*	*0*	*102*	*81 - 120*	*51.1*	*0.491*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

QC BATCH REPORT

Batch ID: R500960 (0) **Instrument: VOA6** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS24111185-07MS** Units: **ug/L** Analysis Date: **24-Nov-2024 02:37**
Client ID: Run ID: **VOA6_500960** SeqNo: **8551198** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.26	1.0	20	0	106	70 - 127				
Ethylbenzene	20.37	1.0	20	0	102	70 - 124				
Toluene	20.09	1.0	20	0	100	70 - 123				
Xylenes, Total	59.92	3.0	60	0	99.9	70 - 130				
Surr: 1,2-Dichloroethane-d4	*49.6*	*1.0*	*50*	*0*	*99.2*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*50.31*	*1.0*	*50*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*48.84*	*1.0*	*50*	*0*	*97.7*	*77 - 123*				
Surr: Toluene-d8	*48.99*	*1.0*	*50*	*0*	*98.0*	*82 - 127*				

MSD Sample ID: **HS24111185-07MSD** Units: **ug/L** Analysis Date: **24-Nov-2024 02:59**
Client ID: Run ID: **VOA6_500960** SeqNo: **8551199** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.53	1.0	20	0	108	70 - 127	21.26	1.27	20	
Ethylbenzene	21.7	1.0	20	0	108	70 - 124	20.37	6.29	20	
Toluene	21.15	1.0	20	0	106	70 - 123	20.09	5.13	20	
Xylenes, Total	62.96	3.0	60	0	105	70 - 130	59.92	4.96	20	
Surr: 1,2-Dichloroethane-d4	*50.07*	*1.0*	*50*	*0*	*100*	*70 - 126*	*49.6*	*0.937*	*20*	
Surr: 4-Bromofluorobenzene	*48.82*	*1.0*	*50*	*0*	*97.6*	*77 - 113*	*50.31*	*2.99*	*20*	
Surr: Dibromofluoromethane	*50.06*	*1.0*	*50*	*0*	*100*	*77 - 123*	*48.84*	*2.46*	*20*	
Surr: Toluene-d8	*49.98*	*1.0*	*50*	*0*	*100.0*	*82 - 127*	*48.99*	*2*	*20*	

The following samples were analyzed in this batch: HS24111204-01 HS24111204-02 HS24111204-03 HS24111204-04 HS24111204-05

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

QC BATCH REPORT

Batch ID: R501093 (0) **Instrument: VOA6** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-241123** Units: **ug/L** Analysis Date: **24-Nov-2024 05:28**
Client ID: Run ID: **VOA6_501093** SeqNo: **8554007** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*50.23*	*1.0*	*50*	*0*	*100*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*50.87*	*1.0*	*50*	*0*	*102*	*77 - 113*				
Surr: Dibromofluoromethane	*50.57*	*1.0*	*50*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*48.05*	*1.0*	*50*	*0*	*96.1*	*81 - 120*				

LCS Sample ID: **VLCSW-241123** Units: **ug/L** Analysis Date: **24-Nov-2024 04:24**
Client ID: Run ID: **VOA6_501093** SeqNo: **8554005** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.74	1.0	20	0	93.7	74 - 120				
Ethylbenzene	18.96	1.0	20	0	94.8	77 - 117				
Toluene	18.52	1.0	20	0	92.6	77 - 118				
Xylenes, Total	55.24	3.0	60	0	92.1	75 - 122				
Surr: 1,2-Dichloroethane-d4	*50.9*	*1.0*	*50*	*0*	*102*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.09*	*1.0*	*50*	*0*	*98.2*	*77 - 113*				
Surr: Dibromofluoromethane	*49.66*	*1.0*	*50*	*0*	*99.3*	*73 - 126*				
Surr: Toluene-d8	*49.42*	*1.0*	*50*	*0*	*98.8*	*81 - 120*				

LCSD Sample ID: **VLCSDW-241123** Units: **ug/L** Analysis Date: **24-Nov-2024 04:45**
Client ID: Run ID: **VOA6_501093** SeqNo: **8554006** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.12	1.0	20	0	95.6	74 - 120	18.74	2.02	20	
Ethylbenzene	19.3	1.0	20	0	96.5	77 - 117	18.96	1.82	20	
Toluene	19.01	1.0	20	0	95.1	77 - 118	18.52	2.64	20	
Xylenes, Total	56.89	3.0	60	0	94.8	75 - 122	55.24	2.94	20	
Surr: 1,2-Dichloroethane-d4	*50.19*	*1.0*	*50*	*0*	*100*	*70 - 123*	*50.9*	*1.4*	*20*	
Surr: 4-Bromofluorobenzene	*48.98*	*1.0*	*50*	*0*	*98.0*	*77 - 113*	*49.09*	*0.224*	*20*	
Surr: Dibromofluoromethane	*50.34*	*1.0*	*50*	*0*	*101*	*73 - 126*	*49.66*	*1.36*	*20*	
Surr: Toluene-d8	*49.96*	*1.0*	*50*	*0*	*99.9*	*81 - 120*	*49.42*	*1.09*	*20*	

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

QC BATCH REPORT

Batch ID: R501093 (0) **Instrument: VOA6** **Method: LOW LEVEL VOLATILES BY SW8260C**

The following samples were analyzed in this batch:

HS24111204-06	HS24111204-07	HS24111204-08	HS24111204-09
HS24111204-10	HS24111204-11	HS24111204-12	HS24111204-13
HS24111204-14	HS24111204-15	HS24111204-16	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: HS24111204

QC BATCH REPORT

Batch ID: R501359 (0) **Instrument: VOA14** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-241202** Units: **ug/L** Analysis Date: **02-Dec-2024 11:58**
Client ID: Run ID: **VOA14_501359** SeqNo: **8559849** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Surr: 1,2-Dichloroethane-d4	*44.73*	*1.0*	*50*	*0*	*89.5*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.81*	*1.0*	*50*	*0*	*99.6*	*77 - 113*				
Surr: Dibromofluoromethane	*49.9*	*1.0*	*50*	*0*	*99.8*	*73 - 126*				
Surr: Toluene-d8	*47.45*	*1.0*	*50*	*0*	*94.9*	*81 - 120*				

LCS Sample ID: **VLCSW-241202** Units: **ug/L** Analysis Date: **02-Dec-2024 10:46**
Client ID: Run ID: **VOA14_501359** SeqNo: **8559847** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.62	1.0	20	0	88.1	74 - 120				
Surr: 1,2-Dichloroethane-d4	*46.72*	*1.0*	*50*	*0*	*93.4*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.94*	*1.0*	*50*	*0*	*99.9*	*77 - 113*				
Surr: Dibromofluoromethane	*48.78*	*1.0*	*50*	*0*	*97.6*	*73 - 126*				
Surr: Toluene-d8	*47.6*	*1.0*	*50*	*0*	*95.2*	*81 - 120*				

LCSD Sample ID: **VLCSDW-241202** Units: **ug/L** Analysis Date: **02-Dec-2024 11:10**
Client ID: Run ID: **VOA14_501359** SeqNo: **8559848** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.87	1.0	20	0	84.3	74 - 120	17.62	4.35	20	
Surr: 1,2-Dichloroethane-d4	*47.51*	*1.0*	*50*	*0*	*95.0*	*70 - 123*	*46.72*	*1.67*	*20*	
Surr: 4-Bromofluorobenzene	*50.45*	*1.0*	*50*	*0*	*101*	*77 - 113*	*49.94*	*1.03*	*20*	
Surr: Dibromofluoromethane	*50.3*	*1.0*	*50*	*0*	*101*	*73 - 126*	*48.78*	*3.08*	*20*	
Surr: Toluene-d8	*47.93*	*1.0*	*50*	*0*	*95.9*	*81 - 120*	*47.6*	*0.682*	*20*	

The following samples were analyzed in this batch: HS24111204-13

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: Chevron Grayburg 6-Inch Sec. 6 (Historical)
WorkOrder: **HS24111204**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

Released to Imaging: 10/8/2025 2:00:48 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 02-Dec-24

Sample Receipt Checklist

Work Order ID: HS24111204 **Date/Time Received:** 20-Nov-2024 09:25

Client Name: GHDHouston **Received by:** Jacob Coronado

Completed By: /S/ Michael Lucio (eSignature) 20-Nov-2024 14:02 (Date/Time) **Reviewed by:** /S/ Alexis Dorenbosch (eSignature) 20-Nov-2024 16:19 (Date/Time)

Matrices: w Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:327517/327516
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	2.7uc/2.7c	IR34
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	11/20/2024 1403	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 327517

HS24111204

GHDHouston

Chevron Grayburg 6-Inch Sec. 6

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	SRS Chevron Grayburg 6-Inch Hi	Project Name	Chevron Grayburg 6-Inch Sec. 6	A	8260_LL_W (8260 BTEX)
Work Order		Project Number	SRS Chevron Grayburg 6-Inch Histo	B	8270_LOW_W (8270 PAHs (17))
Company Name	GHDHouston	Bill To Company	Plains All American Pipeline, LP	C	
Send Report To	Achanna Copeland	Invoice Attn	Karolanne Hudgens	D	
Address	11451 Katy Freeway Suite 400	Address	c/o ENV-00 Accounts Payable P.O. Box 4648	E F	
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77210-4648	G	
Phone		Phone	(713) 646-4610	H	
Fax		Fax	(713) 646-4199	I	
e-Mail Address	Achanna.Copeland@ghd.com	e-Mail Address	Karolanne.hudgens@plains.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	12604539-MW-2-20241118	11-18-24	10:00	GW	Ice	3	X										
2	12604539-MW-3-20241118	11-18-24	10:40	GW	Ice	3	X										
3	12604539-MW-4-20241118	11-18-24	13:45	GW	Ice	3	X										
4	12604539-MW-5-20241118	11-18-24	11:04	GW	Ice	3	X										
5	12604539-MW-13-20241118	11-18-24	11:44	GW	Ice	3	X										
6	12604539-MW-14-20241118	11-18-24	12:40	GW	Ice	3	X										
7	12604539-MW-1-20241118	11-18-24	11:27	GW	Ice	3	X										
8	12604539-MW-6-20241118	11-18-24	11:10	GW	Ice	3	X										
9	12604539-MW-8-20241119	11-19-24	08:15	GW	Ice	~~3~~ 5 JF	X	X									
10	12604539-MW-9-20241118	11-18-24	12:08	GW	Ice	3	X										

Sampler(s) Please Print & Sign: Jairo Flores

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
	11-19-24	14:00	
Relinquished by:	Date:	Time:	Received by (Laboratory):
	11/20/24	0925	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: 12604539 Chevron Grayburg 6-Inch Sec. 6

Cooler ID	Cooler Temp.
Blue	2.7 °C

QC Package: (Check One Box Below)

[X] Level II Std QC
[ ] Level II Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

1174

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 327516

GHDHouston

Chevron Grayburg 6-Inch Sec. 6

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	SRS Chevron Grayburg 6-Inch Hi	Project Name	Chevron Grayburg 6-Inch Sec. 6	A	8260_LL_W (8260 BTEX)
Work Order		Project Number	SRS Chevron Grayburg 6-Inch Histo	B	8270_LOW_W (8270 PAHs (17))
Company Name	GHDHouston	Bill To Company	Plains All American Pipeline, LP	C	
Send Report To	Adrianna Copeland	Invoice Attn	Kerolanne Hudgens	D	
Address	11451 Katy Freeway Suite 400	Address	c/o ENV-00, Accounts Payable P.O. Box 4648	E	
				F	
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77210-4648	G	
Phone		Phone	(713) 646-4610	H	
Fax		Fax	(713) 646-4199	I	
e-Mail Address	Adrianna.Copeland@ghd.com	e-Mail Address	Kerolanne.Hudgens@plains.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	12604539-MW-10-20241118	11-18-24	13:59	GW	Ice	3	X										
2	12604539-MW-11-20241119	11-19-24	10:53	GW	Ice	3	X										
3	12604539-MW-12-20241119	11-19-24	09:42	GW	Ice	3	X										
4	12604539-DUP-01-20241119	11-19-24	—	GW	Ice	3	X										
5	12604539-DUP-02-20241119	11-19-24	—	GW	Ice	3	X										
6	Trip Blank	—	—	—	Ice	2	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Jairo Flores

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hr

Results Due Date:

Relinquished by:	Date: 11-19-24	Time: 14:00	Received by:	Notes: 12604539- Chevron Grayburg 6-Inch Sec. 6		
Relinquished by:	Date: 11/20/24	Time: 0925	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Blue	2.7	[ ] Level II Std QC [ ] TRRP Checklist [ ] Level II Std QC/Raw Data [ ] TRRP Level III [ ] Level IV SW846/CLP [ ] Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

1234

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

RIGHT SOLUTIONS | RIGHT PARTNER

Appendix C

LNAPL Transmissivity Technical Memorandum (May 2024)

Technical Memorandum

July 26, 2024

To	Karolanne Hudgens	**Contact No.**	575.200.5517
Copy to		**Email**	Karolanne.Hudgens@plains.com
From	Matt Rousseau/Mailyng Aviles	**Project No.**	12604539
Project Name	Chevron Grayburg 6-Inch Sec. 6 (Historical)		
Subject	LNAPL Transmissivity Testing Chevron Grayburg Site		

1. Introduction

This memorandum presents the results of an evaluation of light non-aqueous phase liquid (LNAPL) transmissivity (T_n) at the subject site. The evaluation of T_n provides a standardized science-based way to quantify the potential mobility and recoverability of LNAPL at a given site. Results can be compared against widely accepted de minimis criteria to assess whether LNAPL may be considered to be sufficiently mobile such that hydraulic recovery may be feasible and/or provide some technical benefit in terms of mitigating migration potential via a tangible reduction in the amount of LNAPL in the pore space (i.e., reduction in 'LNAPL saturation' levels). Where T_n is found to be of de minimis magnitude, LNAPL is considered to be largely present at residual levels and hydraulically immobile/unrecoverable. Where this is the case, LNAPL mass recovery efforts will not provide a meaningful reduction in LNAPL saturation and, therefore, will provide no technical benefit (since the LNAPL is already largely immobile). Where LNAPL recovery is being performed, low or de minimis T_n is commonly used as a primary metric to demonstrate when LNAPL has been recovered to the maximum extent practicable.

2. Methodology

The testing was performed pursuant to the methodology contained in ASTM International (ASTM) Standard E2856-13 *Standard Guide for Estimation of LNAPL Transmissivity* (May 2013) using the baildown technique at a select well with recent static/equilibrium in-well LNAPL thickness of at least 0.5 feet. Well MW-7 was selected for transmissivity testing as it meets this minimum in-well LNAPL thickness requirement.

The LNAPL baildown test involved the rapid removal of LNAPL from each well using a peristaltic pump. Care was taken to minimize the removal or drawdown of groundwater during this effort. Following the removal of the LNAPL, each well was monitored for LNAPL recharge using an oil-water interface probe. The LNAPL monitoring continued until the observed in-well LNAPL recharge (or lack thereof) provided sufficient information to estimate T_n. The LNAPL transmissivity was then estimated based on the observed LNAPL recharge rates and/or LNAPL drawdown recovery (depending on the analytical solution selected) using the American Petroleum Institute (API) *LNAPL Transmissivity Workbook: Calculation of LNAPL Transmissivity from Baildown*

This Technical Memorandum is provided as an interim output under our agreement with Chevron Grayburg 6-Inch Sec. 6 (Historical). It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Test Data (September 2012). The API workbook uses the field data from a baildown test to estimate LNAPL transmissivities using three different solutions for unconfined conditions: Bouwer & Rice; Cooper & Jacob; and Cooper-Bredehoeft-Papadopulos. The detailed field methodology and data treatment techniques associated with LNAPL transmissivity estimations are detailed in ASTM E2856-13. Results were then compared against de minimis recoverability guideline values (Tn ≤ 0.8 ft^2/day) that represent a limit to the practicability and/or benefit of LNAPL recovery recommended by the Interstate Technology & Regulatory Council (ITRC) in their Publication No. LNAPL-3 *LNAPL Site Management: LCSM Evolution, Decision Process, and Remedial Technologies* (2018).

3. Results

LNAPL baildown testing at MW-7 was conducted on May 21, 2024, and the resulting mean T_n estimate using the unconfined solution was 0.05 ft^2/day. Results for each of the solutions along with the mean result are shown in the table below. This mean result is an order of magnitude lower than the adopted a de minimis LNAPL recoverability criterion of $T_n \leq 0.8$ ft^2/day. The relevant parts of API workbook input and output screens are provided as Attachment A.

	Unconfined solution					Confined solution (ft^2/day)
Location ID	**Bower and Rice (1976)**	**Cooper and Jacob (1946)**	**Cooper, Beredehoeft and Papadopulos (1967)**	**Mean LNAPL Transmissivity (ft^2/day)**	**Standard Deviation (ft^2/day)**	
MW-7	0.04	0.06	0.06	**0.05**	0.01	____

4. Discussion

The evaluation of T_n represents a science-based metric that can be used to assess the need for and potential benefit of LNAPL mass recovery efforts, and the T_n metric is often applied to determine a practical end-point to LNAPL mass recovery (i.e., de minimis LNAPL transmissivity equates to LNAPL recovered to the maximum extent practicable). Where T_n results are of comparable magnitude or less than the ITRC de minimis criterion discussed above, LNAPL can be assumed to predominantly exist at residual saturation levels that are effectively immobile and unrecoverable.

Results from MW-7 indicate that the magnitude of the recoverability of the LNAPL (or T_n) is consistent with what ITRC recommends as a de minimis level. As such, these results support that the LNAPL remaining at the site is predominantly immobile residual and there would be no practical benefit expected from LNAPL recovery efforts.

Matt Rousseau
Technical Director

Mailyng Aviles
Geochemist

MR/mss/1

Encl.: Attachment A – API Transmissivity

This Technical Memorandum is provided as an interim output under our agreement with Chevron Grayburg 6-Inch Sec. 6 (Historical). It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Released to Imaging: 10/8/2025 2:00:48 PM

Attachment A

API Transmissivity

Released to Imaging: 10/8/2025 2:00:48 PM

Received by OCD: 8/25/2025 11:27:53 AM

Well Designation:	MW-7	
Date:	21-May-24	

Ground Surface Elev (ft msl)	0.0	Enter These Data	**Drawdown Adjustment (ft)**
Top of Casing Elev (ft msl)	0.0		
Well Casing Radius, r_c (ft):	0.167	r_{e1}	0
Well Radius, r_w (ft):	0.333		
LNAPL Specific Yield, S_y:	0.175		
LNAPL Density Ratio, ρ_r:	0.800		
Top of Screen (ft bgs):	106.0		
Bottom of Screen (ft bgs):	140.0		
LNAPL Baildown Vol. (gal.):	2.5		
Effective Radius, r_{e3} (ft):	0.206	Calculated Parameters	
Effective Radius, r_{e2} (ft):	0.156		
Initial Casing LNAPL Vol. (gal.):	2.20		
Initial Filter LNAPL Vol. (gal.):	1.15		

Enter Data Here

	Time (min)	DTP (ft btoc)	DTW (ft btoc)	DTP (ft bgs)	DTW (ft bgs)	Water Table Depth (ft)	LNAPL Drawdown s_n (ft)	Average Time (min)	LNAPL Discharge Q_n (ft^3/d)	s_n (ft)	b_n (ft)	r_e (ft)	DTP (ft bgs)	DTW (ft bgs)	LNAPL Volume (gallons)	Ave. r_e (ft)
Initial Fluid Levels:	0	124.26	127.62	124.26	127.62	124.93					3.36					
Enter Test Data:	0.0	124.94	124.96	124.94	124.96	124.94	0.68				0.02				0	0.206
	1.0	124.84	124.90	124.84	124.90	124.85	0.58	0.5	7.753	0.63	0.06	0.206	124.89	124.93	0.04	0
	2.0	124.78	124.86	124.78	124.86	124.80	0.52	1.5	3.838	0.55	0.08	0.206	124.81	124.88	0.06	0.205
	3.0	124.77	124.85	124.77	124.85	124.79	0.51	2.5	0.000	0.51	0.08	0.206	124.78	124.86	0.06	0.411
	4.0	124.75	124.84	124.75	124.84	124.77	0.49	3.5	1.919	0.50	0.09	0.206	124.76	124.85	0.07	0.617
	5.0	124.75	124.84	124.75	124.84	124.77	0.49	4.5	0.000	0.49	0.09	0.206	124.75	124.84	0.07	0.823
	6.0	124.75	124.85	124.75	124.85	124.77	0.49	5.5	1.919	0.49	0.10	0.206	124.75	124.85	0.08	1.029
	7.0	124.74	124.85	124.74	124.85	124.76	0.48	6.5	1.919	0.48	0.11	0.206	124.75	124.85	0.09	1.235
	8.0	124.74	124.85	124.74	124.85	124.76	0.48	7.5	0.000	0.48	0.11	0.206	124.74	124.85	0.09	1.441
	9.0	124.74	124.85	124.74	124.85	124.76	0.48	8.5	0.000	0.48	0.11	0.206	124.74	124.85	0.09	1.647
	14.0	124.73	124.85	124.73	124.85	124.75	0.47	11.5	0.384	0.47	0.12	0.206	124.74	124.85	0.10	2.264
	19.0	124.73	124.85	124.73	124.85	124.75	0.47	16.5	0.000	0.47	0.12	0.206	124.73	124.85	0.10	3.294
	24.0	124.73	124.85	124.73	124.85	124.75	0.47	21.5	0.000	0.47	0.12	0.206	124.73	124.85	0.10	4.324
	29.0	124.72	124.84	124.72	124.84	124.74	0.46	26.5	0.000	0.46	0.12	0.206	124.73	124.85	0.10	5.354
	34.0	124.72	124.84	124.72	124.84	124.74	0.46	31.5	0.000	0.46	0.12	0.206	124.72	124.84	0.10	6.383
	39.0	124.72	124.85	124.72	124.85	124.75	0.46	36.5	0.384	0.46	0.13	0.206	124.72	124.85	0.11	7.413
	54.0	124.71	124.84	124.71	124.84	124.74	0.45	46.5	0.000	0.45	0.13	0.206	124.72	124.85	0.11	9.473
	59.0	124.71	124.84	124.71	124.84	124.74	0.45	56.5	0.000	0.45	0.13	0.206	124.71	124.84	0.11	11.532
	64.0	124.7	124.84	124.70	124.84	124.73	0.44	61.5	0.384	0.44	0.14	0.206	124.71	124.84	0.12	12.562
	74.0	124.7	124.84	124.70	124.84	124.73	0.44	69.0	0.000	0.44	0.14	0.206	124.70	124.84	0.12	14.106
	134.0	124.68	124.84	124.68	124.84	124.71	0.42	104.0	0.064	0.43	0.16	0.206	124.69	124.84	0.14	21.314
	194.0	124.66	124.82	124.66	124.82	124.69	0.40	164.0	0.000	0.41	0.16	0.206	124.67	124.83	0.14	33.671
	254.0	124.64	124.80	124.64	124.80	124.67	0.38	224.0	0.000	0.39	0.16	0.206	124.65	124.81	0.14	46.028
	344.00	124.62	124.78	124.62	124.78	124.65	0.36	299.0	0.000	0.37	0.16	0.206	124.63	124.79	0.14	61.474
	374.00	124.6	124.77	124.60	124.77	124.63	0.34	359.0	0.064	0.35	0.17	0.206	124.61	124.78	0.15	73.831
	464.00	124.6	124.78	124.60	124.78	124.64	0.34	419.0	0.021	0.34	0.18	0.206	124.60	124.78	0.16	86.188
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000

0.089

Figure 1

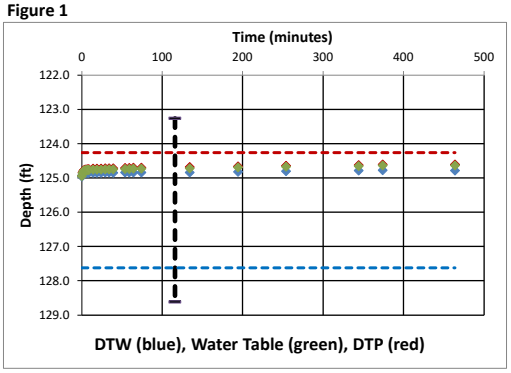
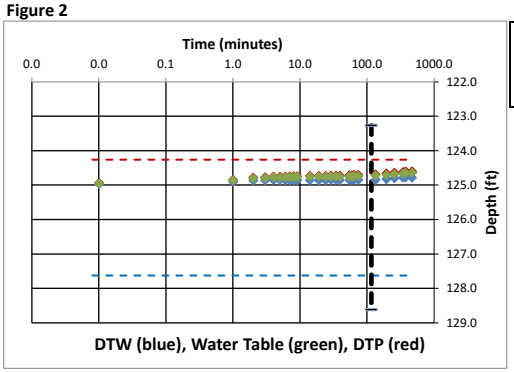


Figure 2



0.0	124.26
464	124.26
0.0	127.62
464	127.62

116.0	123.26	123.3
116.0	128.6	128.6

Figure 3

Q_n (ft^3/d)	s_n (ft)
0.01	0.55
0.01	0.3

Drawdown Adjust.	
Δs_n (ft)	0

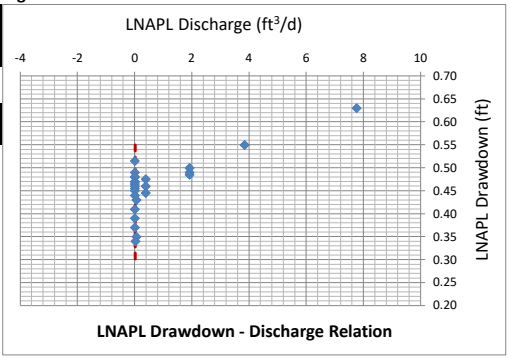
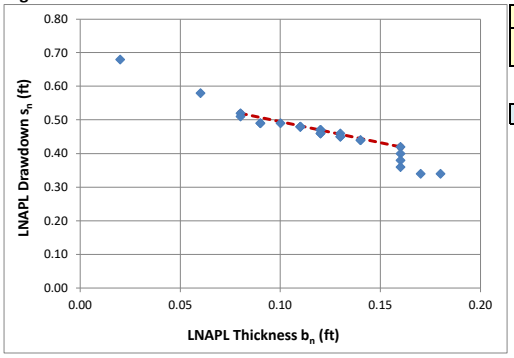


Figure 4



b_n	s_n
0.08	0.52
0.16	0.42

J-ratio	-1.250

Figure 5

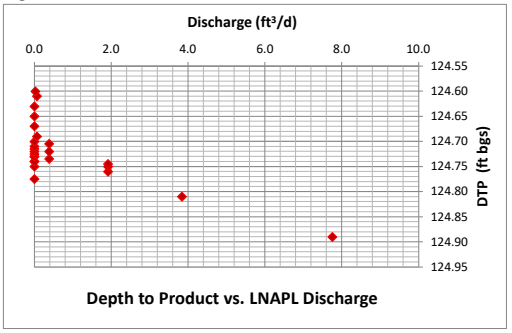


Figure 6

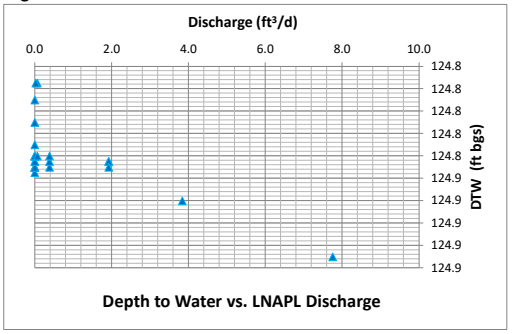


Figure 7

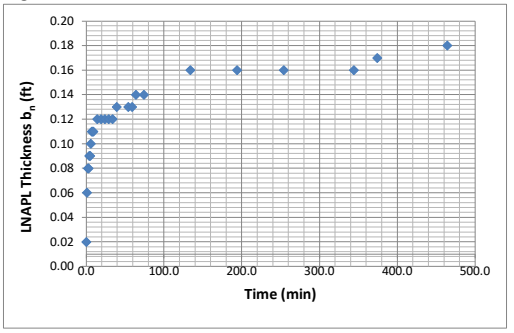


Figure 8

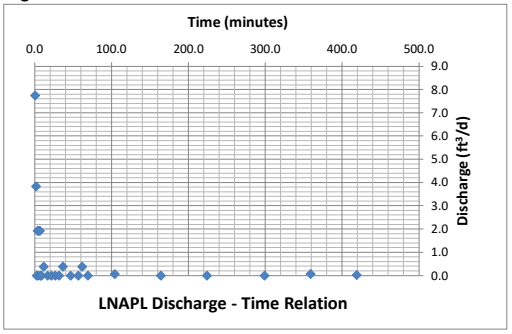


Figure 9

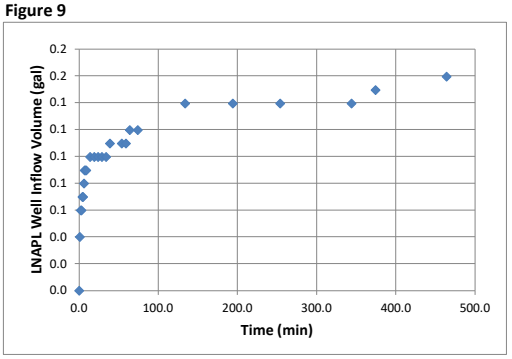
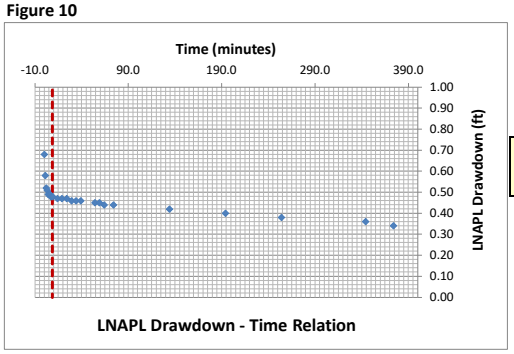


Figure 10



t (min)	s_n (ft)
8.5	5.5
8.5	0

Generalized Bouwer and Rice (1976)

Well Designation:	MW-7
Date:	21-May-24

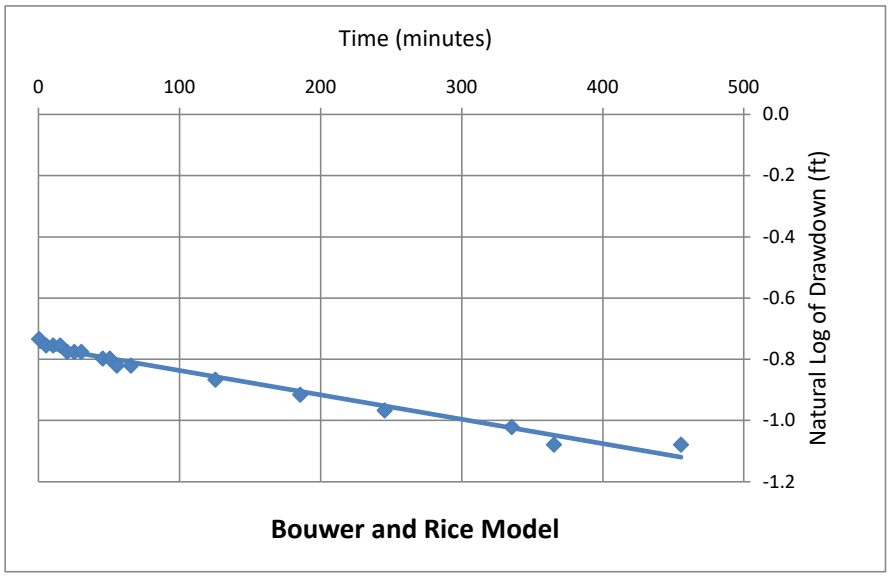
$$T_n = \frac{r_e^{\,2} \ln(R/r_e) \ln(s_n(t_1)/s_n(t))}{2(-J)(t - t_1)}$$

Enter early time cut-off for least-squares model fit

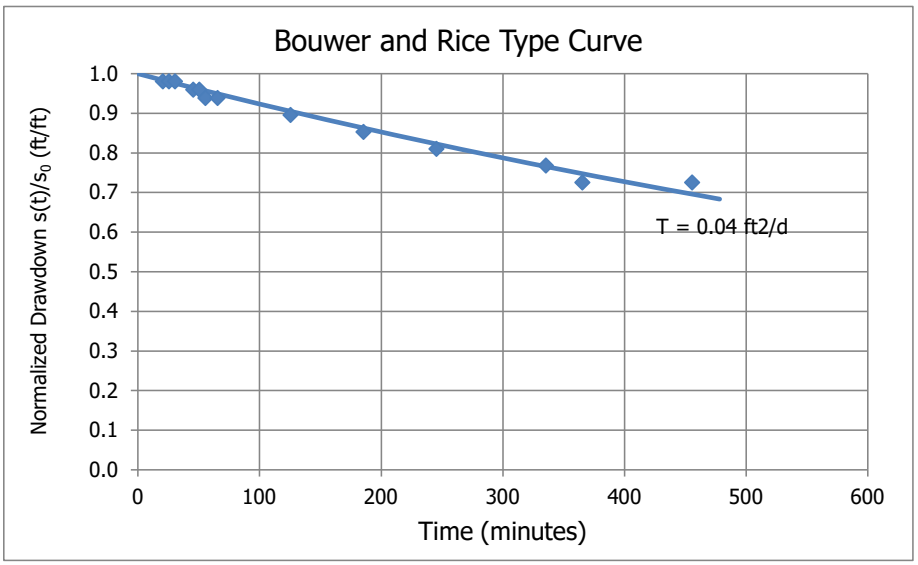
$Time_{cut}$	8.5	<- Enter or change value here

Model Results: T_n (ft^2/d) = 0.04 +/- 0.00 ft^2/d

L_e/r_e	16.3
C	1.44
R/r_e	7.95
J-Ratio	-1.250
Coef. Of Variation	0.04



C coefficient calculated from Eq. 6.5(c) of Butler, The Design, Performance, and Analysis of Slug Tests, CRC Press, 2000.



Cooper and Jacob (1946)

Well Designation:	MW-7
Date:	21-May-24

$$V_n(t_i) = \sum_j^i \frac{4\pi T_n s_j}{\ln\left(\frac{2.25 T_n t_j}{r_e^2 S_n}\right)} \Delta t_j$$

Enter early time cut-off for least-squares model fit

$Time_{cut}$ (min):	8.5	<- Enter or change values here
Time Adjustment (min):	5	

Trial S_n: d <-- Enter d for default or enter S_n value

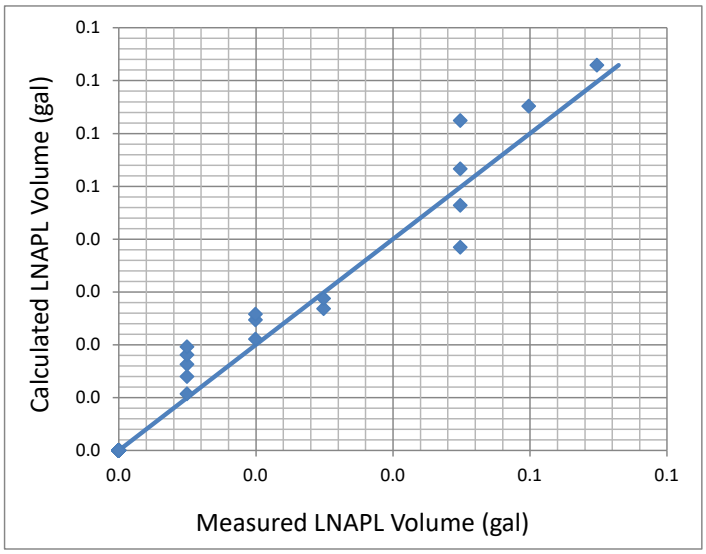
Root-Mean-Square Error: 0.025 <-- Minimize this using "Solver"

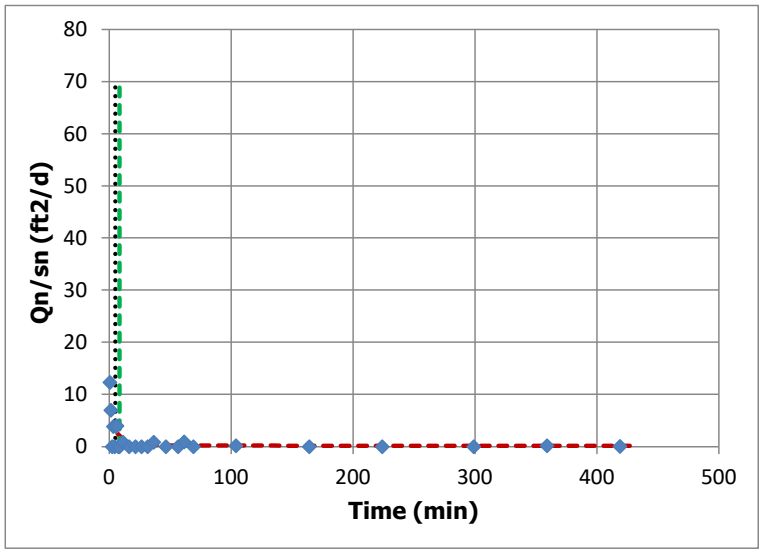
0.003 <-- Working S_n

Trial T_n (ft^2/d): 0.017 <-- By changing T_n through "Solver"

Add constraint T_n > 0.00001

Model Result: T_n (ft^2/d) = **0.060**





Height
70

Cooper, Bredehoeft and Papadopulos (1967)

Well Designation:	MW-7
Date:	21-May-24

Enter early time cut-off for least-squares model fit

$Time_{cut}$ (min):	8.5	<- Enter or change values here
Initial Drawdown s_n (ft):	0.48	

Trial S_n: d <-- Enter d for default

Root-Mean-Square Error: 0.036 <-- Minimize this using "Solver"

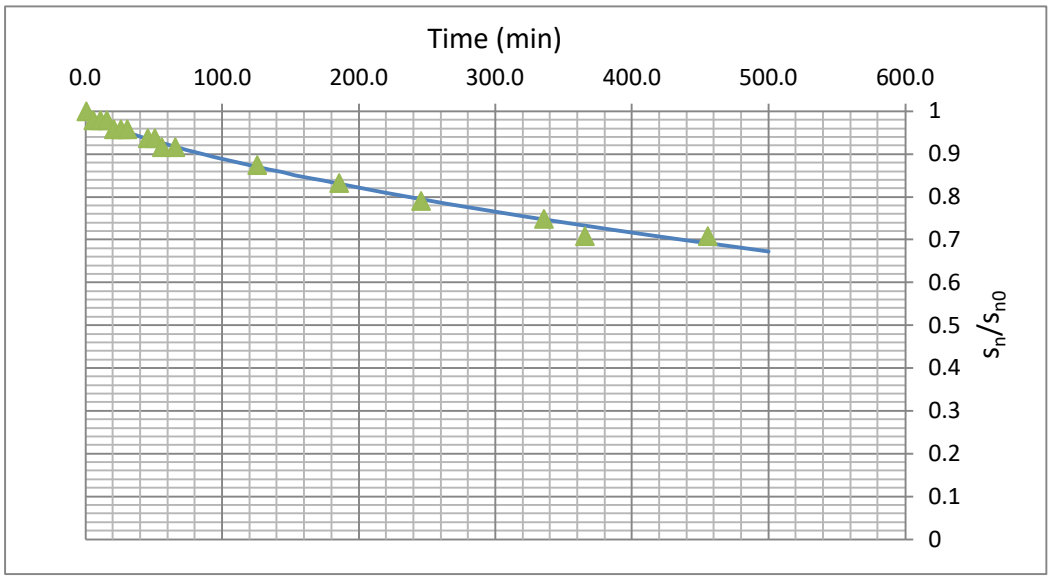
Trial T_n (ft^2/d): 0.046 <-- By changing T_n through "Solver"

0.005 <-- Working S_n

Add constraint Tn > 0.00001

T_{min}	1
T_{max}	500

Model Result: T_n (ft^2/d) = **0.06**



J-Ratio
-1.250

Appendix D

LNAPL Transmissivity Memorandum (November 2024)

Technical Memorandum – DRAFT

December 18, 2024

To	Adrianna Copeland	**Contact No.**	713.731.6634
Copy to	[Enter text]	**Email**	adrianna.copeland@ghd.com
From	Joann Dyson	**Project No.**	12604539
Project Name	Chevron Grayburg 6-Inch Sec. 6 (Historical)		
Subject	LNAPL Transmissivity Testing Chevron Grayburg Site		

1. Introduction

This memorandum presents the results of an evaluation of light non-aqueous phase liquid (LNAPL) transmissivity (T_n) at the subject site. The evaluation of LNAPL T_n provides a standardized science-based way to quantify the potential mobility and recoverability of LNAPL at a given site. Results can be compared against widely accepted de minimis criteria to assess whether LNAPL may be considered to be sufficiently mobile such that hydraulic recovery may be feasible and/or provide some technical benefit in terms of mitigating migration potential via a tangible reduction in the amount of LNAPL in the pore space (i.e., reduction in 'LNAPL saturation' levels). Where T_n is found to be of de minimis magnitude, LNAPL is considered to be largely present at residual levels and hydraulically immobile/unrecoverable. Where this is the case, LNAPL mass recovery efforts will not provide a meaningful reduction in LNAPL saturation and, therefore, will provide no technical benefit (since the LNAPL is already largely immobile). Where LNAPL recovery is being performed or considered, low or de minimis T_n is commonly used as a primary metric to demonstrate when LNAPL has been recovered to the maximum extent practicable.

2. Methodology

The testing was performed pursuant to the methodology contained in ASTM International (ASTM) Standard E2856-13 *Standard Guide for Estimation of LNAPL Transmissivity* (May 2013) using the baildown technique at a select well with recent static/equilibrium in-well LNAPL thickness of at least 0.5 feet. Well MW-7 was selected for transmissivity testing as it meets this minimum in-well LNAPL thickness requirement.

The LNAPL baildown test involved the rapid removal of LNAPL from the test well using a bailer. Care was taken to minimize the removal or drawdown of groundwater during this effort. Following the removal of the LNAPL, the well was monitored for LNAPL recharge using an oil-water interface probe. The LNAPL monitoring continued until the observed in-well LNAPL recharge provided sufficient information to estimate T_n. The LNAPL transmissivity was then estimated based on the observed LNAPL recharge rates and/or LNAPL drawdown

This Technical Memorandum is provided as an interim output under our agreement with Chevron. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

recovery (depending on the analytical solution selected) using the American Petroleum Institute (API) *LNAPL Transmissivity Workbook: Calculation of LNAPL Transmissivity from Baildown Test Data* (September 2012). The API workbook uses the field data from a baildown test to estimate LNAPL transmissivities using three different solutions for unconfined conditions: Bouwer & Rice; Cooper & Jacob; and Cooper-Bredehoeft-Papadopulos. The detailed field methodology and data treatment techniques associated with LNAPL transmissivity estimations are detailed in ASTM E2856-13. Results were then compared against de minimis recoverability guideline values ($T_n \leq 0.8$ ft^2/day) that represent a limit to the practicability and/or benefit of LNAPL recovery recommended by the Interstate Technology & Regulatory Council (ITRC) in their Publication No. LNAPL-3 *LNAPL Site Management: LCSM Evolution, Decision Process, and Remedial Technologies* (2018).

3. Results

LNAPL baildown testing at MW-7 was conducted on November 19, 2024, and the resulting mean T_n estimate using the unconfined solution was 0.02 ft^2/day. Results for each of the solutions along with the mean result are shown in the table below. This mean result is an order of magnitude lower than the adopted de minimis LNAPL recoverability criterion of $T_n \leq 0.8$ ft^2/day. The relevant parts of the API workbook input and output screens are provided as Attachment 1.

These results confirm results from the May 2024 LNAPL transmissivity test for well MW-7, which are also included in the table below.

Location ID	Date	Unconfined solutions (ft^2/day)					Confined solution (ft^2/day)
		Bower and Rice (1976)	Cooper and Jacob (1946)	Cooper, Bredehoeft and Papadopulos (1967)	Mean LNAPL Transmissivity	Standard Deviation	
MW-7	May 2024	0.04	0.06	0.06	**0.05**	0.01	____
MW-7	Nov 2024	0.02	0.03	0.02	**0.02**	0.00	____

4. Discussion

The evaluation of T_n represents a science-based metric that can be used to assess the need for and potential benefit of LNAPL mass recovery efforts, and the T_n metric is considered best practice to determine when a practical end-point to LNAPL mass recovery has been reached (i.e., de minimis LNAPL transmissivity equates to LNAPL recovered to the maximum extent practicable). Where T_n results are of comparable magnitude or less than the ITRC de minimis criterion discussed above, LNAPL can be assumed to predominantly exist at residual saturation levels that are effectively immobile and unrecoverable.

Results from MW-7 indicate that the magnitude of the recoverability of the LNAPL (or T_n) is consistent with what ITRC recommends as a de minimis level. As such, these results support that the LNAPL remaining at the site is predominantly immobile residual and the magnitude of LNAPL recoverability is already less than what would be considered a practical endpoint to LNAPL recovery (i.e., recovery to the maximum extent practical).

This Technical Memorandum is provided as an interim output under our agreement with Chevron. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

REVIEW

Attachments

This Technical Memorandum is provided as an interim output under our agreement with Chevron. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Attachment 1

MW-7 API Workbook

This Technical Memorandum is provided as an interim output under our agreement with Chevron. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Well Designation:	MW-7	12604539 Chevron Grayburg
Date:	19-Nov-24	2nd Tn test (1st in June 2024)

Ground Surface Elev (ft msl)	0.0	Enter These Data
Top of Casing Elev (ft msl)	3.0	
Well Casing Radius, r_c (ft):	0.083	r_{e1}
Well Radius, r_w (ft):	0.333	
LNAPL Specific Yield, S_y:	0.175	
LNAPL Density Ratio, ρ_r:	0.800	
Top of Screen (ft bgs):	106.0	
Bottom of Screen (ft bgs):	140.0	
LNAPL Baildown Vol. (gal.):	3.0	
Effective Radius, r_{e3} (ft):	0.159	Calculated Parameters
Effective Radius, r_{e2} (ft):	0.103	
Initial Casing LNAPL Vol. (gal.):	0.82	
Initial Filter LNAPL Vol. (gal.):	2.15	

Drawdown Adjustment (ft)
0

Enter Data Here

	Time (min)	DTP (ft btoc)	DTW (ft btoc)	DTP (ft bgs)	DTW (ft bgs)	Water Table Depth (ft)	LNAPL Drawdown s_n (ft)	Average Time (min)	LNAPL Discharge Q_n (ft^3/d)	s_n (ft)	b_n (ft)	r_e (ft)	DTP (ft bgs)	DTW (ft bgs)	LNAPL Volume (gallons)	Ave. r_e (ft)
Initial Fluid Levels:	0	124.28	129.3	121.28	126.3	122.28					5.02					
Enter Test Data:	0.1	125.47	125.54	122.47	122.54	122.48	1.19				0.07				0	0.159
	1.0	125.17	125.22	122.17	122.22	122.18	0.89	0.6	-2.531	1.04	0.05	0.159	122.32	122.38	-0.01	0
	2.0	125.12	125.28	122.12	122.28	122.15	0.84	1.5	12.527	0.87	0.16	0.159	122.15	122.25	0.05	0.151
	3.0	125.06	125.25	122.06	122.25	122.10	0.78	2.5	3.416	0.81	0.19	0.159	122.09	122.27	0.07	0.309
	4.0	125.05	125.24	122.05	122.24	122.09	0.77	3.5	0.000	0.77	0.19	0.159	122.06	122.25	0.07	0.468
	5.0	125.03	125.23	122.03	122.23	122.07	0.75	4.5	1.139	0.76	0.20	0.159	122.04	122.24	0.08	0.627
	6.0	125.02	125.22	122.02	122.22	122.06	0.74	5.5	0.000	0.74	0.20	0.159	122.03	122.23	0.08	0.785
	7.0	125.02	125.22	122.02	122.22	122.06	0.74	6.5	0.000	0.74	0.20	0.159	122.02	122.22	0.08	0.944
	8.0	125.01	125.22	122.01	122.22	122.05	0.73	7.5	1.139	0.73	0.21	0.159	122.02	122.22	0.08	1.103
	9.0	125.01	125.22	122.01	122.22	122.05	0.73	8.5	0.000	0.73	0.21	0.159	122.01	122.22	0.08	1.261
	10.0	125.00	125.22	122.00	122.22	122.04	0.72	9.5	1.139	0.73	0.22	0.159	122.01	122.22	0.09	1.420
	15.0	125.00	125.24	122.00	122.24	122.05	0.72	12.5	0.456	0.72	0.24	0.159	122.00	122.23	0.10	1.896
	20.0	125	125.26	122.00	122.26	122.05	0.72	17.5	0.456	0.72	0.26	0.159	122.00	122.25	0.11	2.689
	25.0	125	125.27	122.00	122.27	122.05	0.72	22.5	0.228	0.72	0.27	0.159	122.00	122.27	0.12	3.483
	30.0	125	125.27	122.00	122.27	122.05	0.72	27.5	0.000	0.72	0.27	0.159	122.00	122.27	0.12	4.276
	35.0	125	125.30	122.00	122.30	122.06	0.72	32.5	0.683	0.72	0.30	0.159	122.00	122.29	0.14	5.069
	40.0	125	125.29	122.00	122.29	122.06	0.72	37.5	-0.228	0.72	0.29	0.159	122.00	122.30	0.13	5.863
	45.0	125	125.29	122.00	122.29	122.06	0.72	42.5	0.000	0.72	0.29	0.159	122.00	122.29	0.13	6.656
	50.0	125	125.30	122.00	122.30	122.06	0.72	47.5	0.228	0.72	0.30	0.159	122.00	122.30	0.14	7.449
	55.0	124.99	125.30	121.99	122.30	122.05	0.71	52.5	0.228	0.71	0.31	0.159	122.00	122.30	0.14	8.242
	60.0	124.99	125.30	121.99	122.30	122.05	0.71	57.5	0.000	0.71	0.31	0.159	121.99	122.30	0.14	9.036
	65.0	124.98	125.30	121.98	122.30	122.04	0.70	62.5	0.228	0.70	0.32	0.159	121.99	122.30	0.15	9.829
	70.0	124.98	125.31	121.98	122.31	122.05	0.70	67.5	0.228	0.70	0.33	0.159	121.98	122.31	0.15	10.622
	100.00	124.98	125.31	121.98	122.31	122.05	0.70	85.0	0.000	0.70	0.33	0.159	121.98	122.31	0.15	13.399
	130.00	124.97	125.32	121.97	122.32	122.04	0.69	115.0	0.076	0.70	0.35	0.159	121.98	122.32	0.17	18.159
	160.00	124.97	125.33	121.97	122.33	122.04	0.69	145.0	0.038	0.69	0.36	0.159	121.97	122.33	0.17	22.919
	190.00	124.95	125.32	121.95	122.32	122.02	0.67	175.0	0.038	0.68	0.37	0.159	121.96	122.33	0.18	27.679
	220.00	124.95	125.33	121.95	122.33	122.03	0.67	205.0	0.038	0.67	0.38	0.159	121.95	122.33	0.18	32.438
	250.00	124.94	125.33	121.94	122.33	122.02	0.66	235.0	0.038	0.66	0.39	0.159	121.95	122.33	0.19	37.198
	280.00	124.93	125.33	121.93	122.33	122.01	0.65	265.0	0.038	0.66	0.40	0.159	121.94	122.33	0.20	41.958
	310.00	124.92	125.32	121.92	122.32	122.00	0.64	295.0	0.000	0.65	0.40	0.159	121.93	122.33	0.20	46.718
	340.00	124.91	125.31	121.91	122.31	121.99	0.63	325.0	0.000	0.63	0.40	0.159	121.92	122.32	0.20	51.478
	370.00	124.91	125.32	121.91	122.32	121.99	0.63	355.0	0.038	0.63	0.41	0.159	121.91	122.32	0.20	56.238
	400.00	124.91	125.32	121.91	122.32	121.99	0.63	385.0	0.000	0.63	0.41	0.159	121.91	122.32	0.20	60.998
	430.00	124.92	125.33	121.92	122.33	122.00	0.64	415.0	0.000	0.63	0.41	0.159	121.92	122.33	0.20	65.757
	460.00	124.91	125.33	121.91	122.33	121.99	0.63	445.0	0.038	0.63	0.42	0.159	121.92	122.33	0.21	70.517
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000
				#N/A	#N/A	#N/A	#N/A	0.0	#N/A	#N/A	#N/A	0.000	#N/A	#N/A	#N/A	0.000

0.096

Figure 1

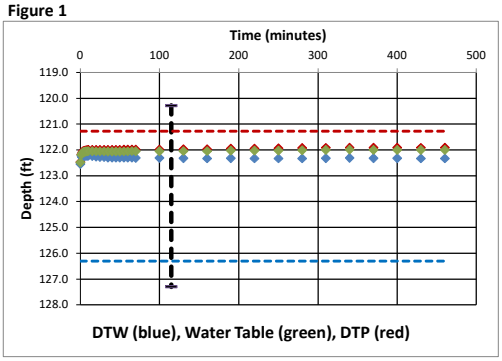
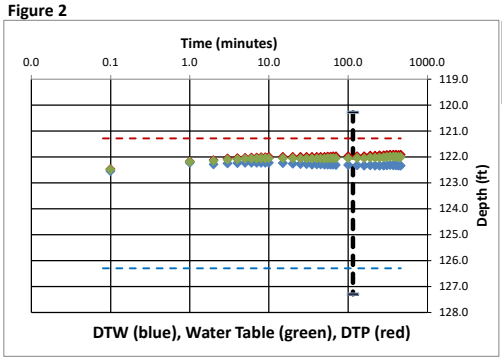


Figure 2



0.1	121.28
460	121.28
0.1	126.3
460	126.3

115.0	120.28	120.3
115.0	127.3	127.3

Figure 3

Q_n (ft³/d)	s_n (ft)
0	0
0.1	1

Drawdown Adjust.	
Δs_n (ft)	0

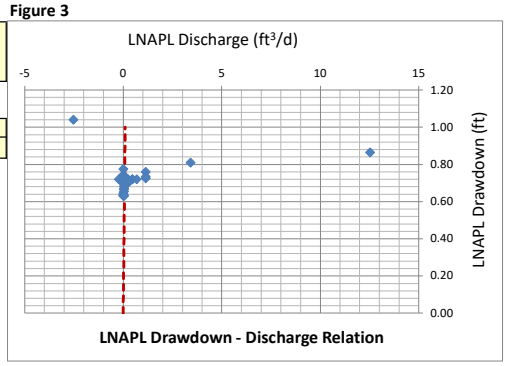
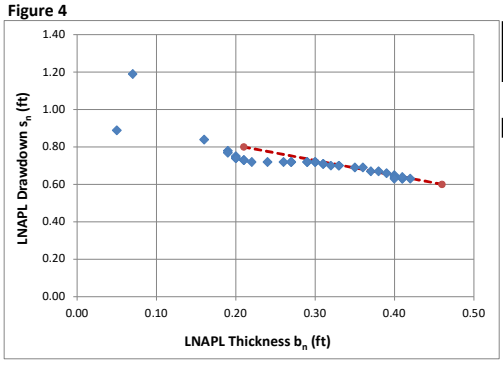


Figure 4



b_n	s_n
0.21	0.8
0.46	0.6

J-ratio	-0.800

Figure 5

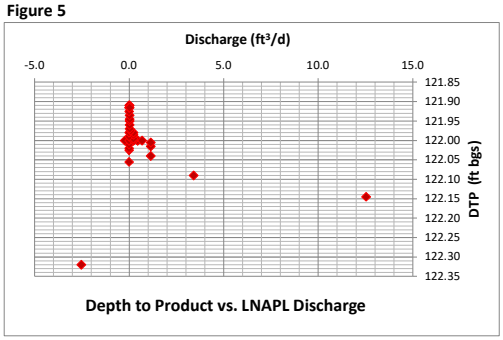


Figure 6

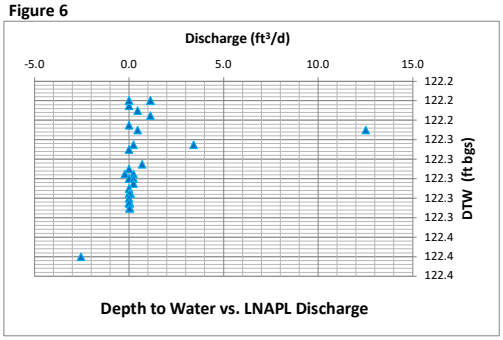


Figure 7

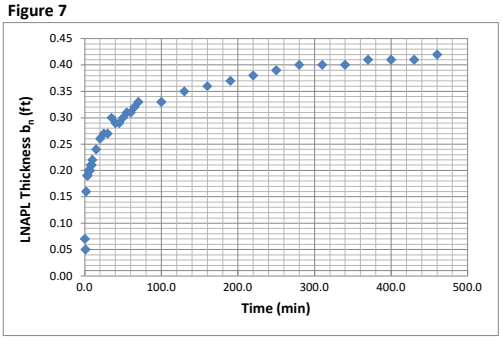


Figure 8

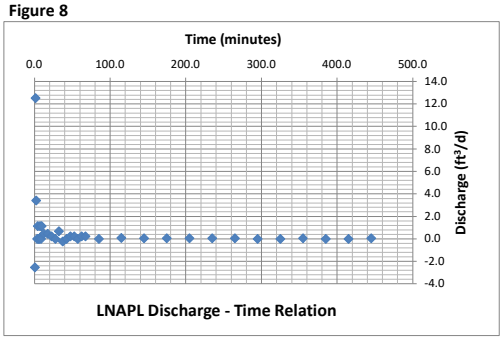


Figure 9

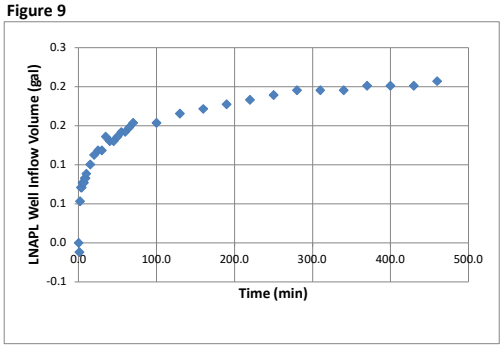
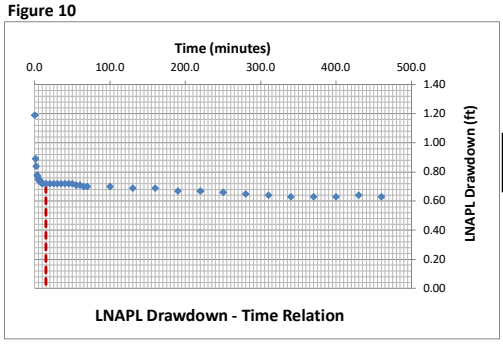


Figure 10



t (min)	s_n (ft)
15	0.7
15	0

Generalized Bouwer and Rice (1976)

Well Designation:	MW-7
Date:	19-Nov-24

$$T_n = \frac{r_e^{\,2} \ln(R/r_e) \ln(s_n(t_1)/s_n(t))}{2(-J)(t - t_1)}$$

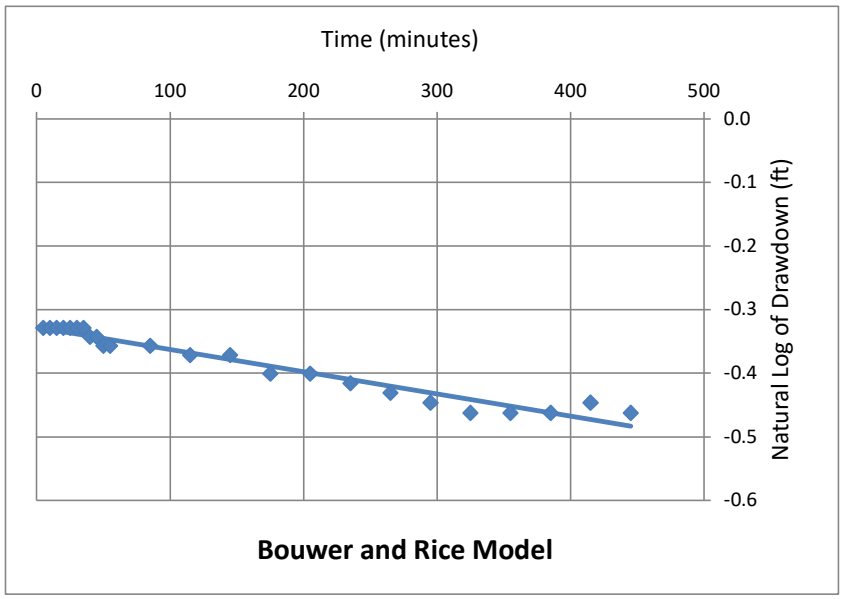
Enter early time cut-off for least-squares model fit

$Time_{cut}$	15	<- Enter or change value here

L_e/r_e
31.6
C
2.06
R/r_e
13.57

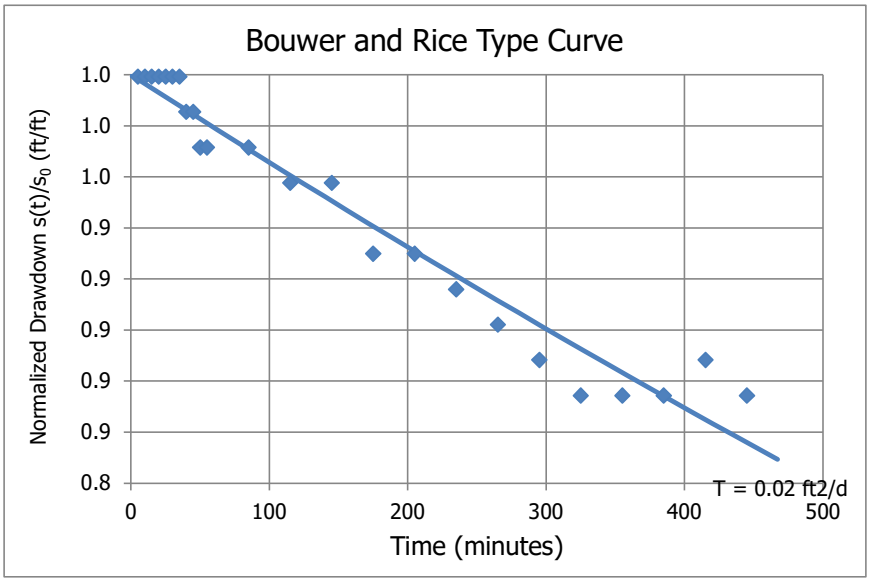
Model Results: T_n (ft^2/d) = 0.02 +/- 0.00 ft^2/d

J-Ratio
-0.800



Coef. Of Variation
0.05

C coefficient calculated from Eq. 6.5(c) of Butler, The Design, Performance, and Analysis of Slug Tests, CRC Press, 2000.



Cooper and Jacob (1946)

Well Designation:	MW-7
Date:	19-Nov-24

$$V_n(t_i) = \sum_j^i \frac{4\pi T_n s_j}{\ln\left(\frac{2.25 T_n t_j}{r_e^2 S_n}\right)} \Delta t_j$$

Enter early time cut-off for least-squares model fit

$Time_{cut}$ (min):	15	<- Enter or change values here
Time Adjustment (min):	10	

Trial S_n: d <-- Enter d for default or enter S_n value

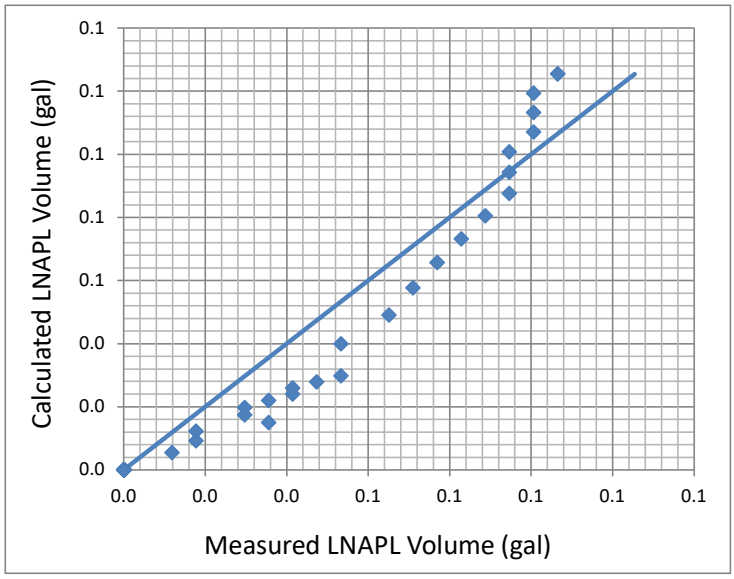
Root-Mean-Square Error: 0.066 <-- Minimize this using "Solver"

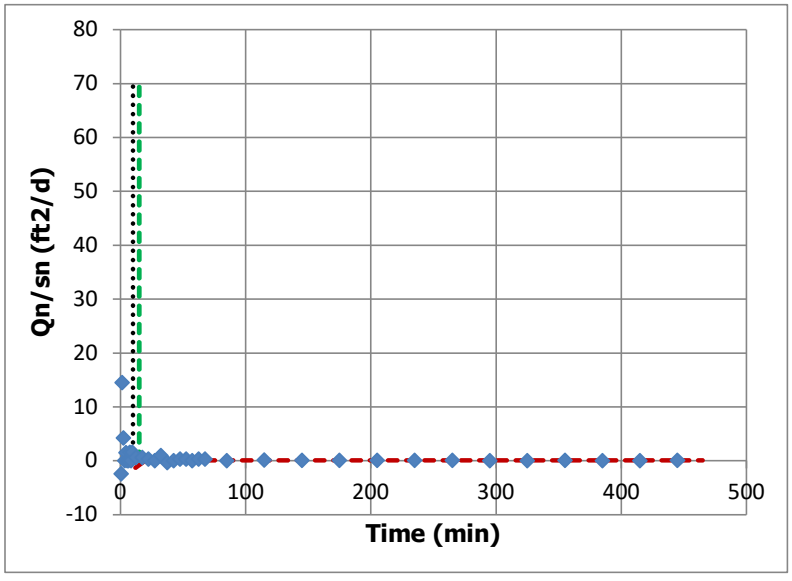
0.004 <-- Working S_n

Trial T_n (ft^2/d): 0.025 <-- By changing T_n through "Solver"

Add constraint T_n > 0.00001

Model Result: T_n (ft^2/d) = **0.025**





Height
70

Cooper, Bredehoeft and Papadopulos (1967)

Well Designation:	MW-7
Date:	19-Nov-24

Enter early time cut-off for least-squares model fit

$Time_{cut}$ (min):	15	<- Enter or change values here
Initial Drawdown s_n (ft):	0.73	

Trial S_n: d <-- Enter d for default

Root-Mean-Square Error: 0.042 <-- Minimize this using "Solver"

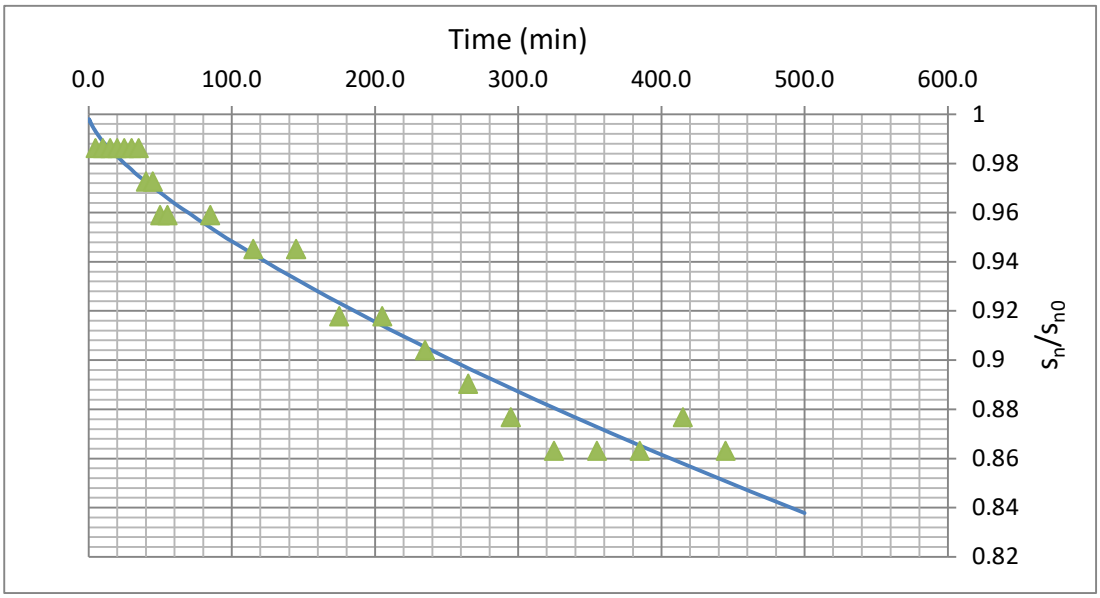
Trial T_n (ft^2/d): 0.017 <-- By changing T_n through "Solver"

0.003 <-- Working S_n

Add constraint Tn > 0.00001

T_{min}	0.2
T_{max}	500

Model Result: T_n (ft^2/d) = **0.02**



J-Ratio
-0.800

Appendix E

LNAPL Stability Memorandum

Technical Memorandum

December 20, 2024

To	Karolanne Hudgens	**Contact No.**	(575) 200-5517
Copy to	J.T. Murrey, Adrianna Copeland	**Email**	Karolanne.Hudgens@plains.com
From	Matt Rousseau	**Project No.**	12604539
Project Name	PAA-CAR-PERM-Chevron Grayburg 6-Inch Sec. 6 (Historical)		
Subject	Stability of Remaining Contaminants		

1. Introduction

Petroleum hydrocarbon contamination remains at the subject site in the form of both light non-aqueous phase liquid (LNAPL) and associated dissolved phase impacts. This memorandum is part of GHD's ongoing evaluation of the mobility and stability of the remaining contaminants in order to inform a more sustainable risk-based approach to site remedial/management strategy.

1.1 Purpose of this Memorandum

This memorandum provides an evaluation of the stability of LNAPL and associated dissolved plumes remaining at the site. The evaluation relies on multiple line of evidence including LNAPL transmissivity test results that quantify the mobility of the remaining LNAPL and statistical trend analysis (Mann-Kendall test) of the historical groundwater analytical results to provide a holistic assessment of contaminant stability.

1.2 Scope and limitations

This technical memorandum has been prepared by GHD for Plains. It is not prepared as, and is not represented to be, a deliverable suitable for reliance by any person for any purpose. It is not intended for circulation or incorporation into other documents. The matters discussed in this memorandum are limited to those specifically detailed in the memorandum and are subject to any limitations or assumptions specially set out.

Accessibility of documents

If this Technical Memorandum is required to be accessible in any other format this can be provided by GHD upon request and at an additional cost if necessary.

2. Dissolved Plume

A step-wise approach was taken to the assessment of plume stability as follows:

1. **Evaluation of dissolved petroleum hydrocarbon constituents that have consistently been detected**: these include benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX). While

This Technical Memorandum is provided as an interim output under our agreement with Plains. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

numerous other parameters have been analyzed for historically, they have either never or only sporadically been detected.

2. **Selection of wells for trend analysis**: Wells selected for trend analysis were those that have historically and consistently exhibited dissolved BTEX concentrations exceeding the relevant regulatory criteria. These include MW-1, MW-2, MW-3, MW-10, MW-11, and MW-12. The historical data sets for all site wells were plotted and included as Attachment A.
3. **Assessment of the potential effect of water table elevation on groundwater analytical results**: It is common at petroleum release sites that there is some correlation between the concentrations of dissolved petroleum hydrocarbon constituents detected and the elevation of the water table. To assess this on a site-specific level, the historical groundwater analytical data sets for each well were plotted along with the corresponding water table elevations over time (Attachment B). As illustrated in the plots in Attachment B, there is an apparent correlation between a progressively declining water table elevation over time and declining dissolved petroleum hydrocarbon constituents detected in groundwater. However, given that the timeframes involved in this analysis are on the order of 10+ years, the readily biodegradable dissolved petroleum hydrocarbons would be expected to significantly decline regardless of what the water table is doing. It is therefore likely that this apparent correlation is not causal and that significant declines in dissolved petroleum hydrocarbons observed at the site are due to natural attenuation (as opposed to a function of water table elevation). This is supported by the fact that we now understand that natural attenuation will be active to some extent at all petroleum releases sites and typically result in significant depletion of both LNAPL and dissolved phase contamination over time.
4. **Mann-Kendall trend analysis**: The Mann-Kendall statistical test was run for the wells highlighted above for each of the BTEX constituents individually for a total of 24 tests. The results are provided in Attachment C and indicate that all trend analyses arrive at one of the following conclusions with respect to individual dissolved constituents at each well evaluated:
    a. **Declining trend**: this indicates a statistically significant declining trend with a high confidence level.
    b. **No trend**: this indicates a stable trend that is not increasing or decreasing.
    c. **>50 non-detect results**: in this case there was not enough actual detections to perform a statistically significant trend analysis.

    Therefore, all results indicate a stable or decreasing trend in the dissolved plumes. It is also notable that many of the wells, regardless of trends, have exhibited largely low or non-detect results for years. A site plan showing the trends spatially is provided as Attachment D.

3. LNAPL

There are different lines if evidence indicating that the LNAPL is also stable:

1. **Age of the LNAPL**: GHD understands that the LNAPL has been in the ground for many years. Where this is the case, LNAPL will overwhelmingly be found to have lost its ability to migrate or expand into areas that are not already contaminated. The force that drives LNAPL migration is the head/pressure of the release, and this will dissipate relatively quickly following the cessation of a release. This natural dissipation of the LNAPL head, coupled with natural attenuation processes, serve to stabilize LNAPL footprints on timescales of week to years and it is generally accepted that LNAPL that has been in the ground for many years will typically already be stable.
2. **Dissolved plume stability**: The dissolved plume stability also provides a line of evidence that the same is true of the remaining LNAPL source material since the dissolved plume can only be stable spatially if the same is true of the parent LNAPL.

This Technical Memorandum is provided as an interim output under our agreement with Plains. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

3. **LNAPL transmissivity test results**: LNAPL transmissivity test results to date indicate that the mobility and recoverability of the remaining LNAPL is very low. Relatively recent results over different seasons demonstrate that the magnitude of LNAPL transmissivity is an order of magnitude lower than commonly accepted de minimis levels/guideline values. This indicates that the recoverability of the remaining LNAPL is less than what is considered a practical end-point to LNAPL recovery and/or a demonstration that LNAPK has been recovered to the maximum extent practicable. As such, this provides a line of evidence that the LNAPL will be stable as a whole.

4. Conclusion

This evaluation has therefore demonstrated that the remaining contaminants at the site are stable and naturally attenuating based on the following lines of evidence:

– Age of the LNAPL
– LNAPL transmissivity results
– Statistical analysis of groundwater plume data

Regards

Matthew Rousseau, B.A.Sc., M.A.Sc., P.Eng
Senior Technical Director (NAPL sites)

Encl: Attachment A - BTEX Time Series
Attachment B - BTEX Trend Reports
Attachment C - M-K Trends
Attachment D - M-K Site Plan

DRAFT

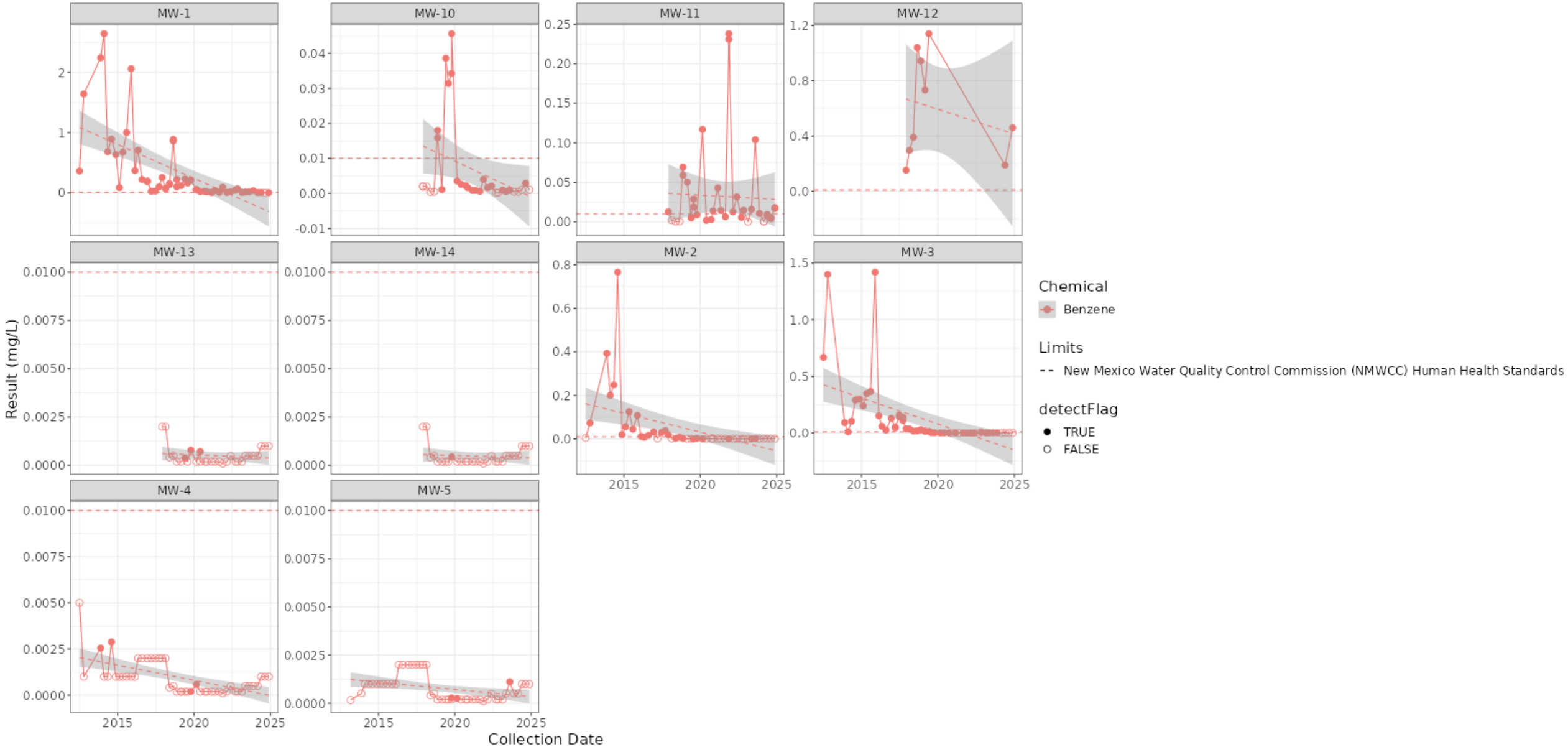
This Technical Memorandum is provided as an interim output under our agreement with Plains. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any way.

Attachments

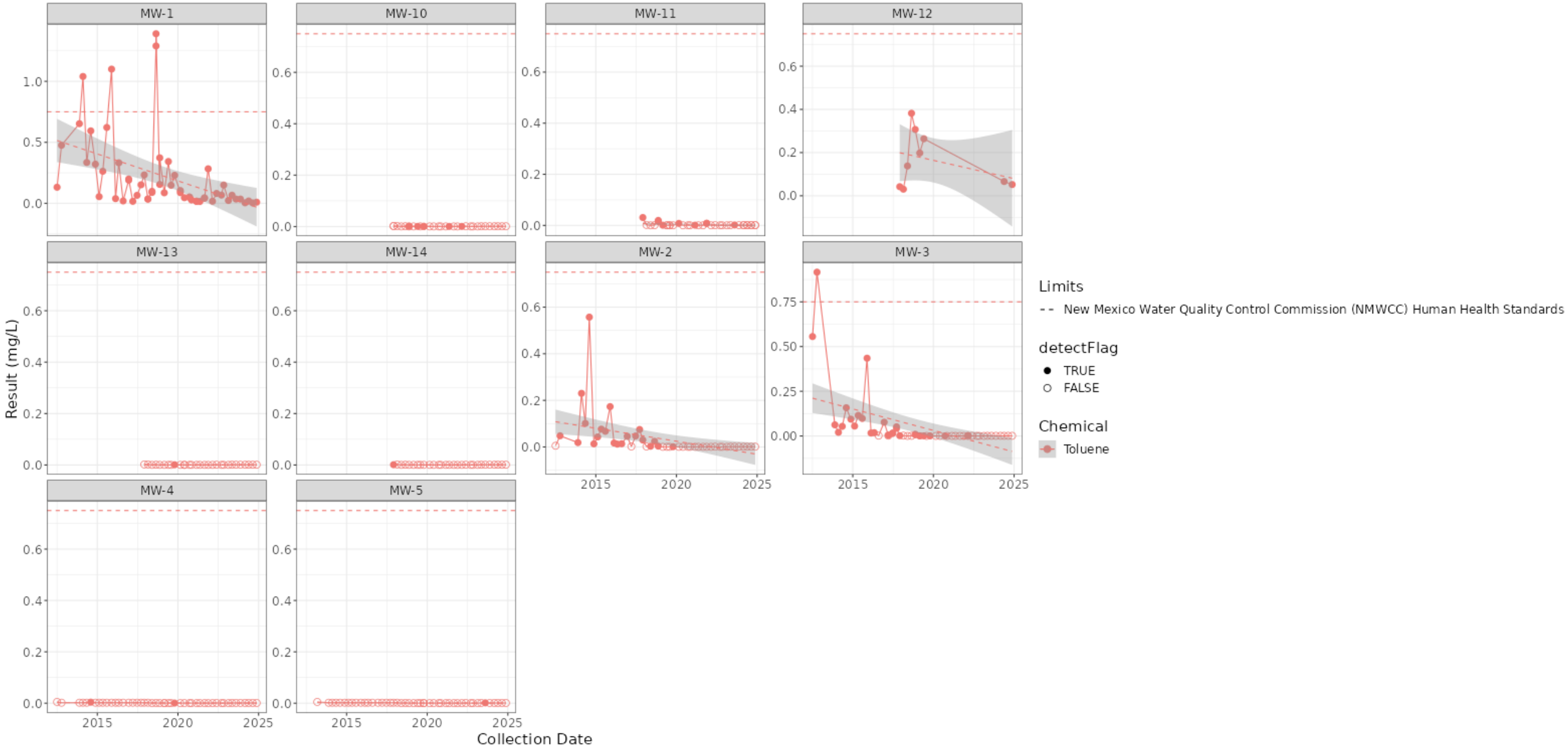
Attachment A

BTEX Time Series

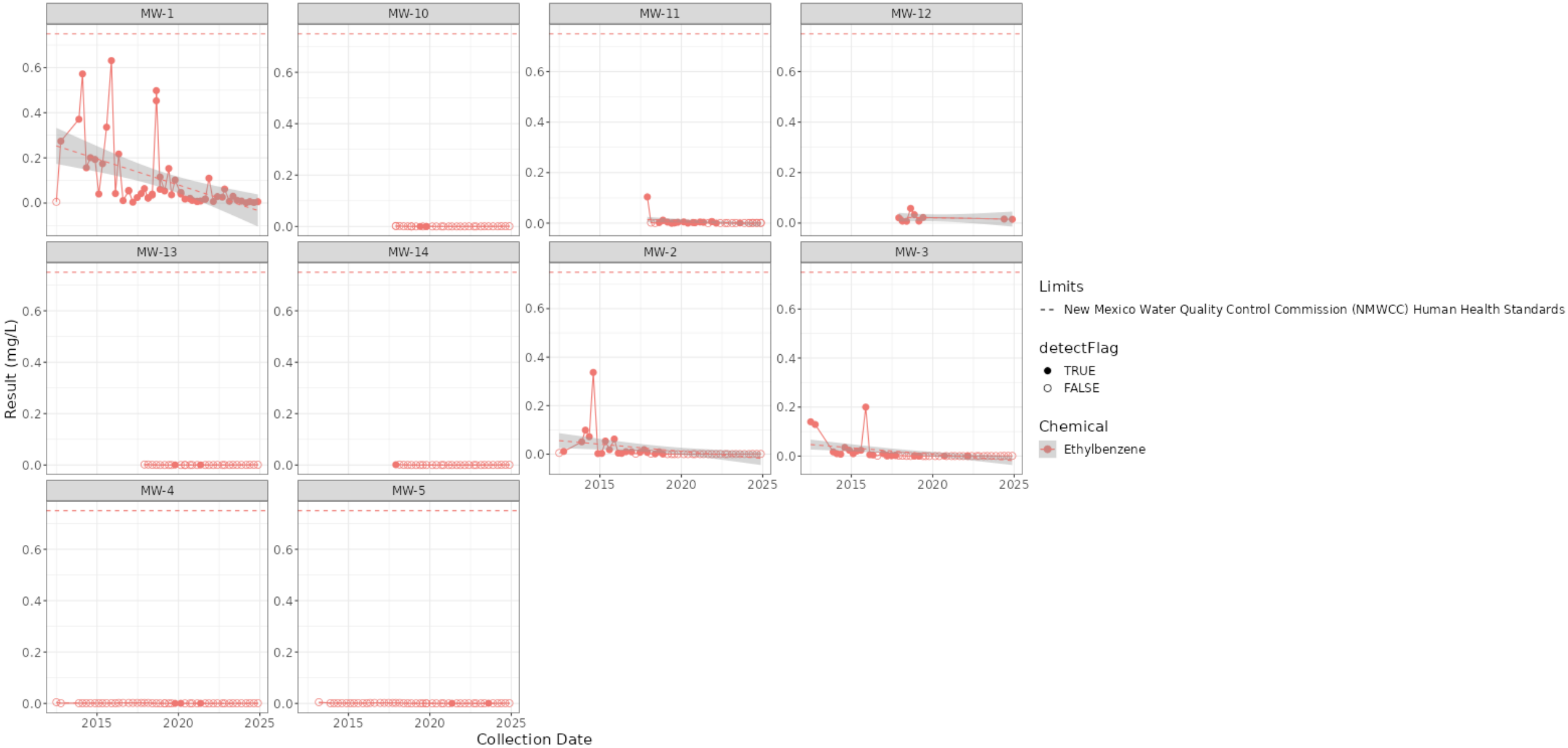
Time Series by Test and Location



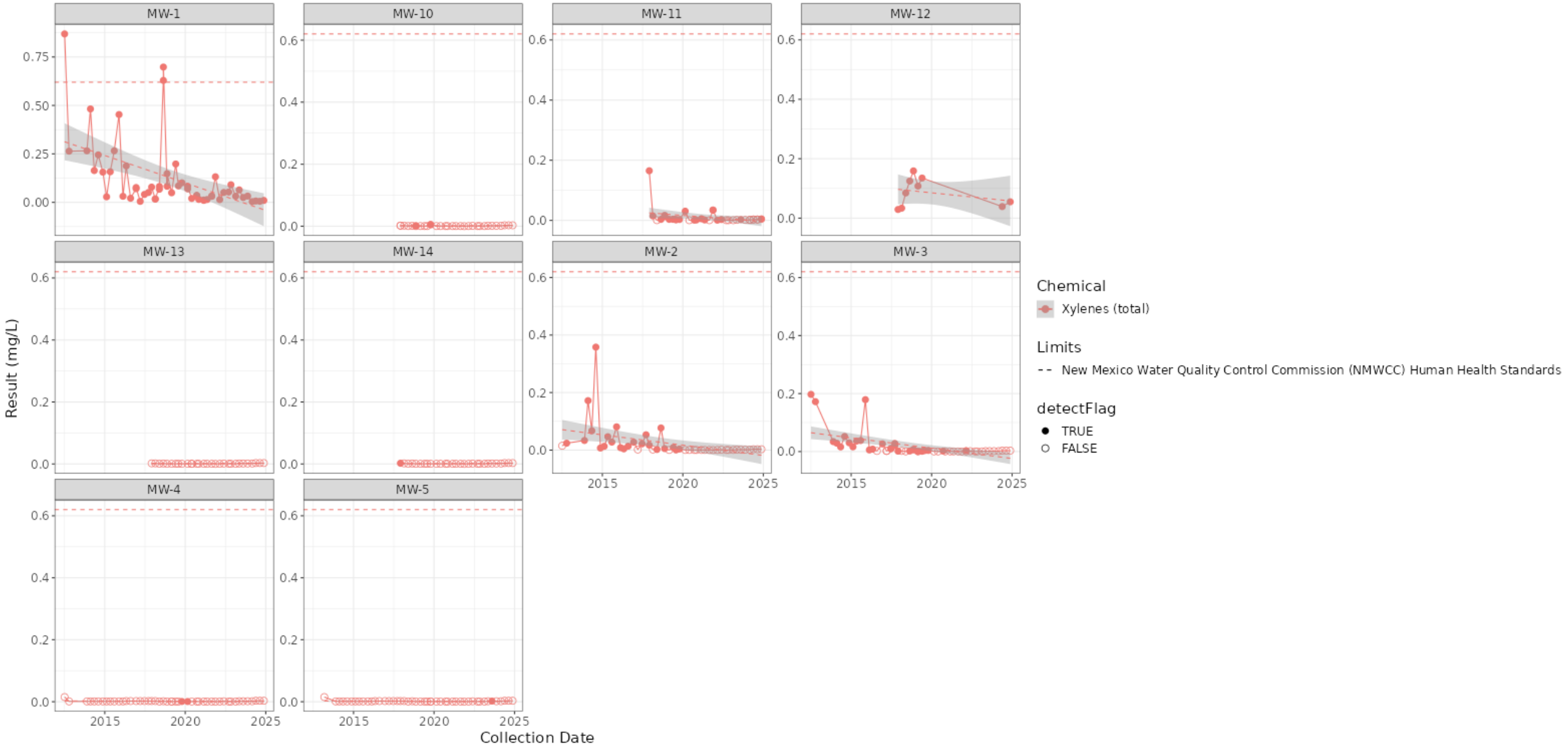
Time Series by Test and Location



Time Series by Test and Location



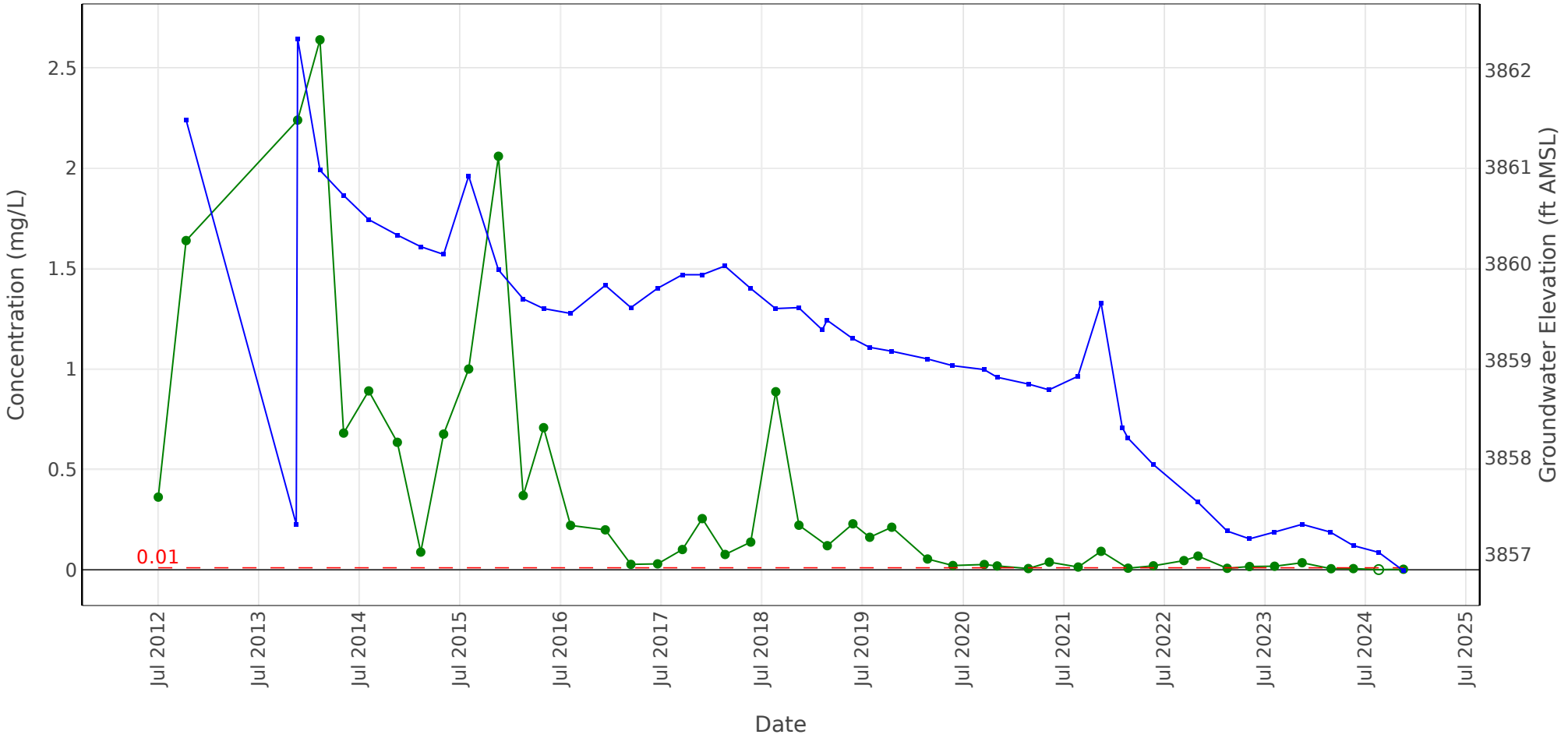
Time Series by Test and Location



Attachment B

BTEX Trend Reports

Benzene Concentrations in Ground Water
Well: MW-1
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



Chemicals
- Benzene

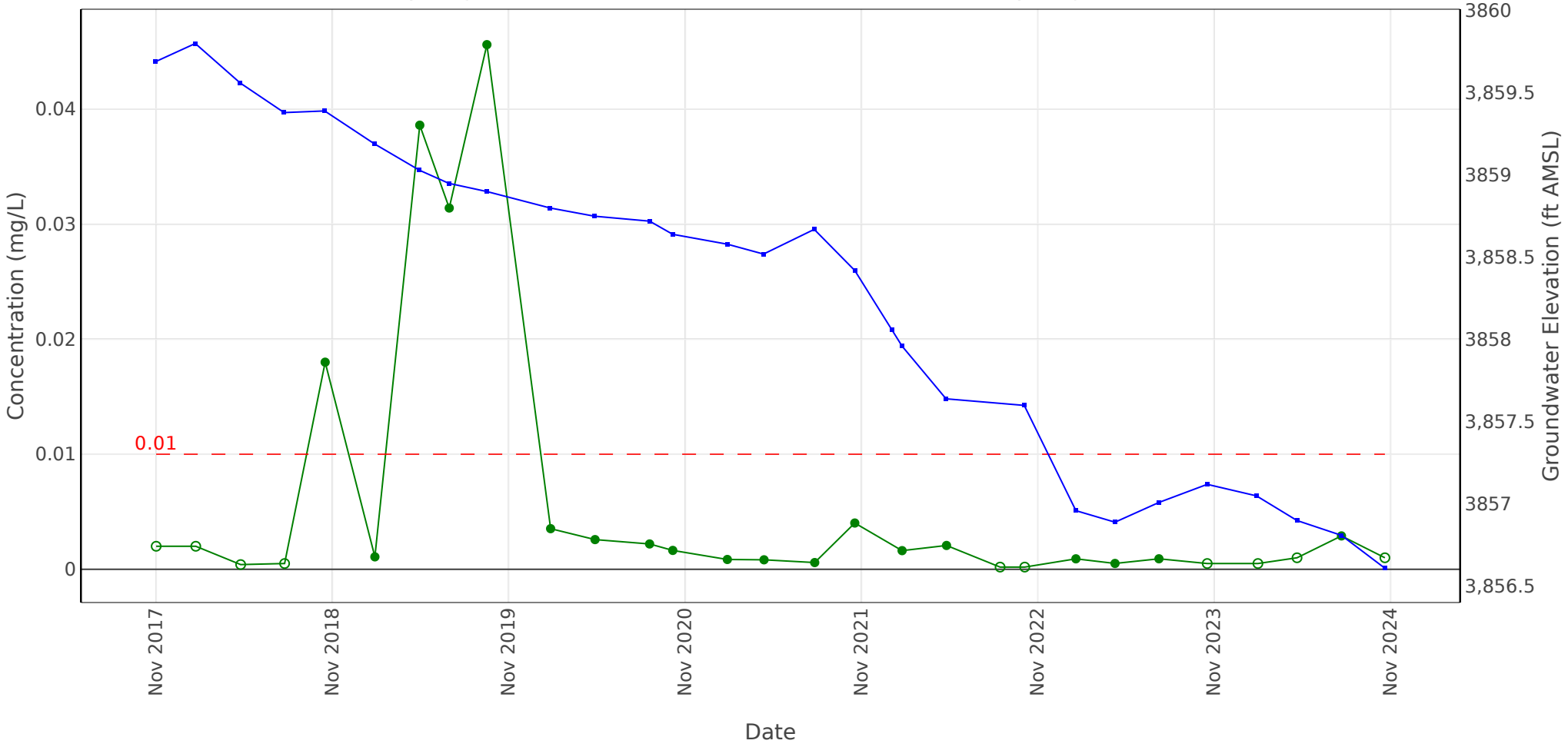
Detection
- Detect
- Non-Detect

GW Elevation
- Groundwater Elevation

Criteria
- New Mexico Water Quality Control Commission (NMWCC) Human Health Standards

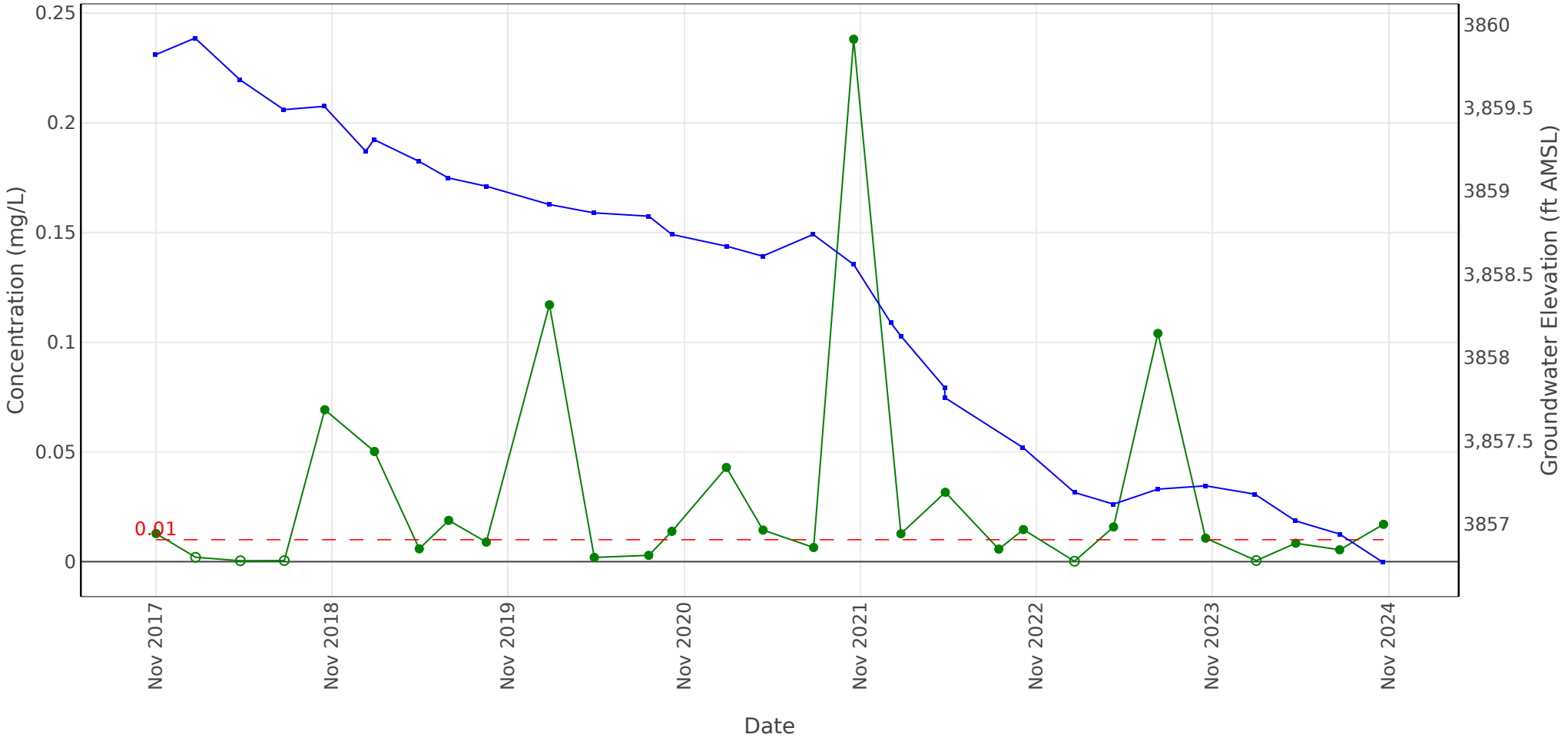
Note: Non-Detects are plotted as is the associated detection limit

Benzene Concentrations in Ground Water
Well: MW-10
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



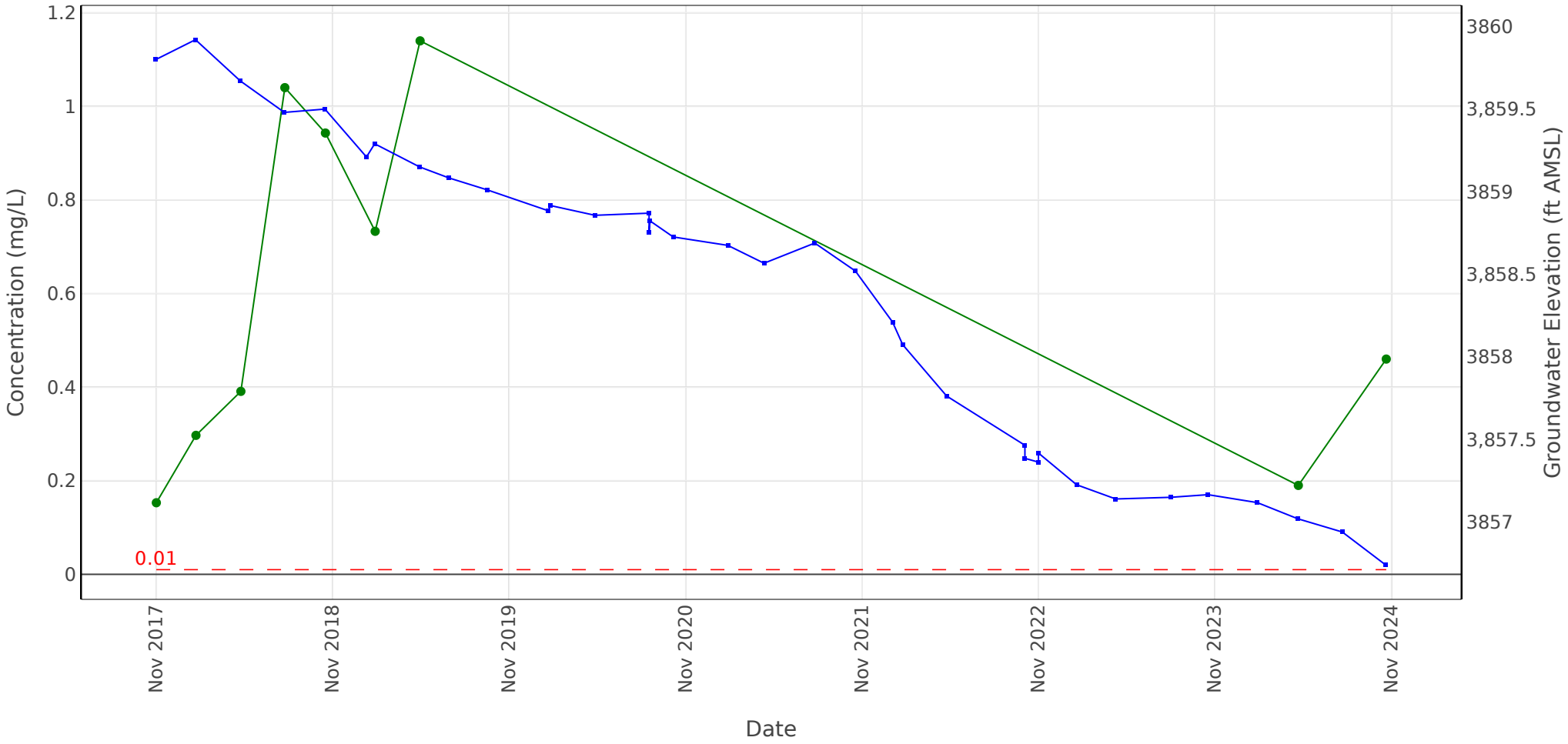
Note: Non-Detects are plotted as is the associated detection limit

Benzene Concentrations in Ground Water
Well: MW-11
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



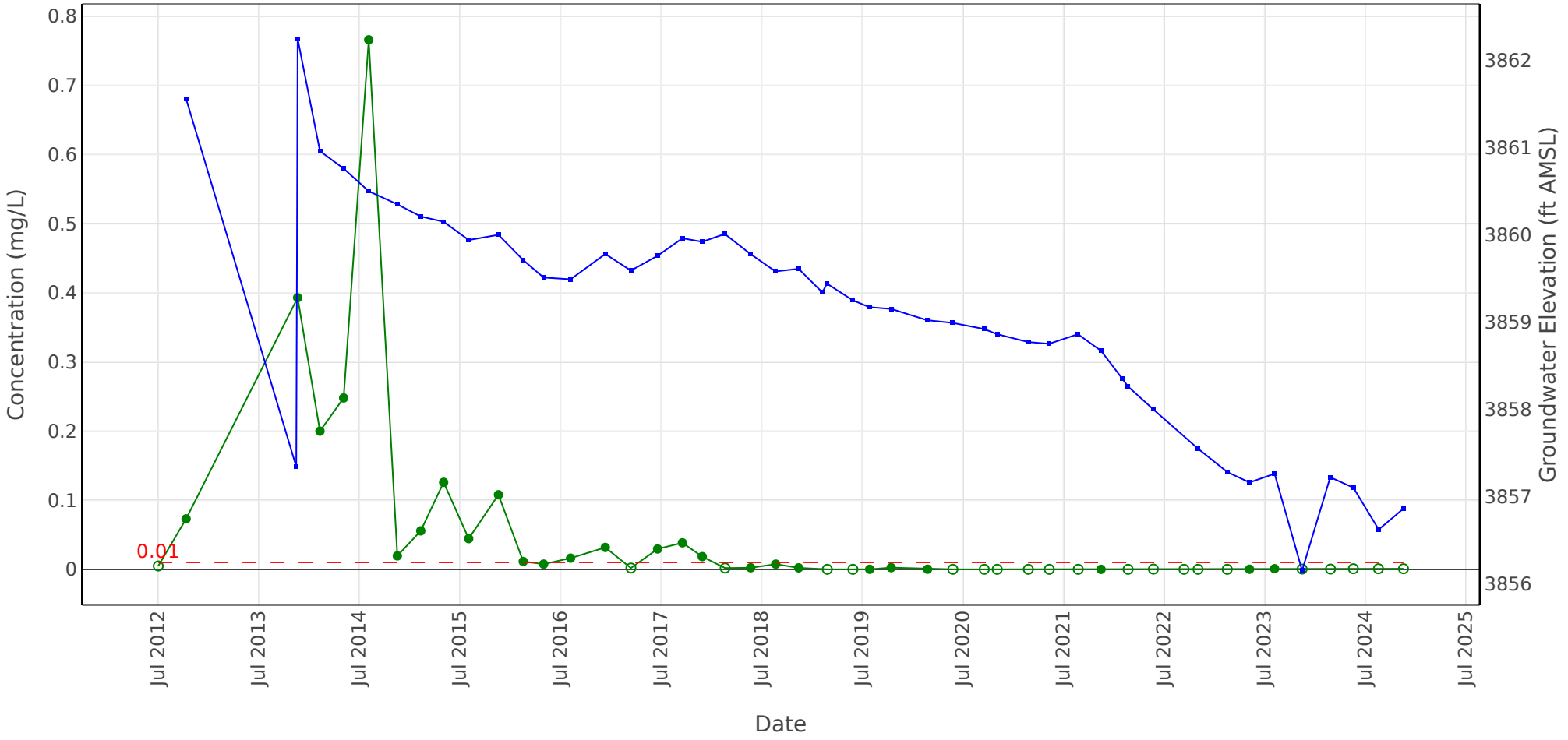
Note: Non-Detects are plotted as is the associated detection limit

Benzene Concentrations in Ground Water
Well: MW-12
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



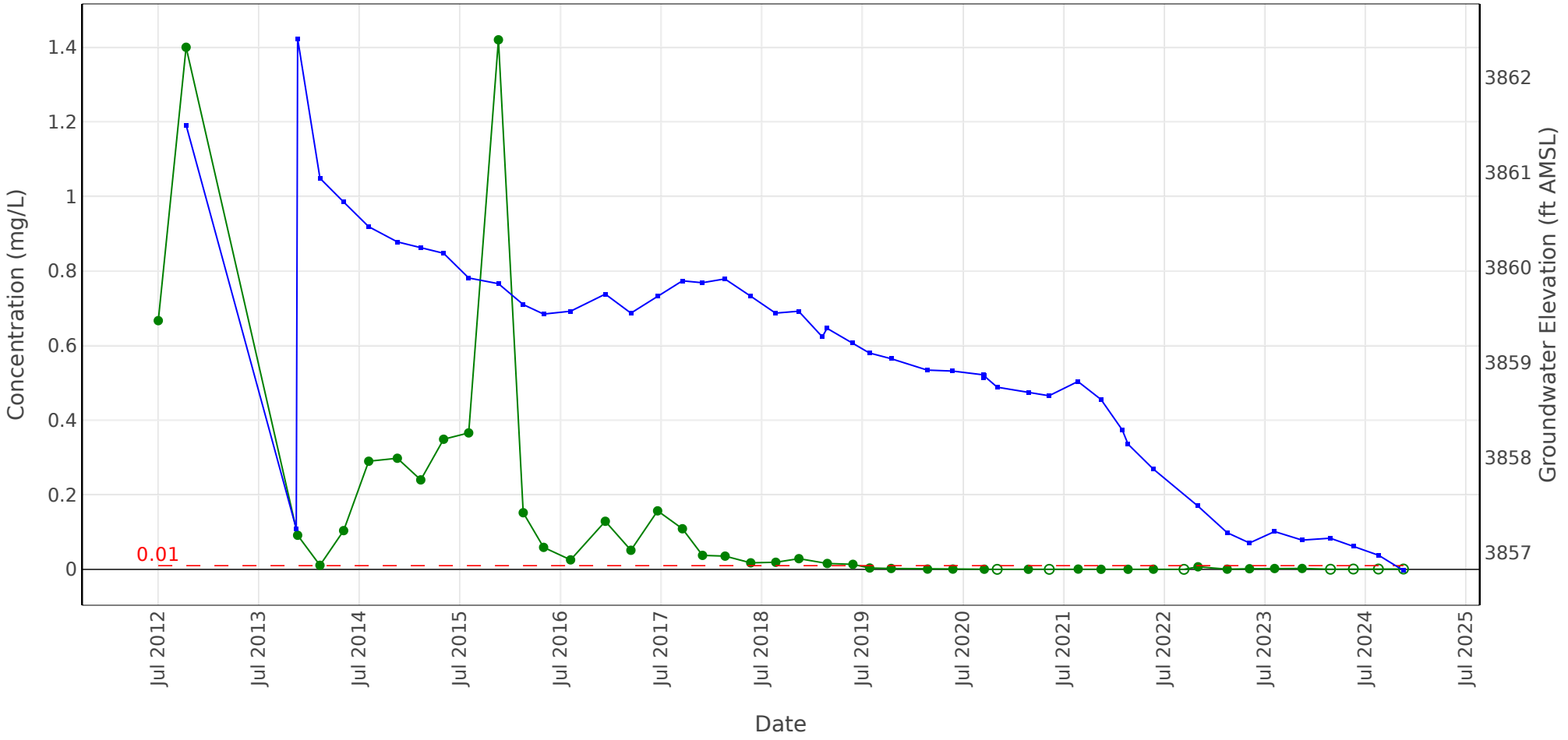
Note: Non-Detects are plotted as is the associated detection limit

Benzene Concentrations in Ground Water
Well: MW-2
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



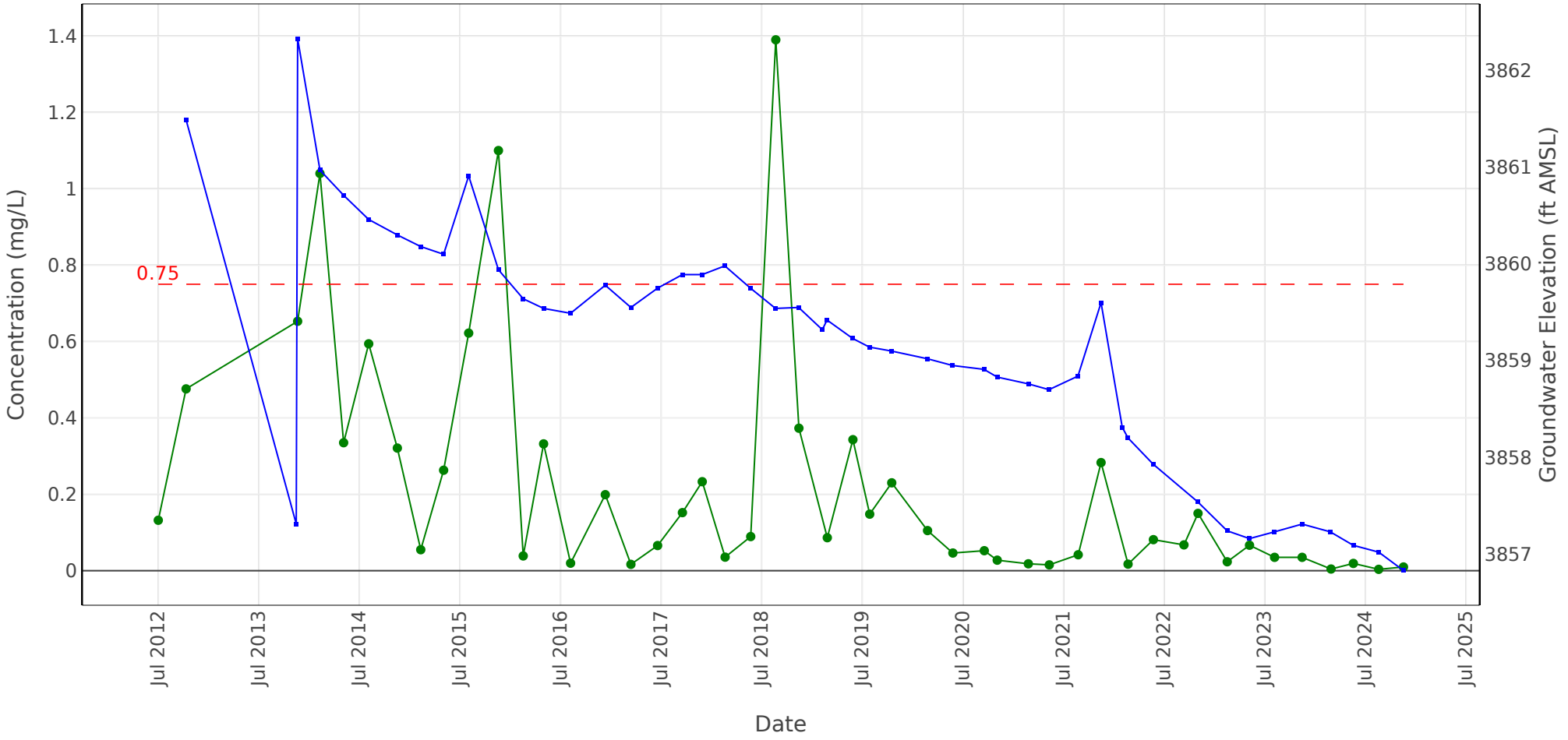
Note: Non-Detects are plotted as is the associated detection limit

Benzene Concentrations in Ground Water
Well: MW-3
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



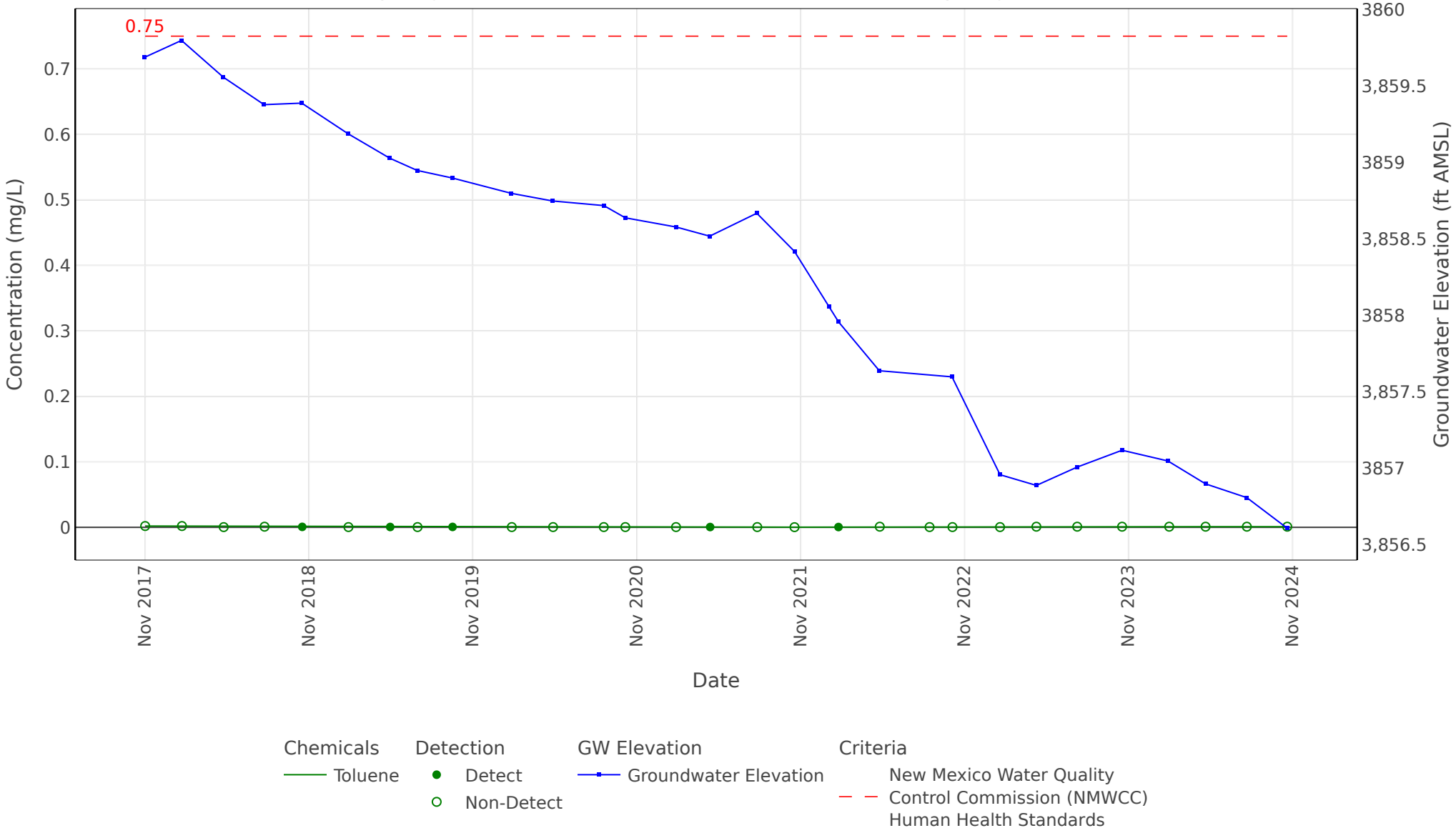
Note: Non-Detects are plotted as is the associated detection limit

Toluene Concentrations in Ground Water
Well: MW-1
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



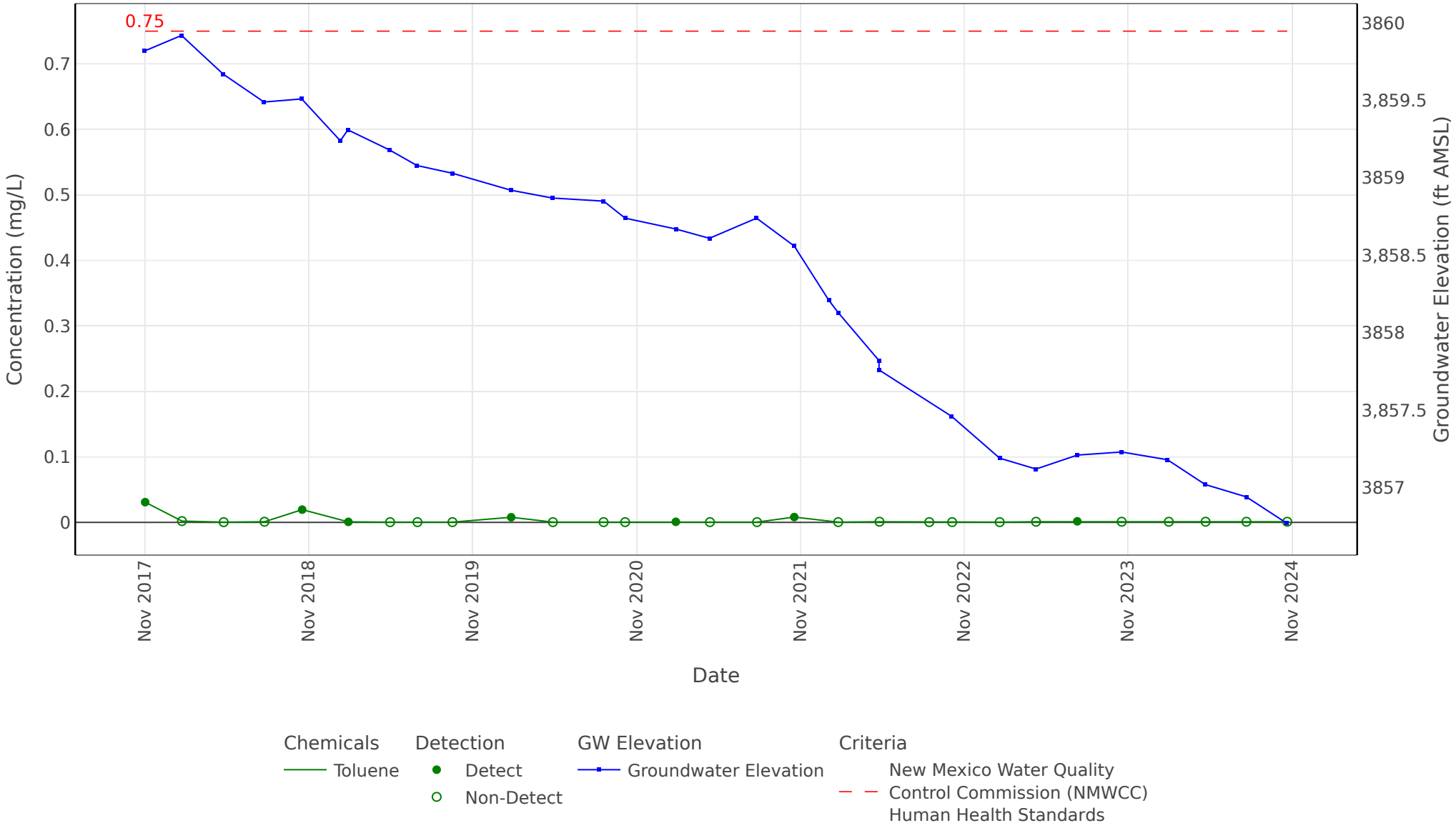
Note: Non-Detects are plotted as is the associated detection limit

Toluene Concentrations in Ground Water
Well: MW-10
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



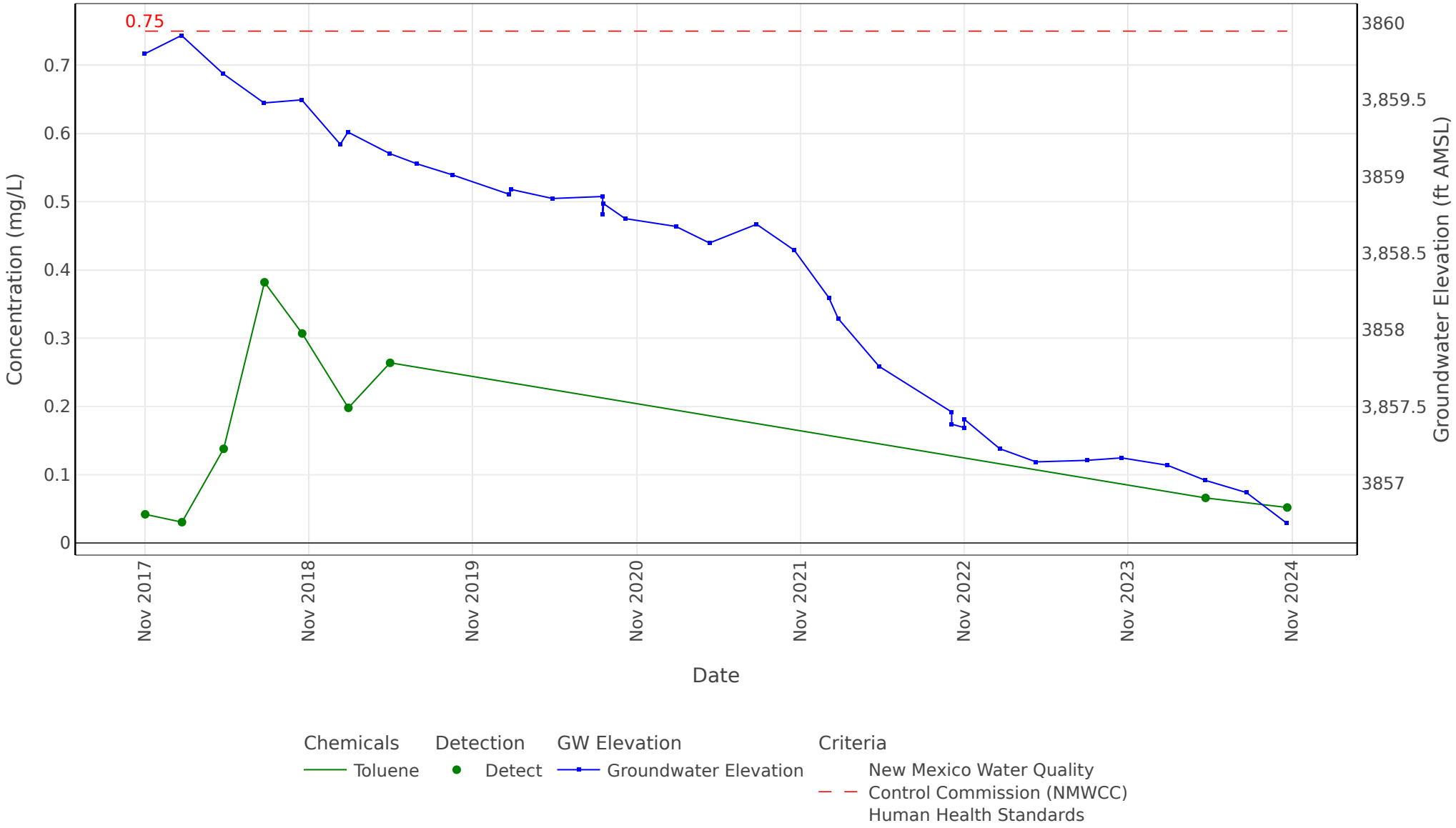
Note: Non-Detects are plotted as is the associated detection limit

Toluene Concentrations in Ground Water
Well: MW-11
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



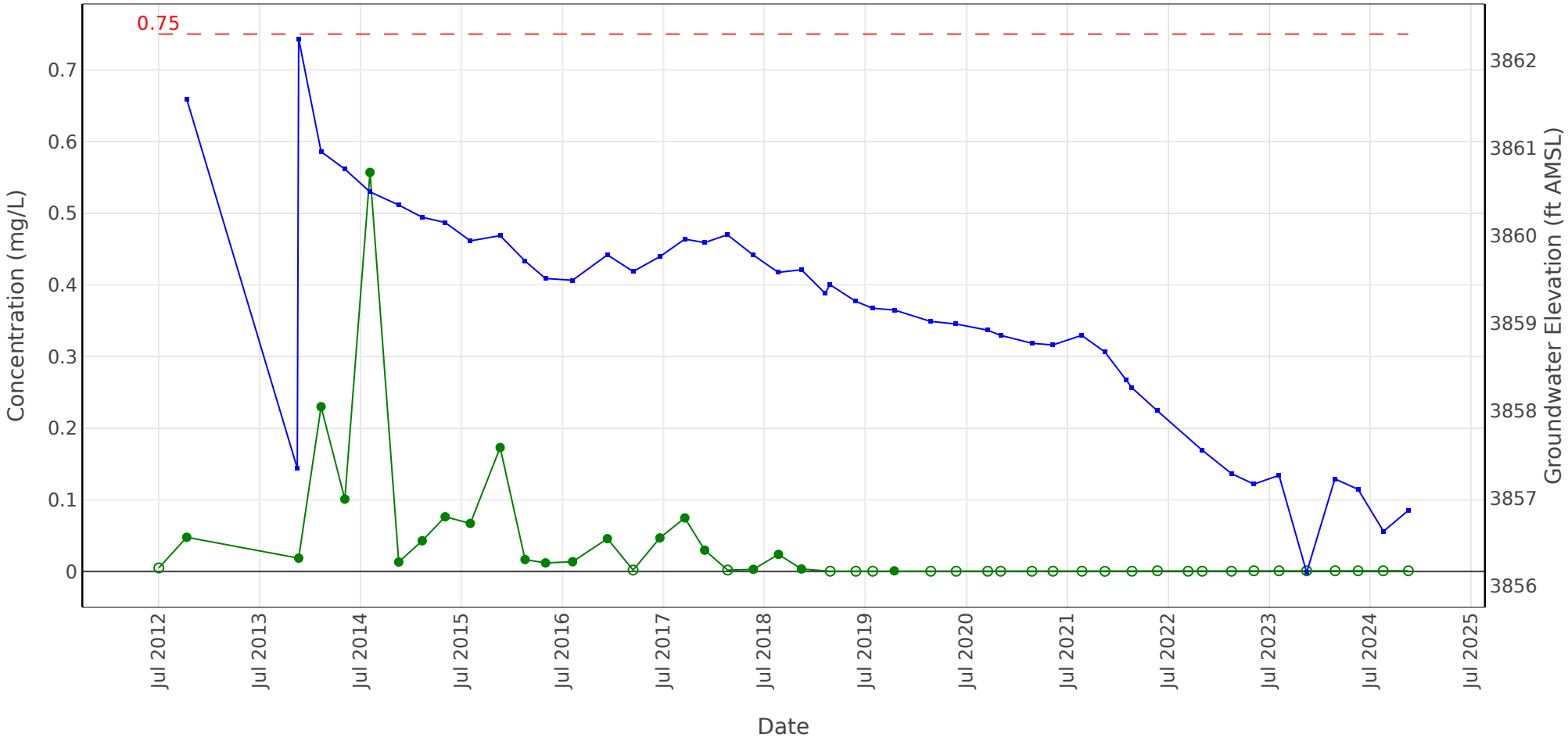
Note: Non-Detects are plotted as is the associated detection limit

Toluene Concentrations in Ground Water
Well: MW-12
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



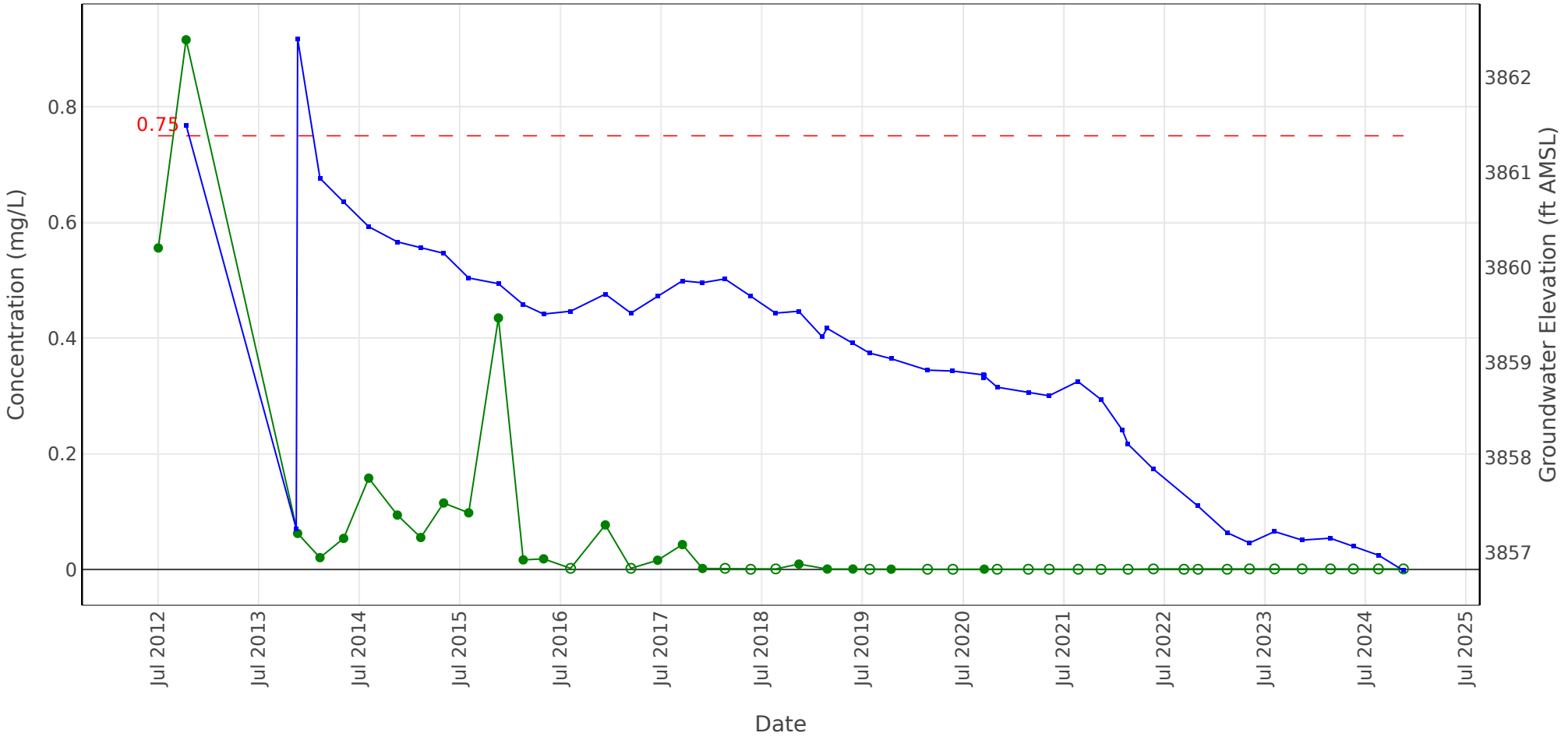
Note: Non-Detects are plotted as is the associated detection limit

Toluene Concentrations in Ground Water
Well: MW-2
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



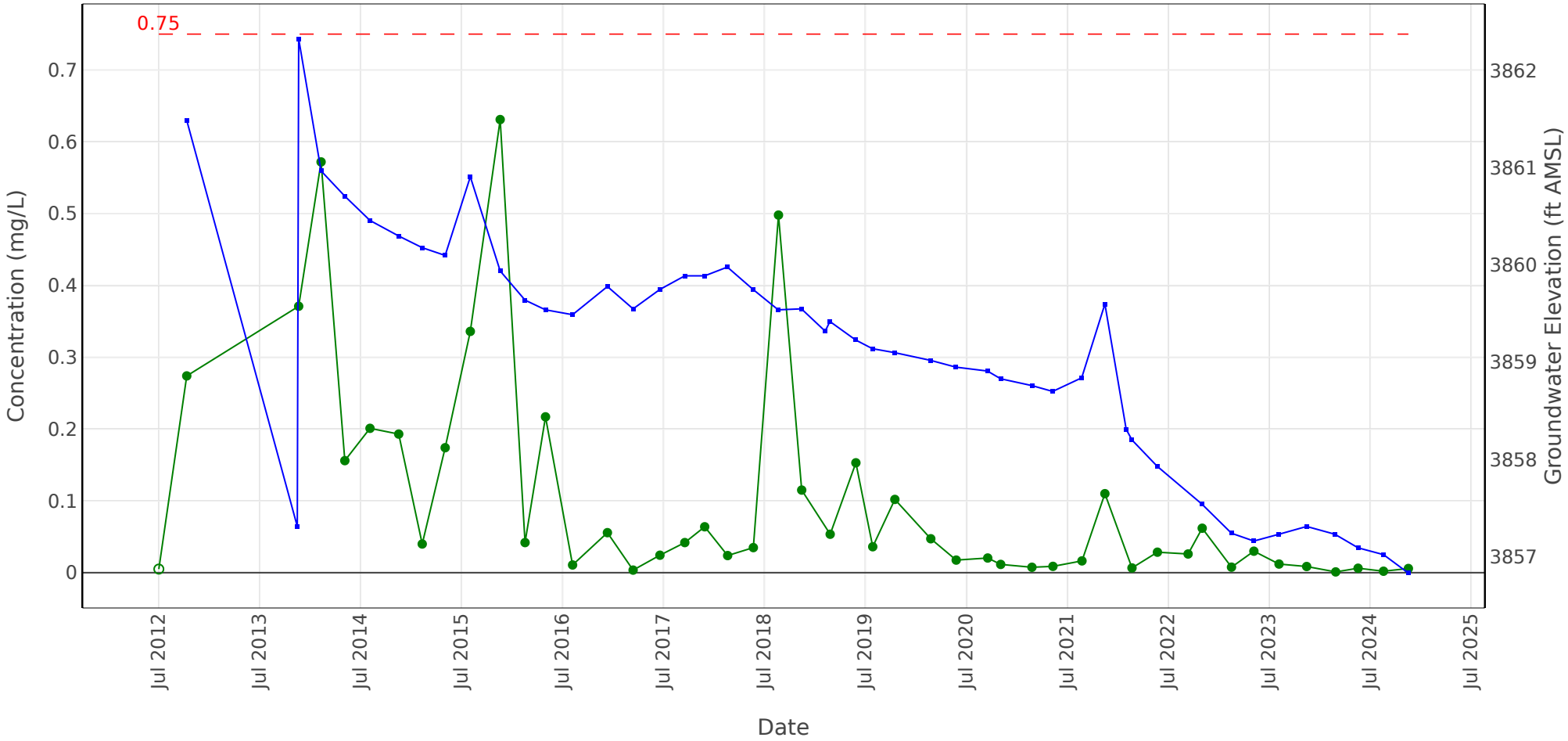
Note: Non-Detects are plotted as is the associated detection limit

Toluene Concentrations in Ground Water
Well: MW-3
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



Note: Non-Detects are plotted as is the associated detection limit

Ethylbenzene Concentrations in Ground Water
Well: MW-1
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



Chemicals
- Ethylbenzene

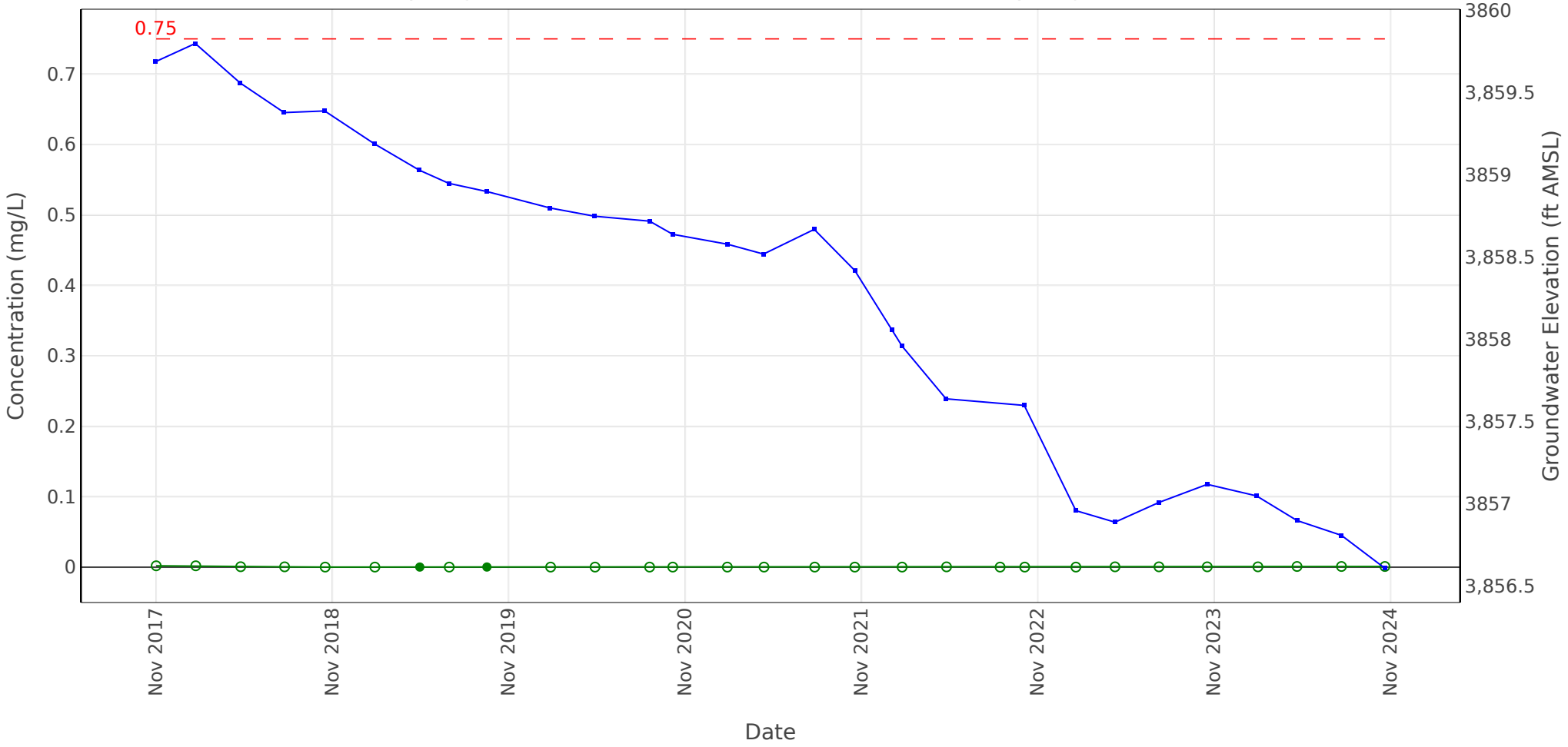
Detection
- Detect
- Non-Detect

GW Elevation
- Groundwater Elevation

Criteria
- New Mexico Water Quality Control Commission (NMWCC) Human Health Standards

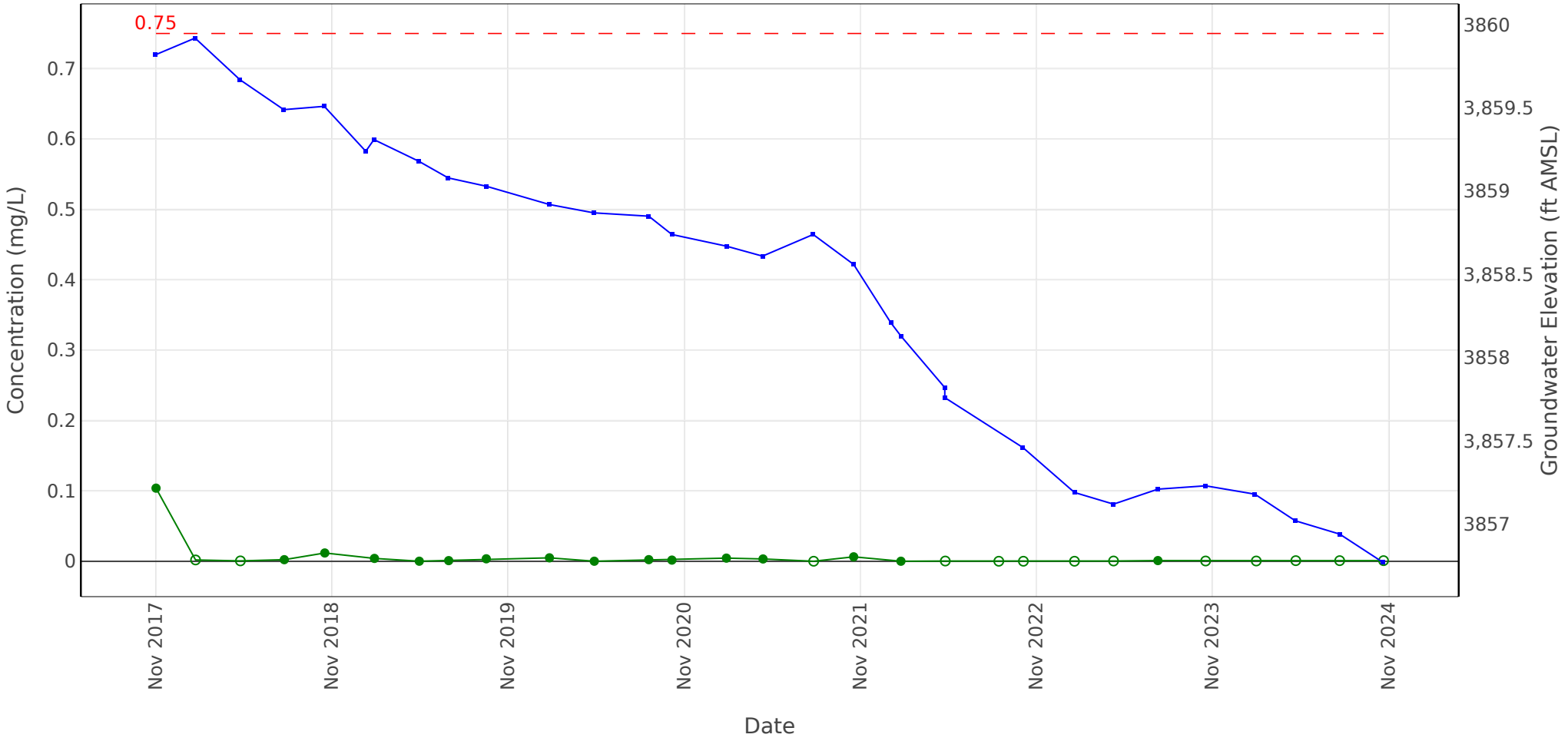
Note: Non-Detects are plotted as is the associated detection limit

Ethylbenzene Concentrations in Ground Water
Well: MW-10
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



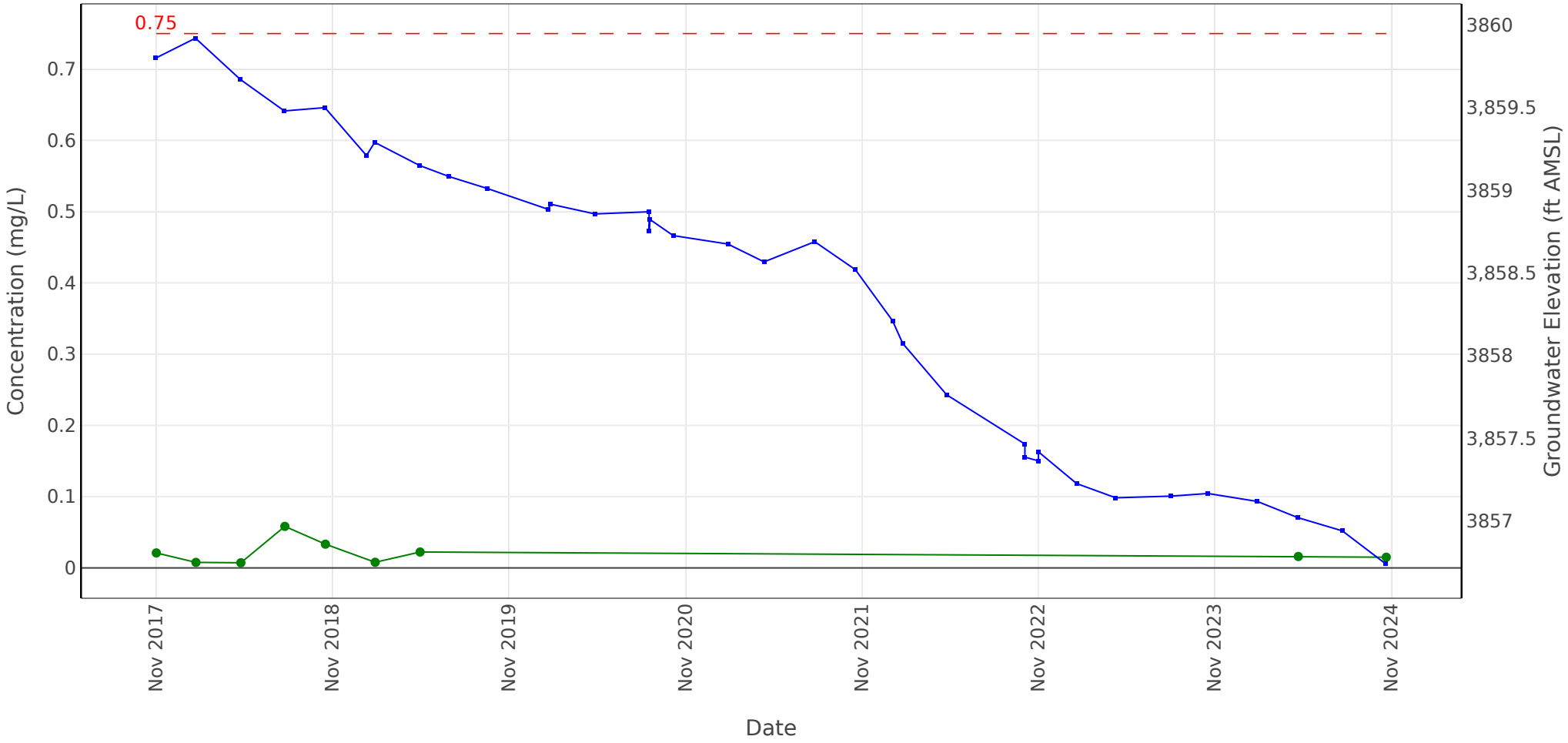
Note: Non-Detects are plotted as is the associated detection limit

Ethylbenzene Concentrations in Ground Water
Well: MW-11
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



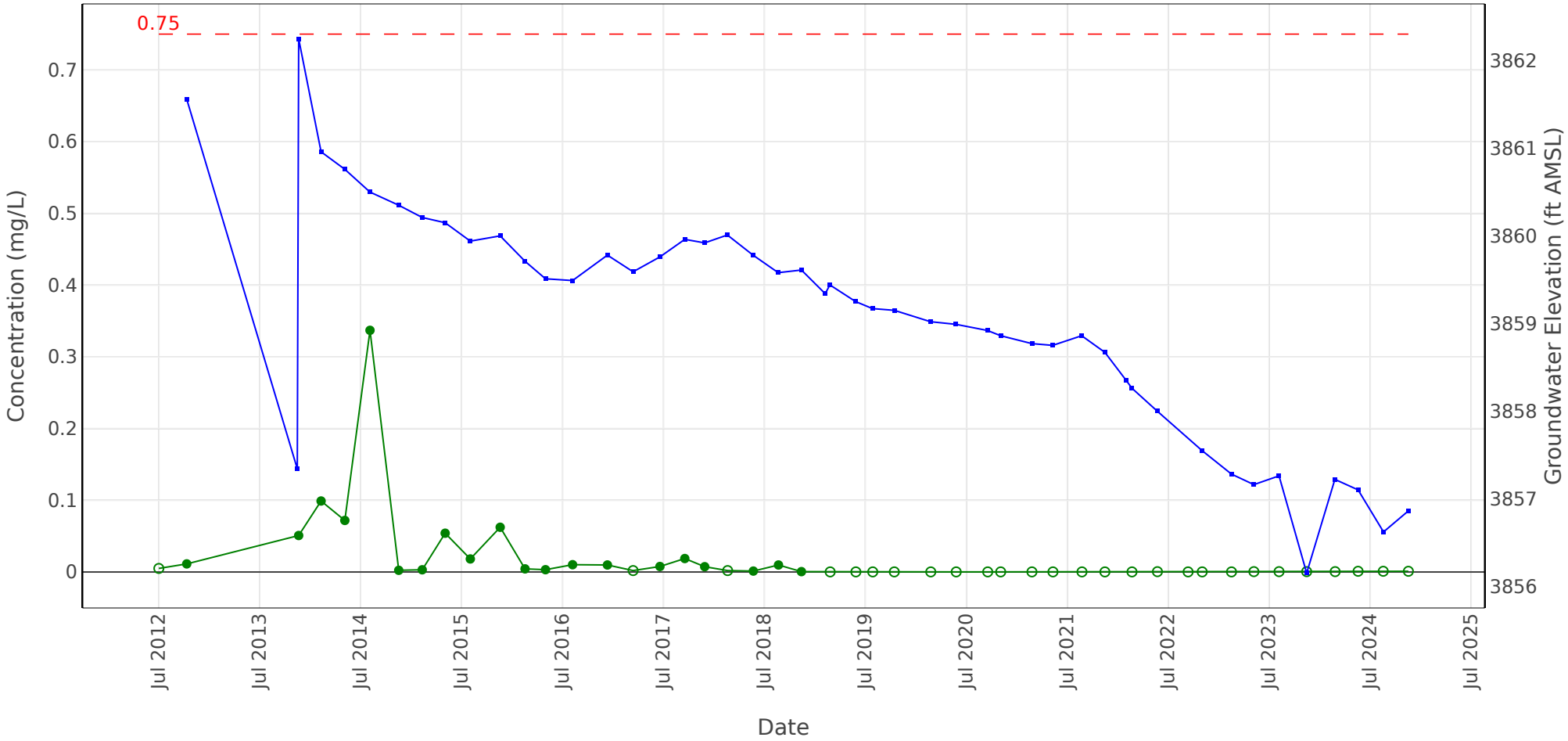
Note: Non-Detects are plotted as is the associated detection limit

Ethylbenzene Concentrations in Ground Water
Well: MW-12
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



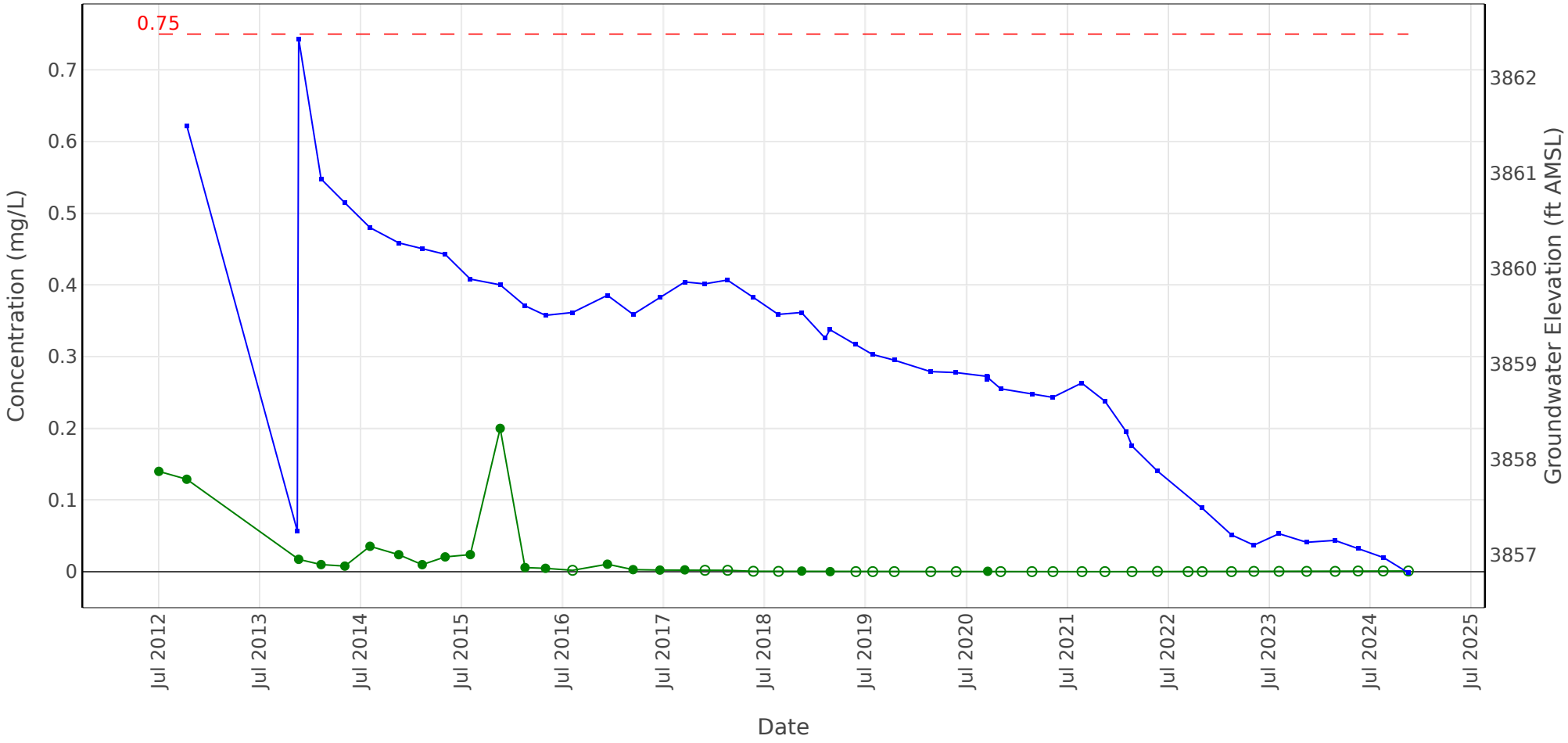
Note: Non-Detects are plotted as is the associated detection limit

Ethylbenzene Concentrations in Ground Water
Well: MW-2
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



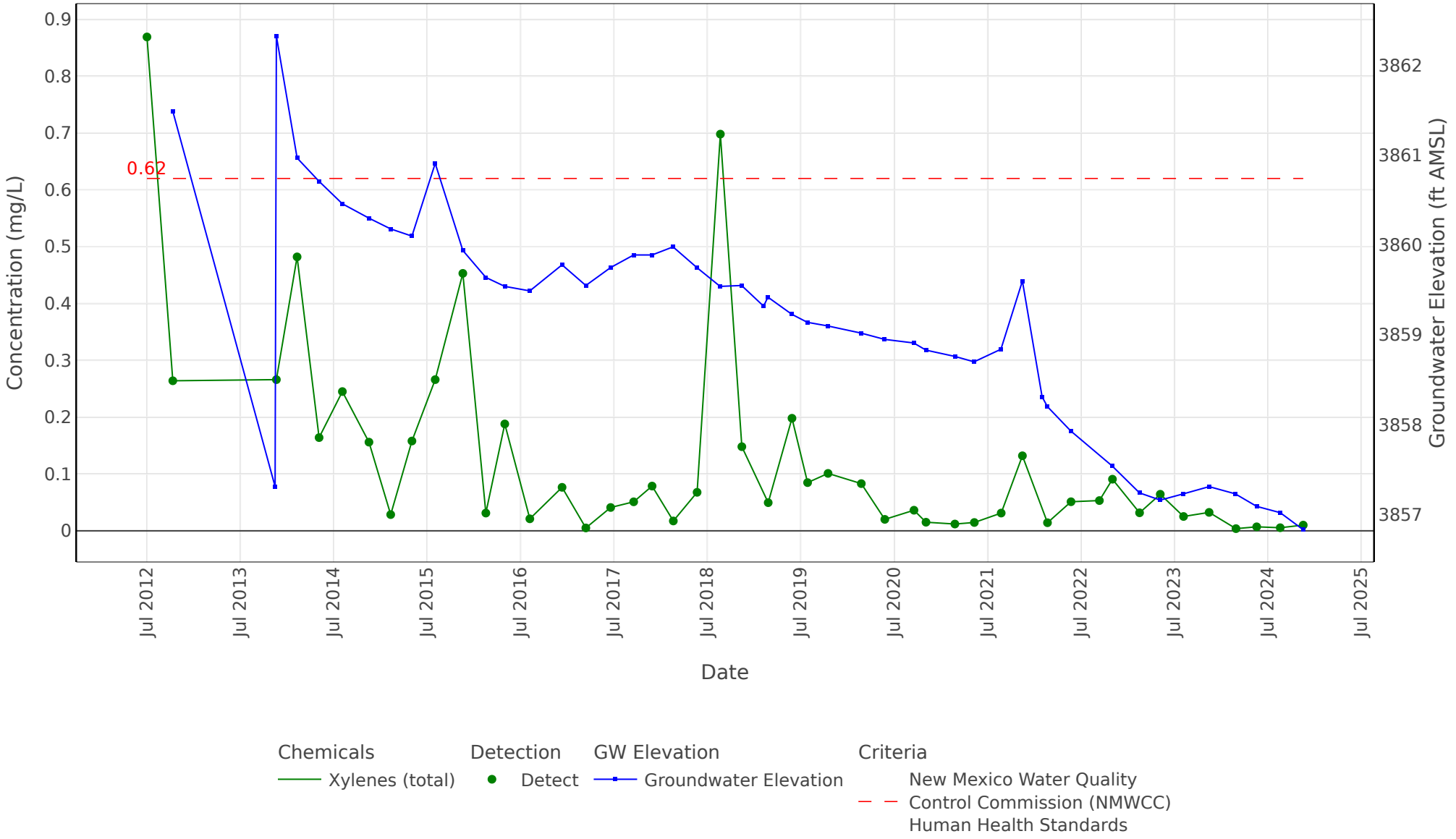
Note: Non-Detects are plotted as is the associated detection limit

Ethylbenzene Concentrations in Ground Water
Well: MW-3
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



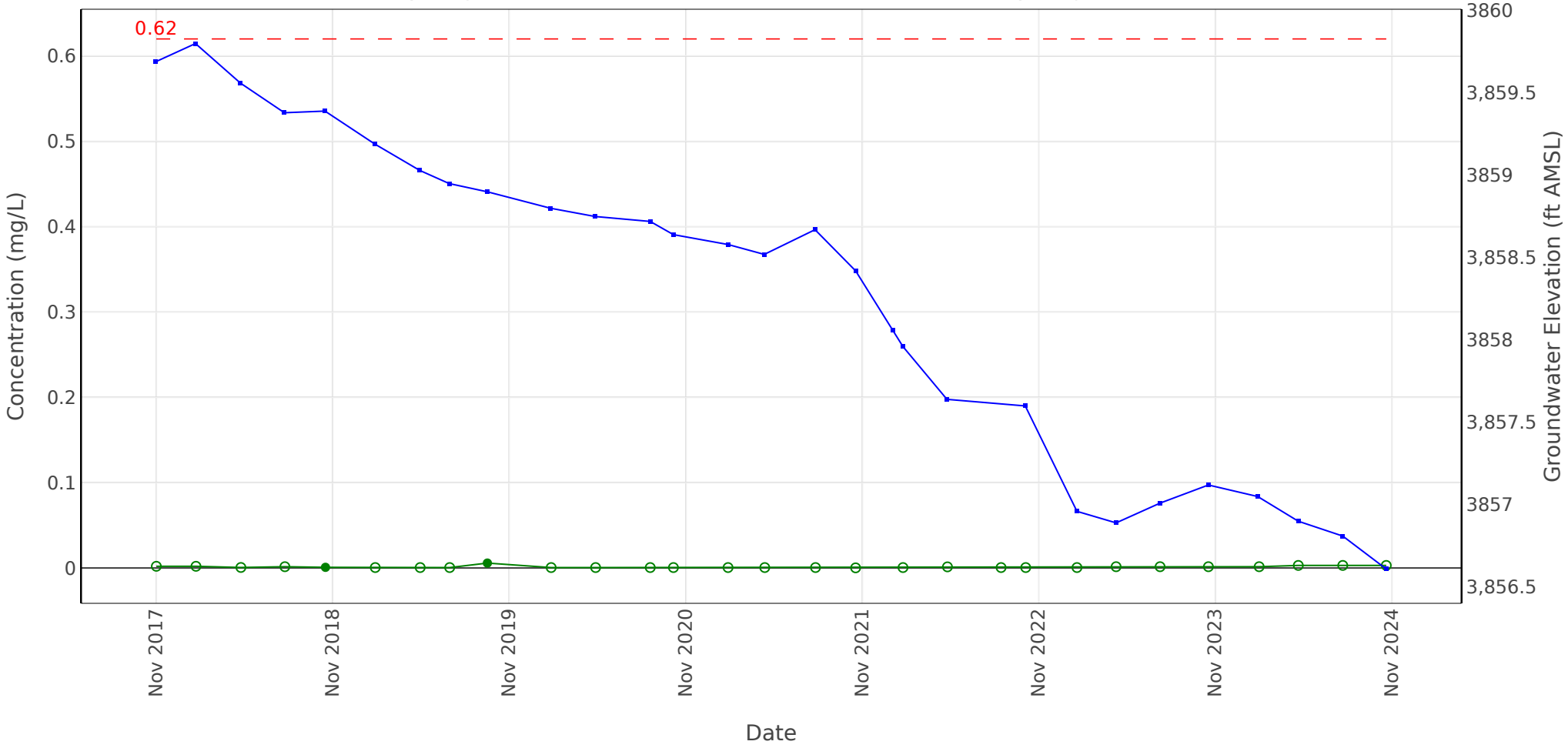
Note: Non-Detects are plotted as is the associated detection limit

Xylenes (total) Concentrations in Ground Water
Well: MW-1
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



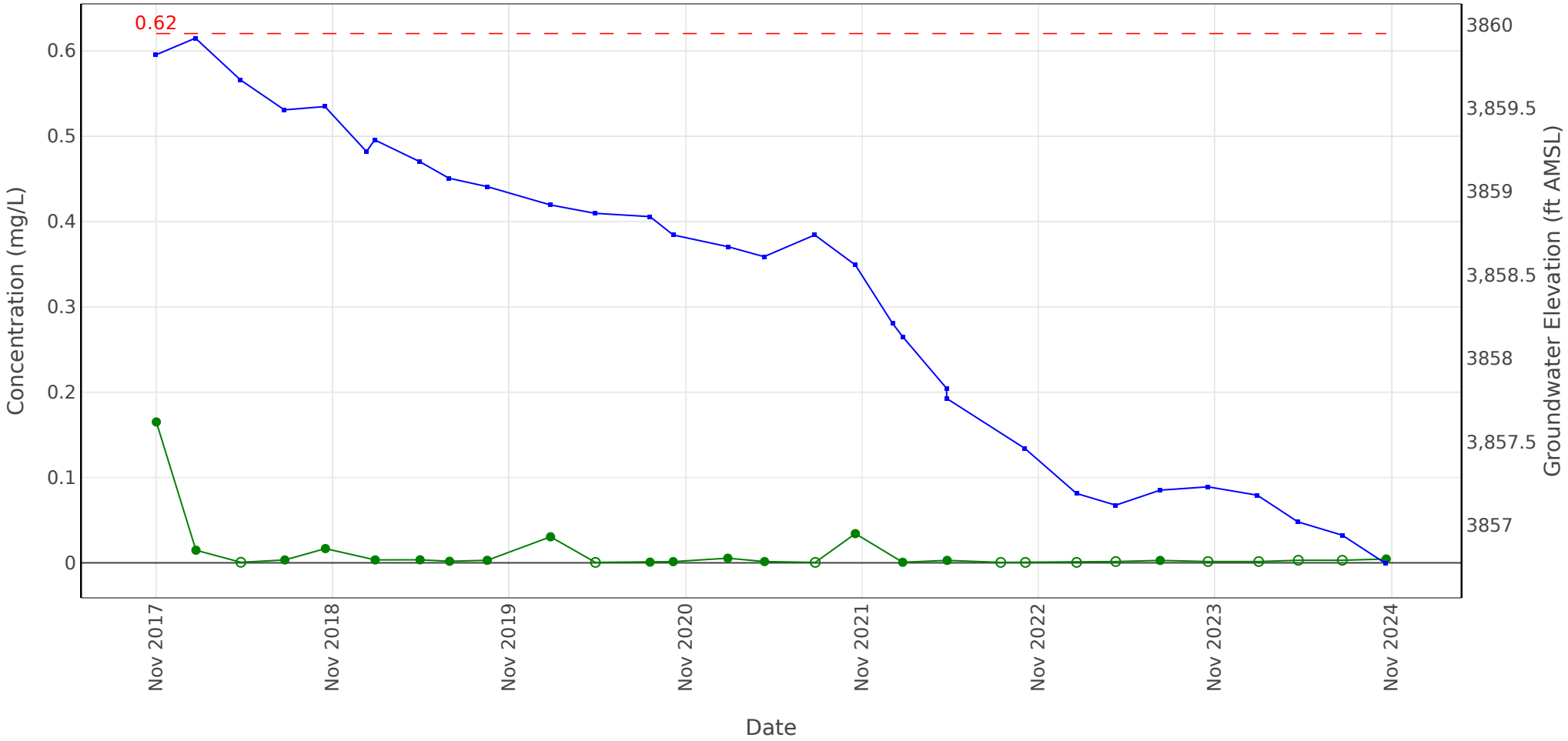
Note: Non-Detects are plotted as is the associated detection limit

Xylenes (total) Concentrations in Ground Water
Well: MW-10
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



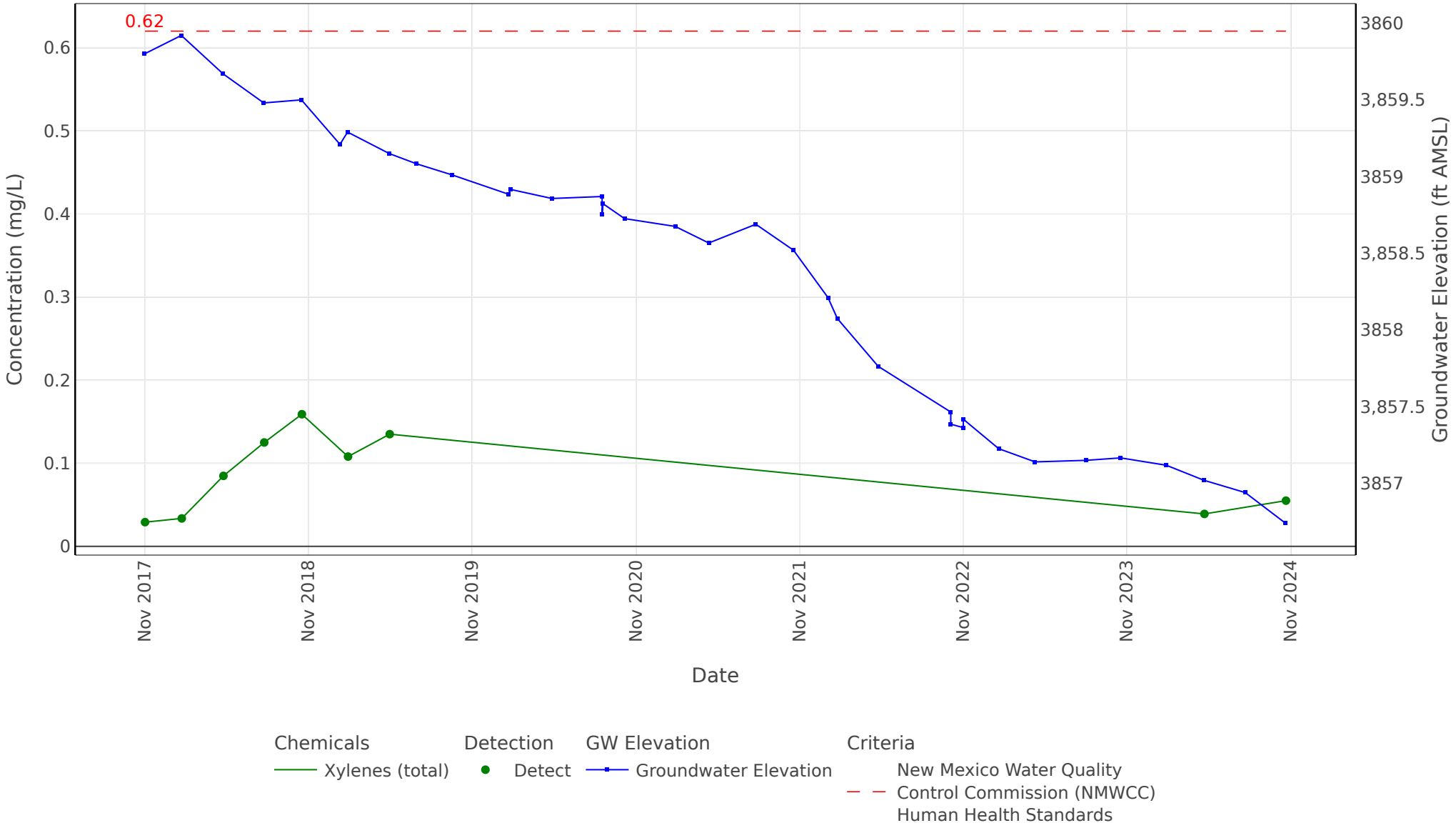
Note: Non-Detects are plotted as is the associated detection limit

Xylenes (total) Concentrations in Ground Water
Well: MW-11
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



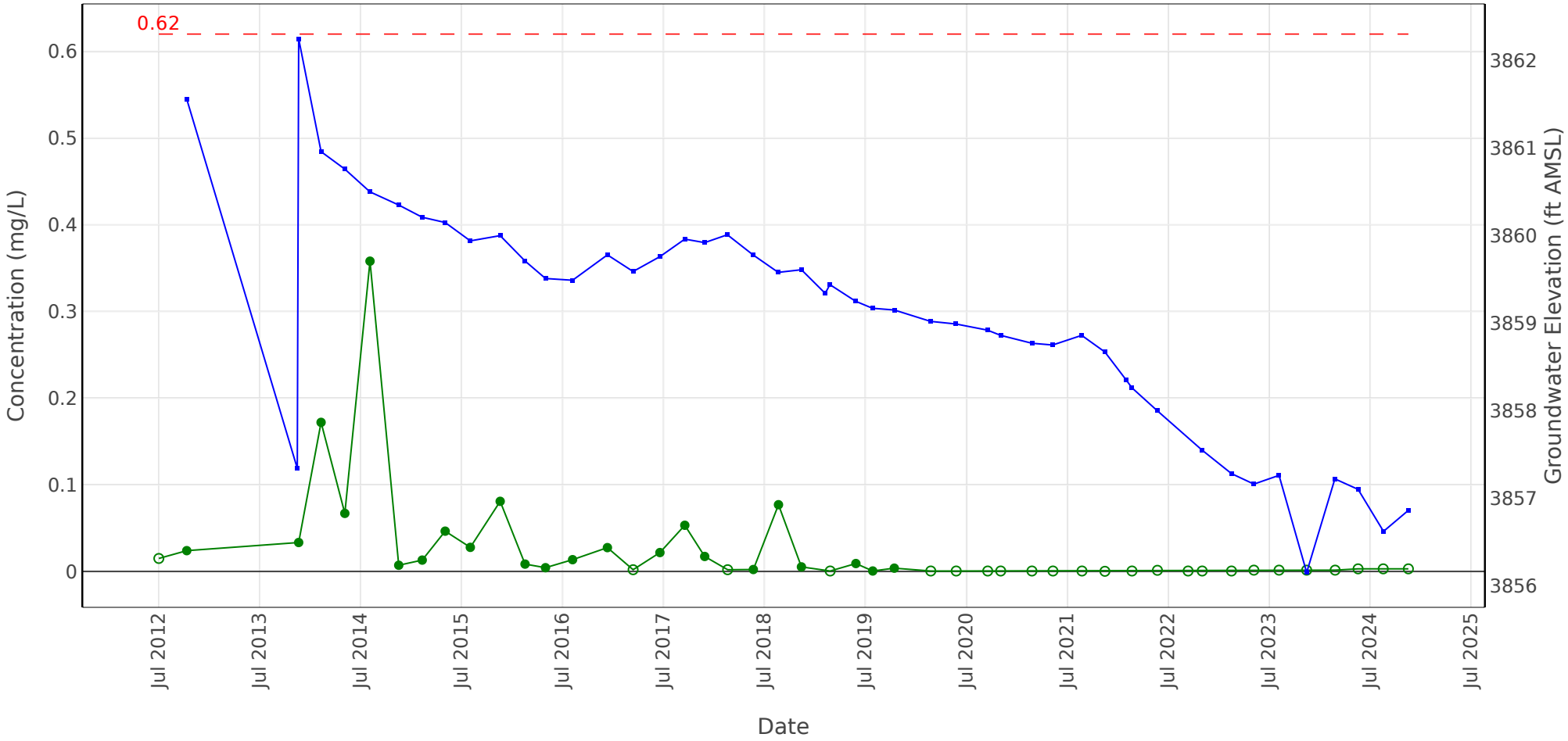
Note: Non-Detects are plotted as is the associated detection limit

Xylenes (total) Concentrations in Ground Water
Well: MW-12
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



Note: Non-Detects are plotted as is the associated detection limit

Xylenes (total) Concentrations in Ground Water
Well: MW-2
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



Chemicals
Xylenes (total)

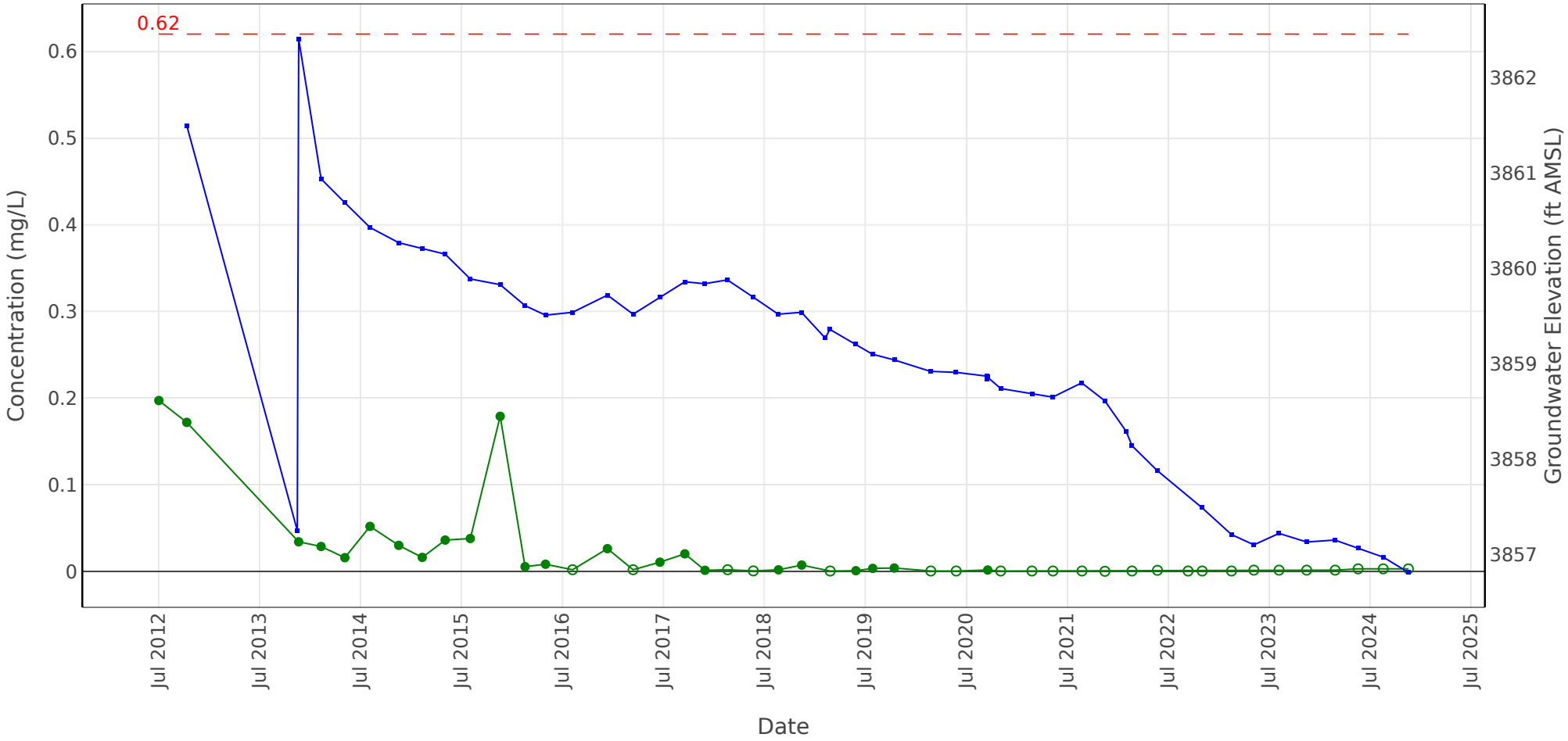
Detection
Detect
Non-Detect

GW Elevation
Groundwater Elevation

Criteria
New Mexico Water Quality Control Commission (NMWCC) Human Health Standards

Note: Non-Detects are plotted as is the associated detection limit

Xylenes (total) Concentrations in Ground Water
Well: MW-3
Chevron Grayburg 6-Inch Sec. 6 (Historical) SRS No. Chevron Grayburg 6-Inch Historical



Note: Non-Detects are plotted as is the associated detection limit

Attachment C

M-K Trends

Date Range

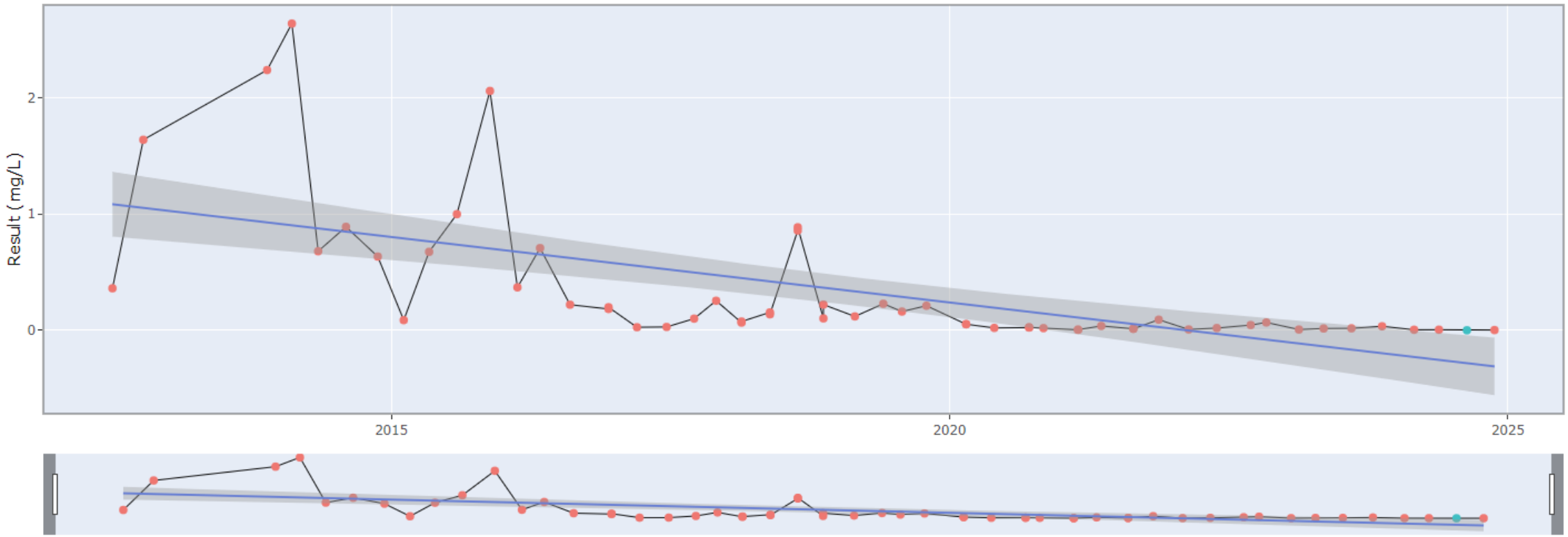
Start: 2012-07-03

End: 2024-11-18

Trend Result

Decreasing Trend

Trend test for Benzene at MW-1



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-6.99	0.00	56	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	5.87	0.92	6.36	0.00
CollectionDate	-0.00	0.00	-6.01	0.00

Date Range

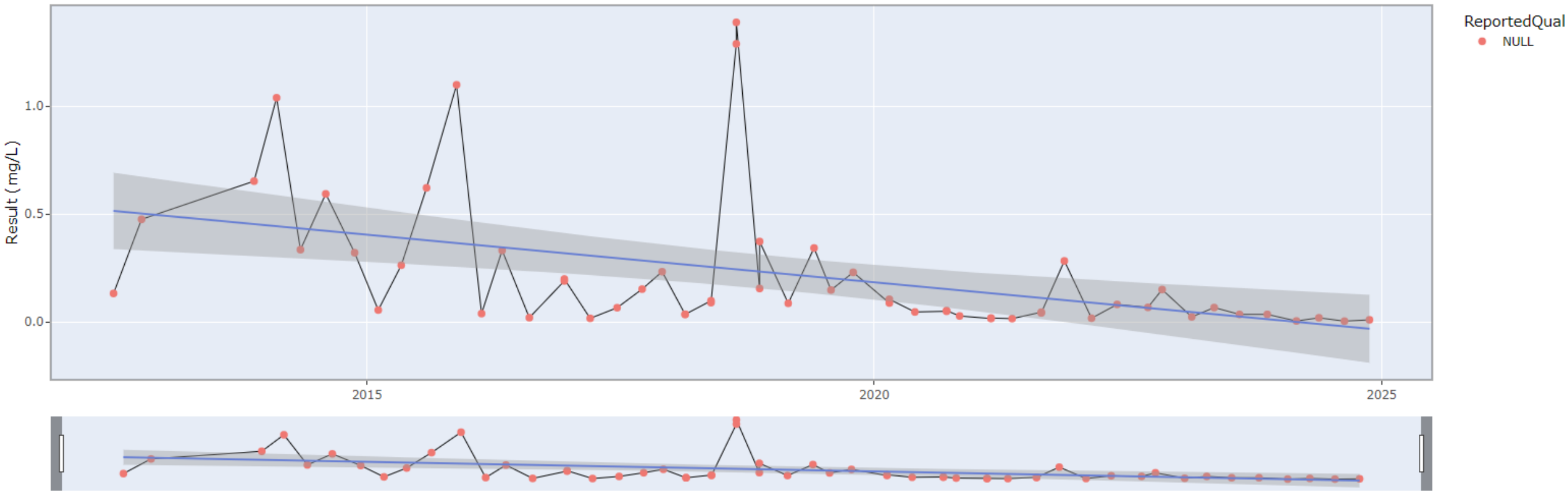
Start: 2012-07-03

End: 2024-11-18

Trend Result

Decreasing Trend

Trend test for Toluene at MW-1



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-4.99	0.00	56	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	2.39	0.59	4.06	0.00
CollectionDate	-0.00	0.00	-3.69	0.00

Date Range

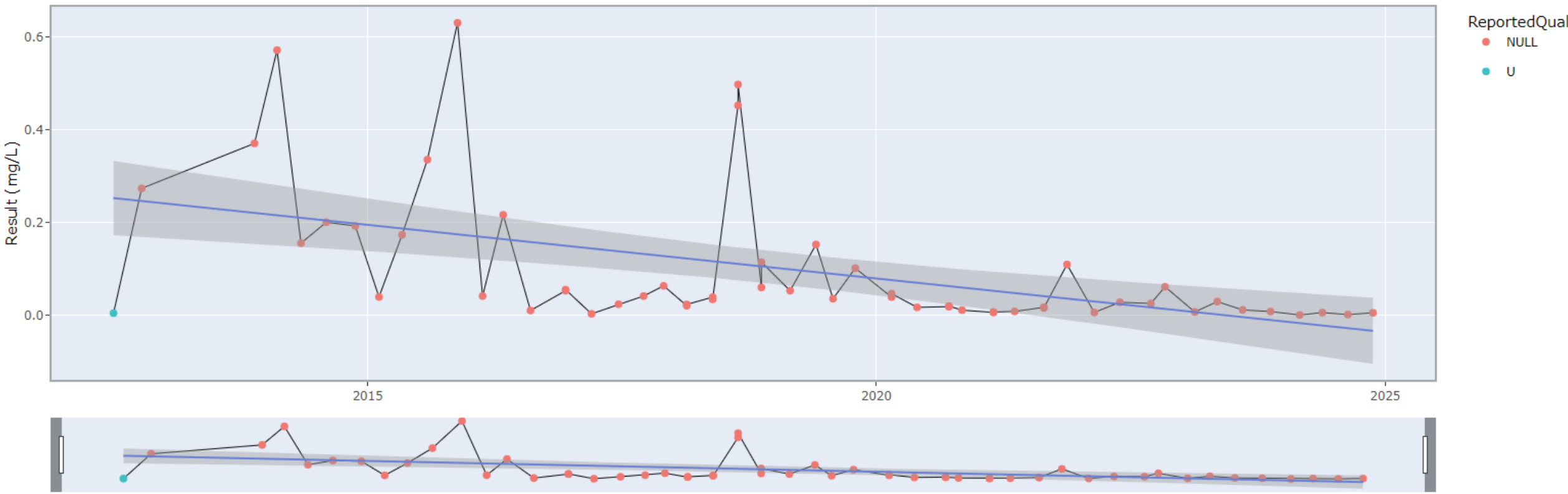
Start: 2012-07-03

End: 2024-11-18

Trend Result

Decreasing Trend

Trend test for Ethylbenzene at MW-1



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-5.01	0.00	56	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	1.24	0.27	4.65	0.00
CollectionDate	-0.00	0.00	-4.29	0.00

Date Range

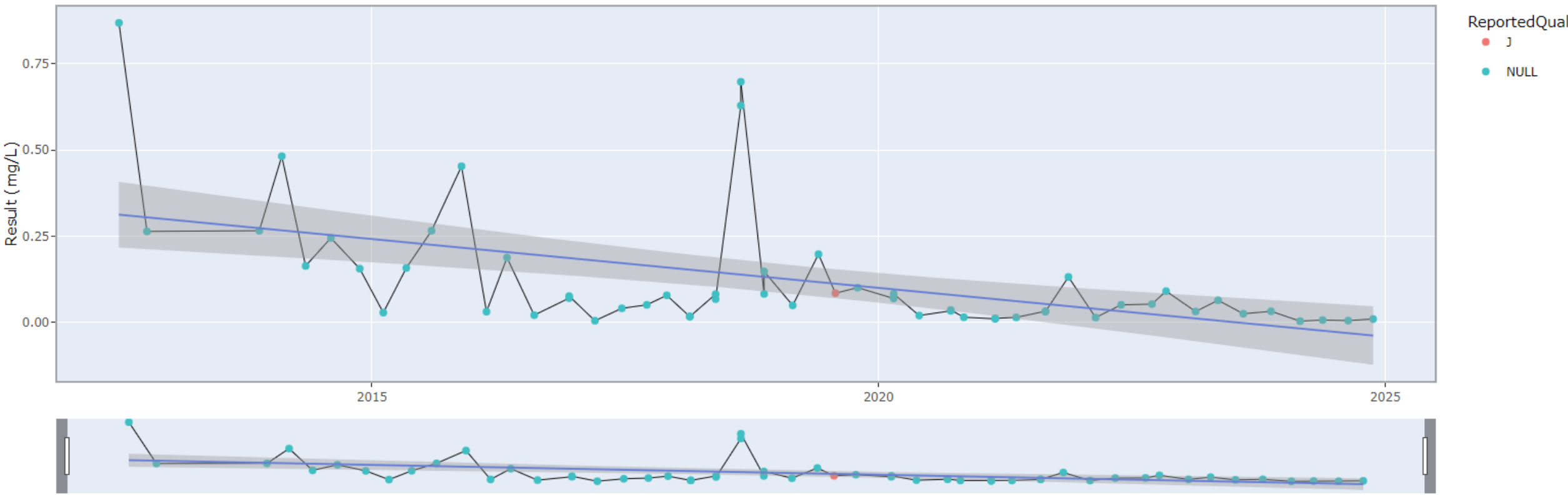
Start: 2012-07-03

End: 2024-11-18

Trend Result

Decreasing Trend

Trend test for Xylenes (total) at MW-1



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-4.59	0.00	56	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	1.52	0.32	4.79	0.00
CollectionDate	-0.00	0.00	-4.41	0.00

Date Range

Start: 2017-11-30

End: 2024-11-18

Trend Result

Decreasing Trend

Trend test for Benzene at MW-10

Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-2.13	0.03	32	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.11	0.05	2.21	0.03
CollectionDate	-0.00	0.00	-2.08	0.05

Date Range

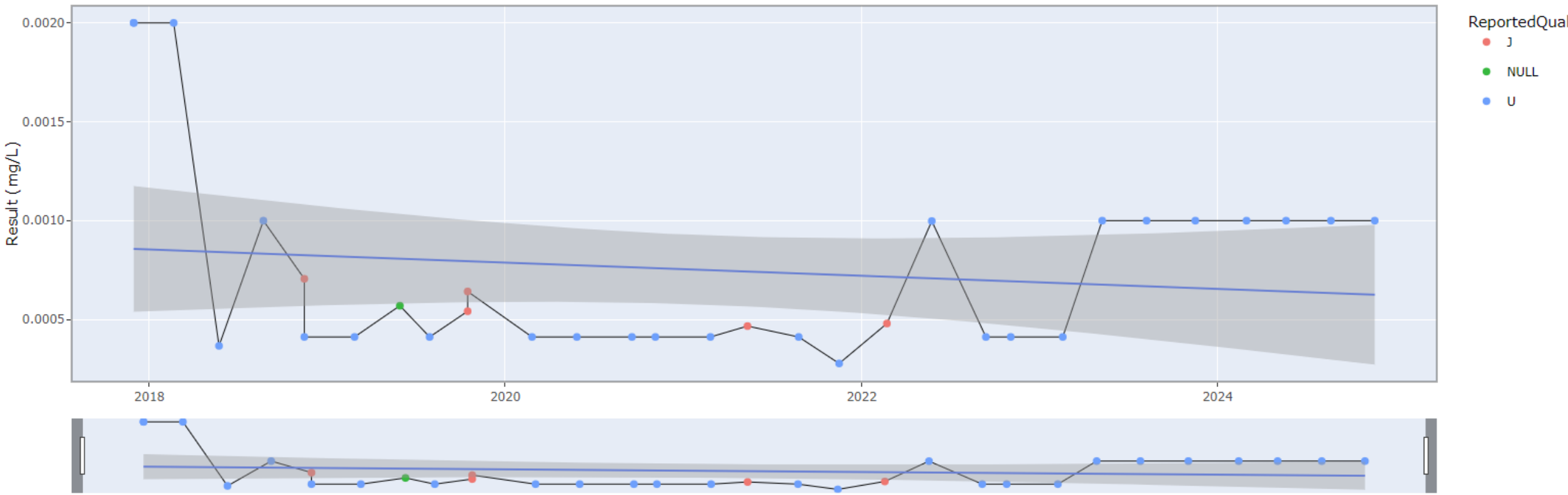
Start: 2017-11-30

End: 2024-11-18

Trend Result

>50% Non Detect

Trend test for Toluene at MW-10



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
0.51	0.61	32	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.00	0.00	1.19	0.24
CollectionDate	-0.00	0.00	-0.83	0.41

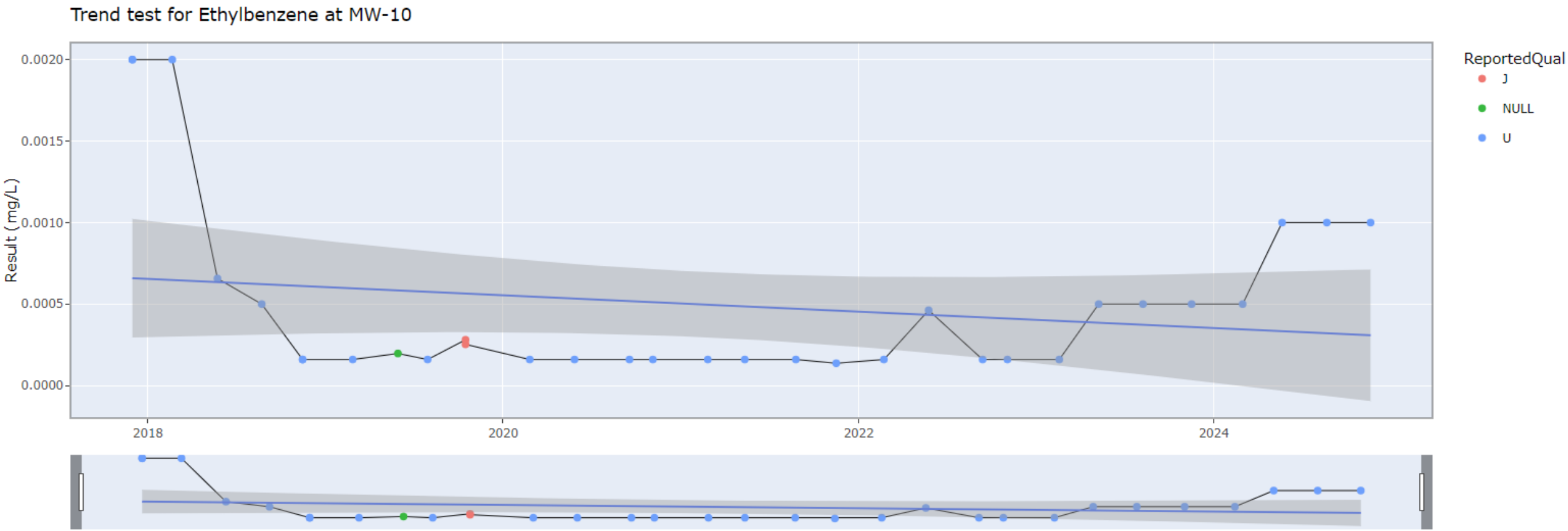
Date Range

Start: 2017-11-30

End: 2024-11-18

Trend Result

>50% Non Detect



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
0.10	0.92	32	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.00	0.00	1.30	0.20
CollectionDate	-0.00	0.00	-1.09	0.28

Date Range

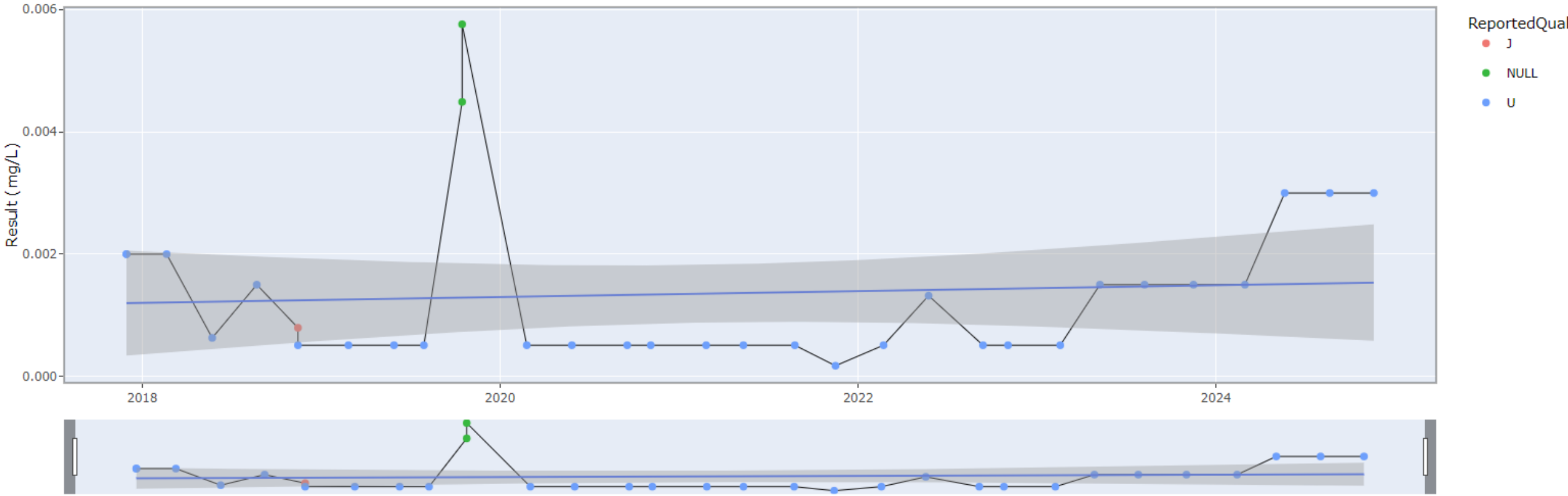
Start: 2017-11-30

End: 2024-11-18

Trend Result

>50% Non Detect

Trend test for Xylenes (total) at MW-10



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
0.38	0.70	32	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	-0.00	0.01	-0.20	0.84
CollectionDate	0.00	0.00	0.44	0.66

Date Range

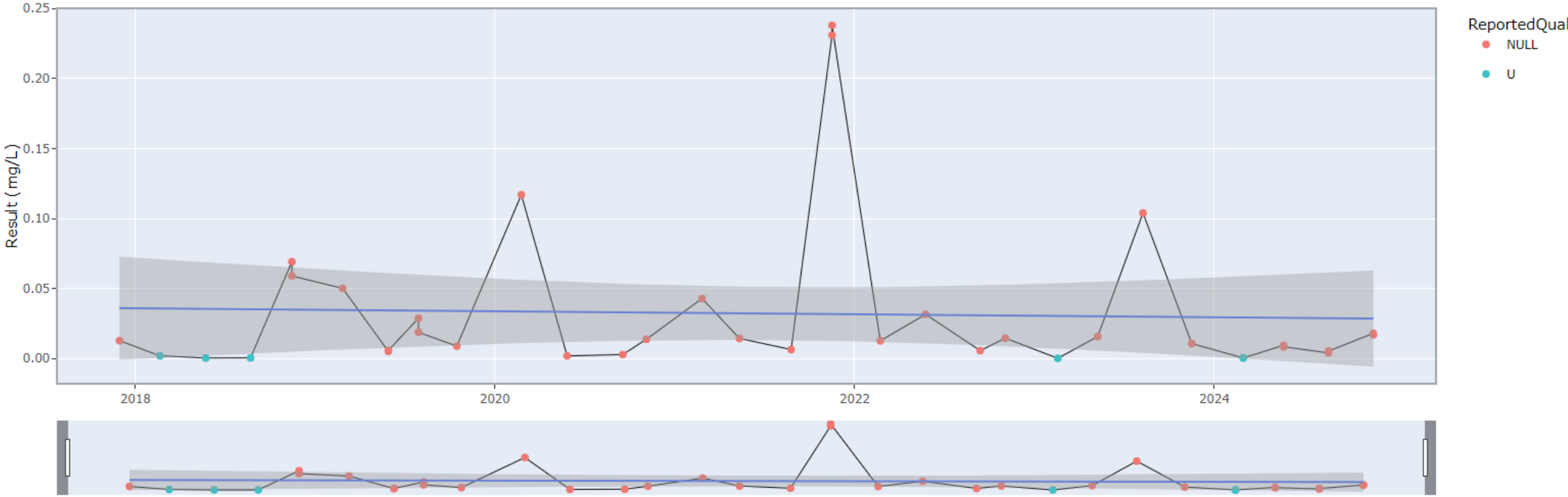
Start: 2017-11-30

End: 2024-11-19

Trend Result

No Trend

Trend test for Benzene at MW-11



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-0.24	0.81	37	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.09	0.22	0.40	0.69
CollectionDate	-0.00	0.00	-0.25	0.80

Date Range

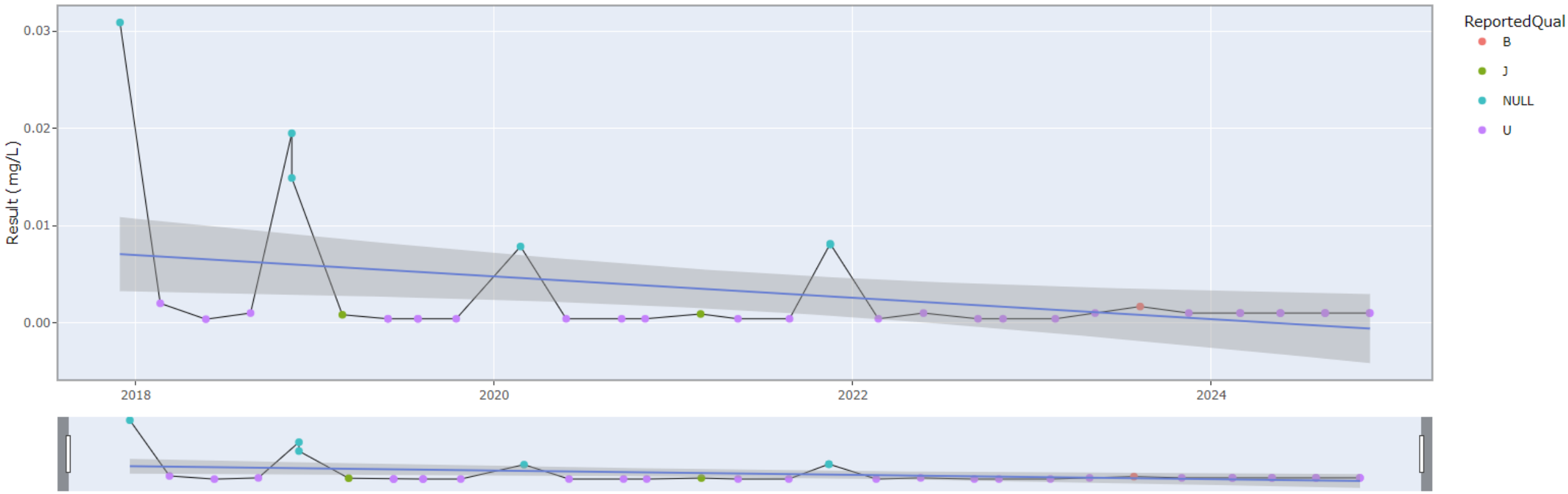
Start: 2017-11-30

End: 2024-11-19

Trend Result

>50% Non Detect

Trend test for Toluene at MW-11



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
0.75	0.45	37	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.06	0.02	2.63	0.01
CollectionDate	-0.00	0.00	-2.50	0.02

Date Range

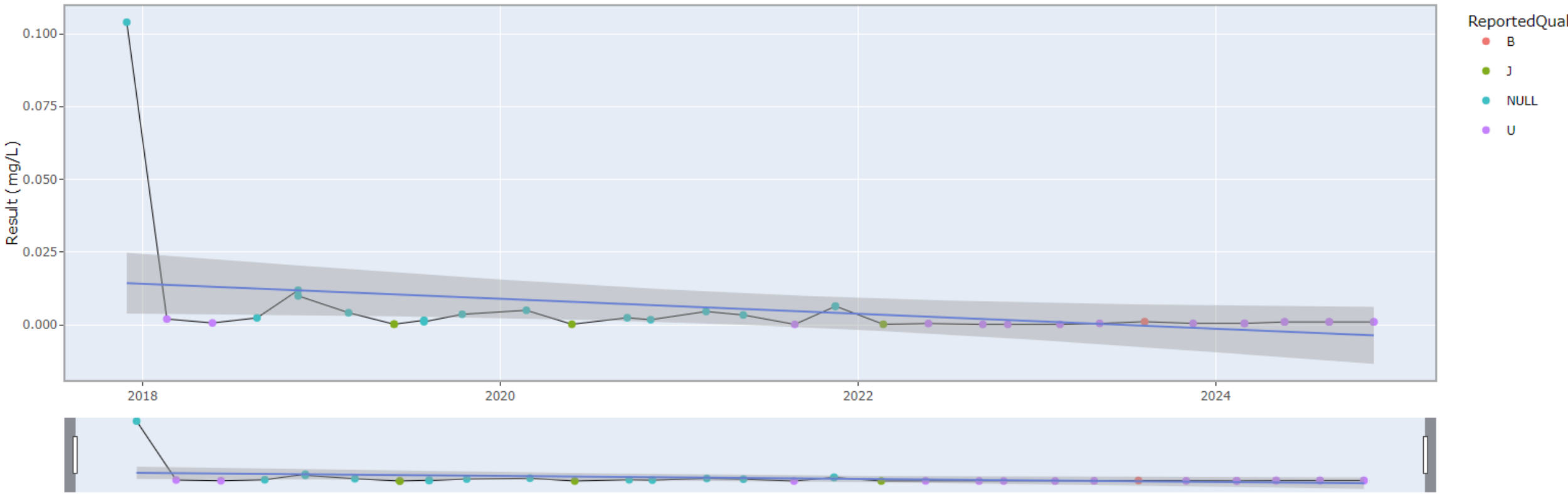
Start: 2017-11-30

End: 2024-11-19

Trend Result

Decreasing Trend

Trend test for Ethylbenzene at MW-11



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-2.06	0.04	37	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.14	0.06	2.20	0.03
CollectionDate	-0.00	0.00	-2.13	0.04

Date Range

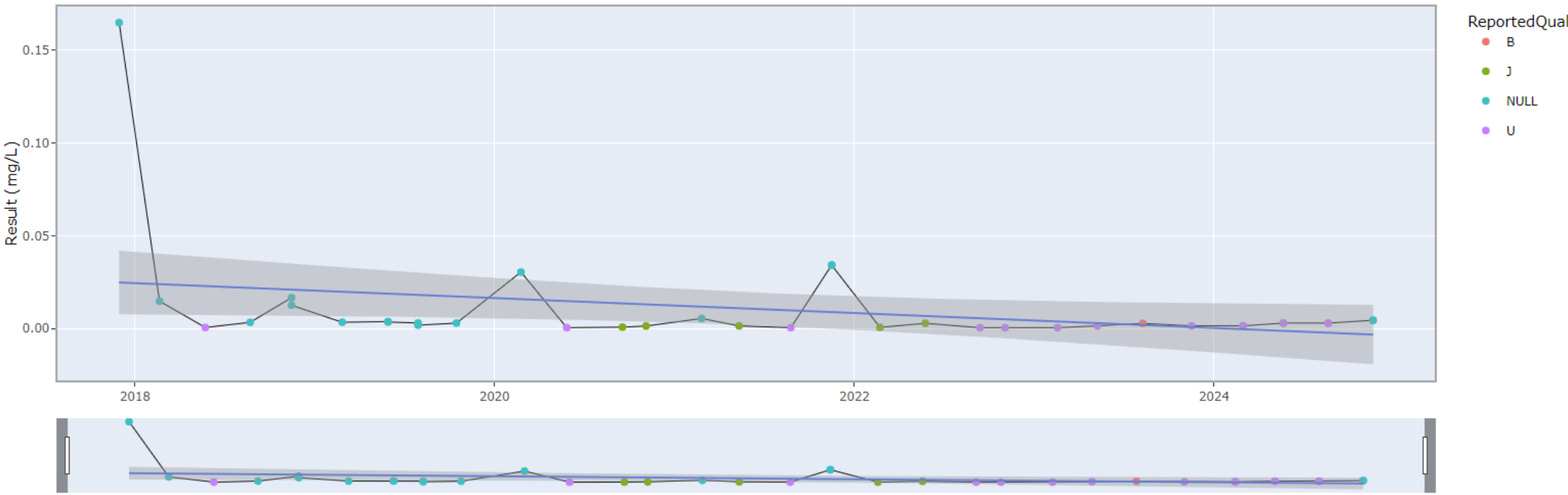
Start: 2017-11-30

End: 2024-11-19

Trend Result

No Trend

Trend test for Xylenes (total) at MW-11



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-1.23	0.22	37	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.22	0.10	2.13	0.04
CollectionDate	-0.00	0.00	-2.03	0.05

Date Range

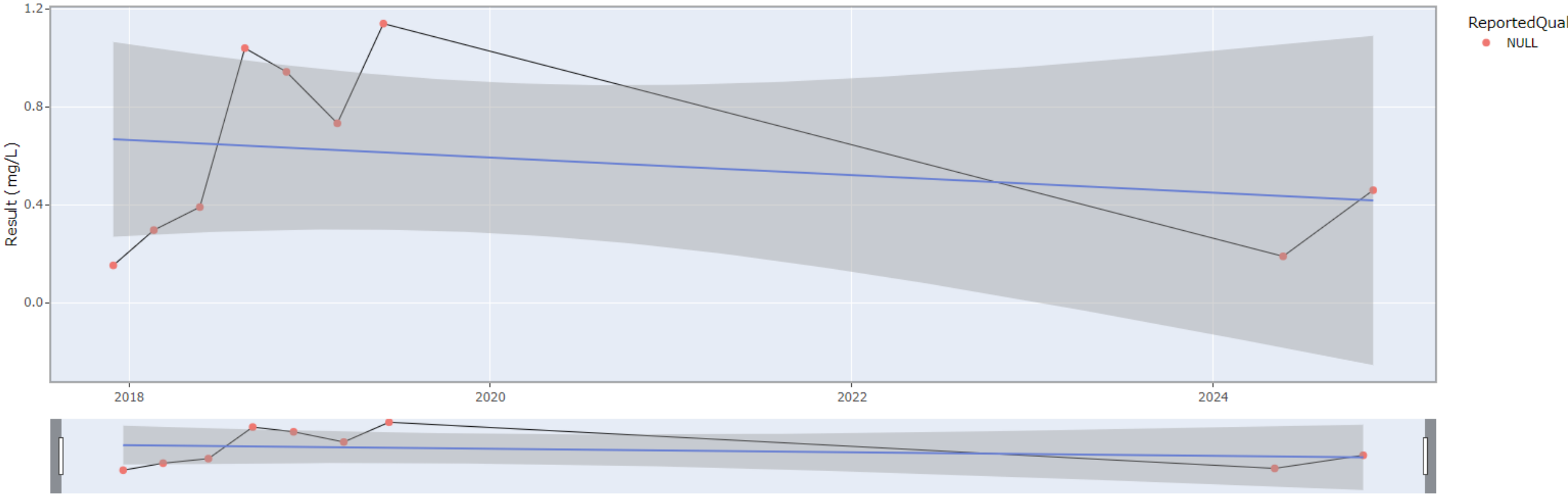
Start: 2017-11-30

End: 2024-11-19

Trend Result

No Trend

Trend test for Benzene at MW-12



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
0.94	0.35	9	Mann-Kendall trend test	two.sided

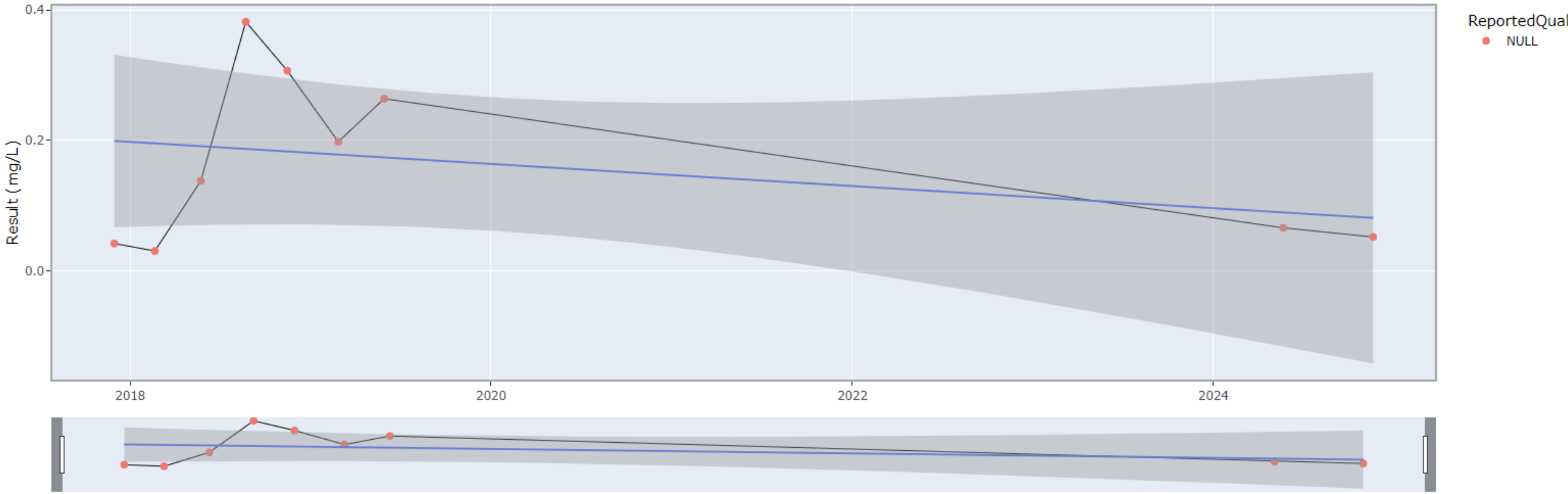
Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	2.39	2.57	0.93	0.39
CollectionDate	-0.00	0.00	-0.70	0.51

Date Range
Start: 2017-11-30
End: 2024-11-19

Trend Result
No Trend

Trend test for Toluene at MW-12



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
0.10	0.92	9	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	1.01	0.86	1.18	0.28
CollectionDate	-0.00	0.00	-0.99	0.35

Date Range

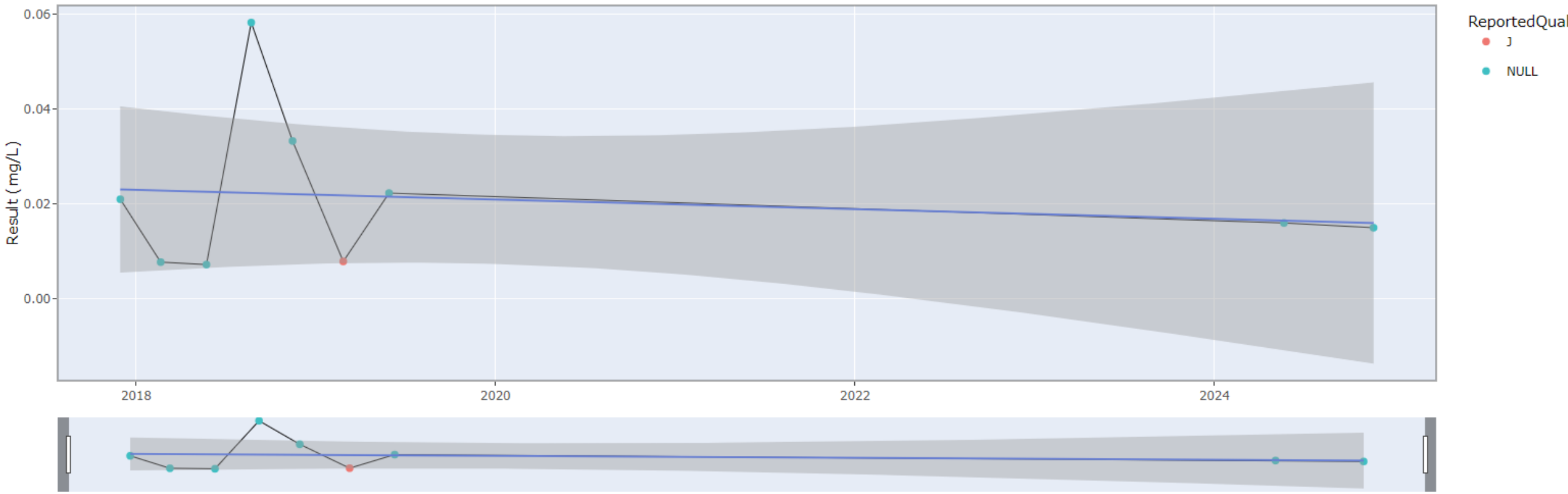
Start: 2017-11-30

End: 2024-11-19

Trend Result

No Trend

Trend test for Ethylbenzene at MW-12



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-0.00	1.00	9	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.07	0.11	0.63	0.55
CollectionDate	-0.00	0.00	-0.45	0.67

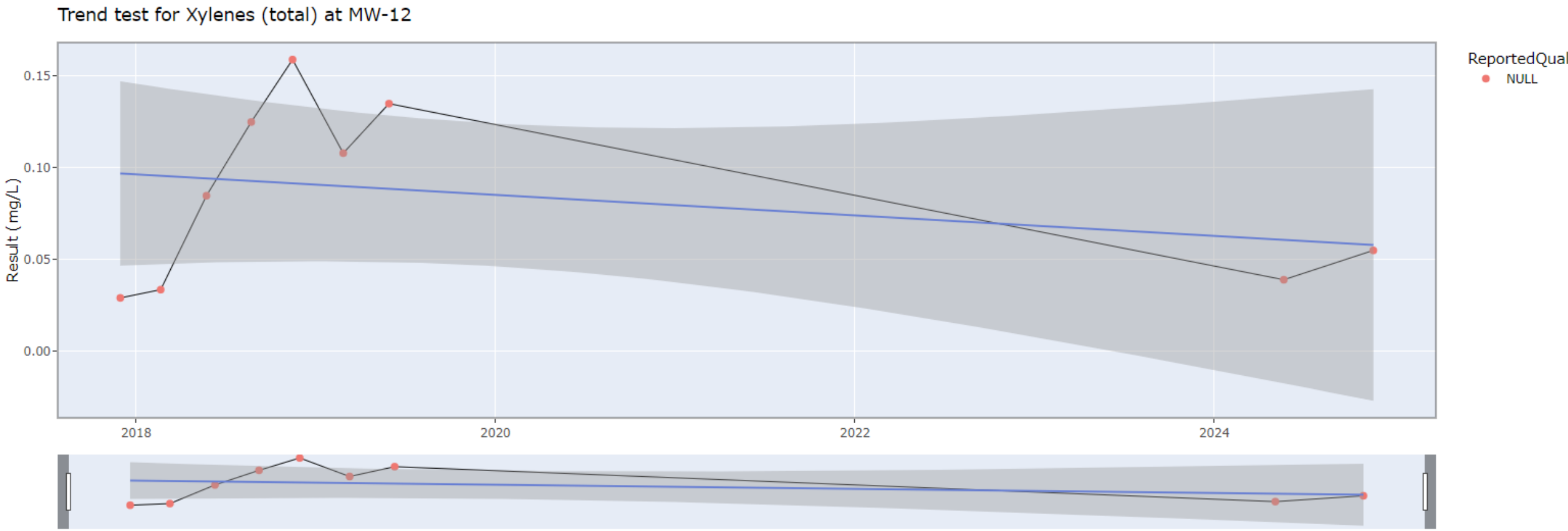
Date Range

Start: 2017-11-30

End: 2024-11-19

Trend Result

No Trend



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
0.94	0.35	9	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.36	0.33	1.12	0.30
CollectionDate	-0.00	0.00	-0.86	0.42

Date Range

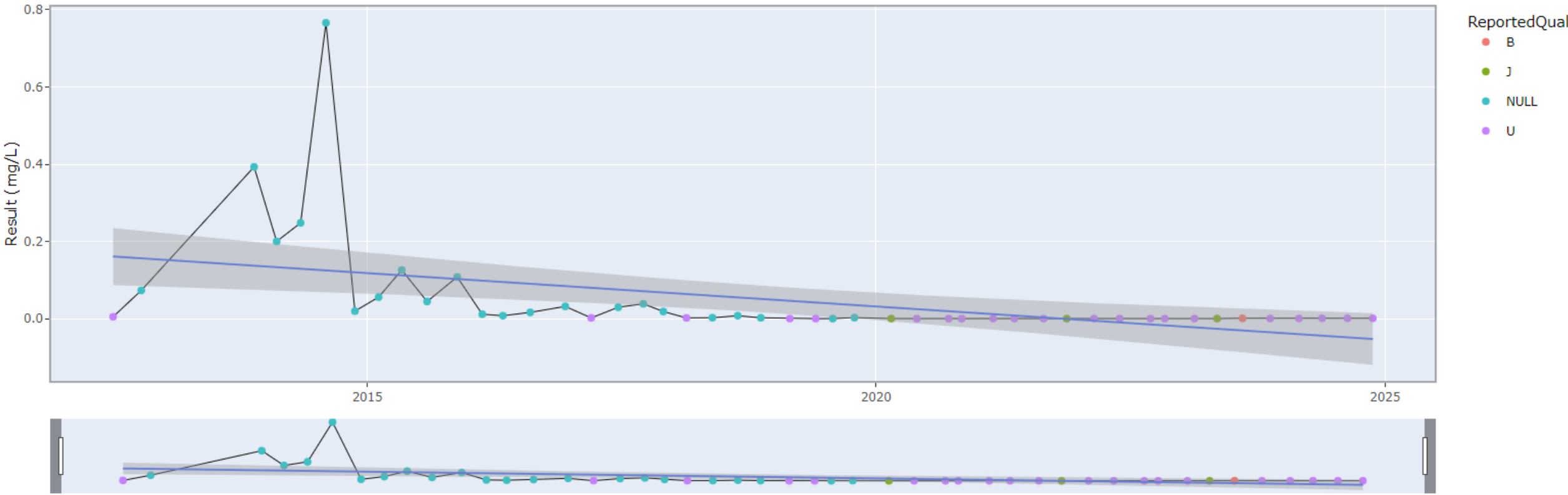
Start: 2012-07-03

End: 2024-11-18

Trend Result

Decreasing Trend

Trend test for Benzene at MW-2



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-5.38	0.00	47	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.89	0.24	3.69	0.00
CollectionDate	-0.00	0.00	-3.51	0.00

Date Range

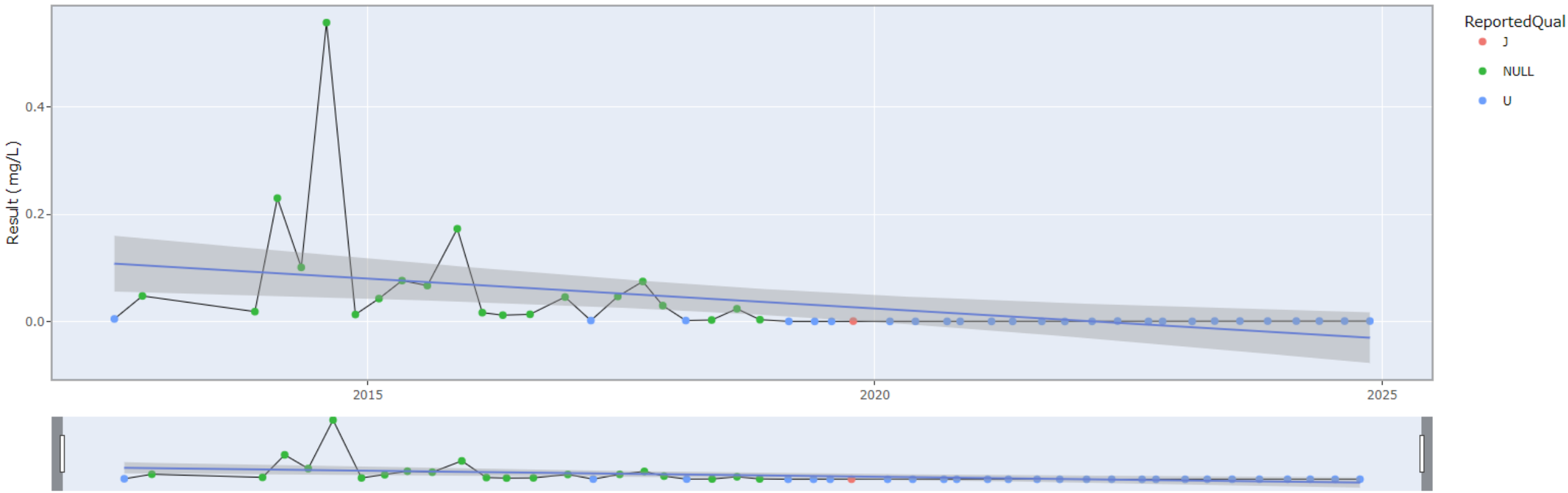
Start: 2012-07-03

End: 2024-11-18

Trend Result

>50% Non Detect

Trend test for Toluene at MW-2



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-4.74	0.00	47	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.58	0.17	3.41	0.00
CollectionDate	-0.00	0.00	-3.21	0.00

Date Range

Start: 2012-07-03

End: 2024-11-18

Trend Result

>50% Non Detect

Trend test for Ethylbenzene at MW-2

Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-4.73	0.00	47	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.31	0.10	3.03	0.00
CollectionDate	-0.00	0.00	-2.87	0.01

Date Range

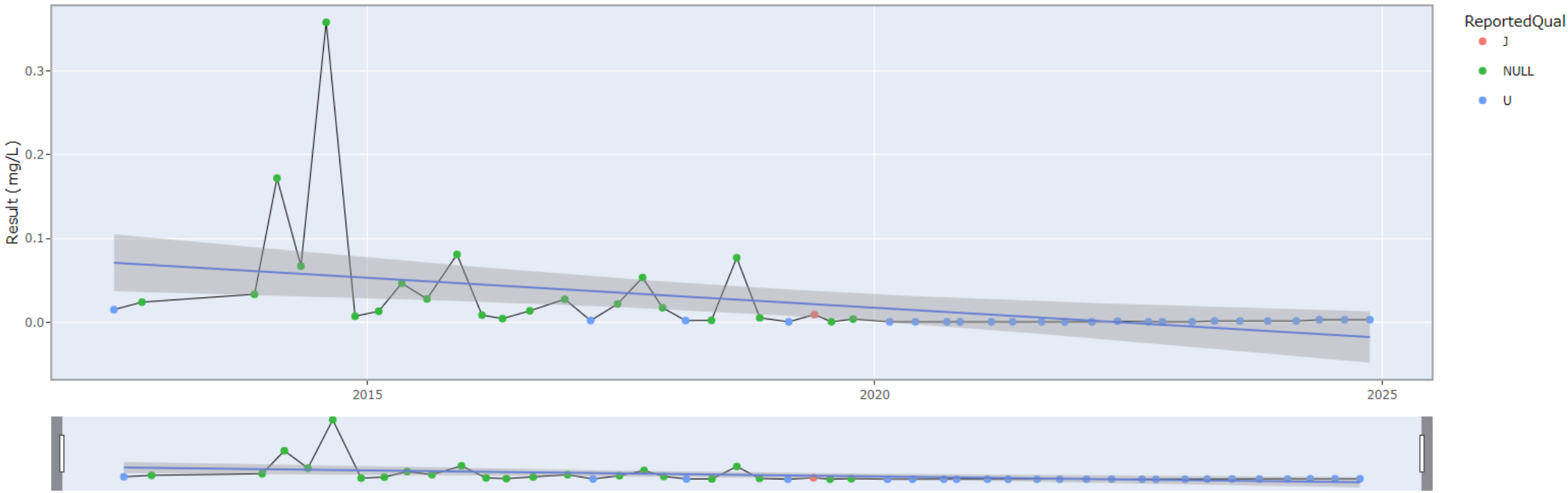
Start: 2012-07-03

End: 2024-11-18

Trend Result

>50% Non Detect

Trend test for Xylenes (total) at MW-2



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-4.67	0.00	47	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.38	0.11	3.37	0.00
CollectionDate	-0.00	0.00	-3.17	0.00

Date Range

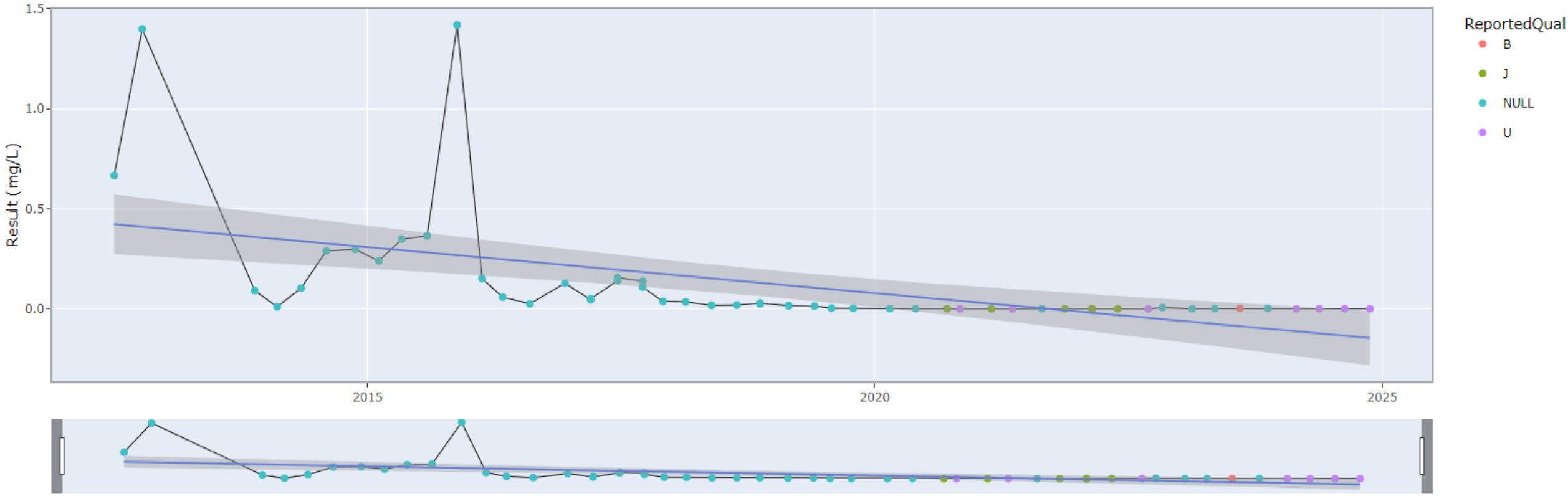
Start: 2012-07-03

End: 2024-11-18

Trend Result

Decreasing Trend

Trend test for Benzene at MW-3



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-6.81	0.00	53	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	2.38	0.50	4.78	0.00
CollectionDate	-0.00	0.00	-4.54	0.00

Date Range

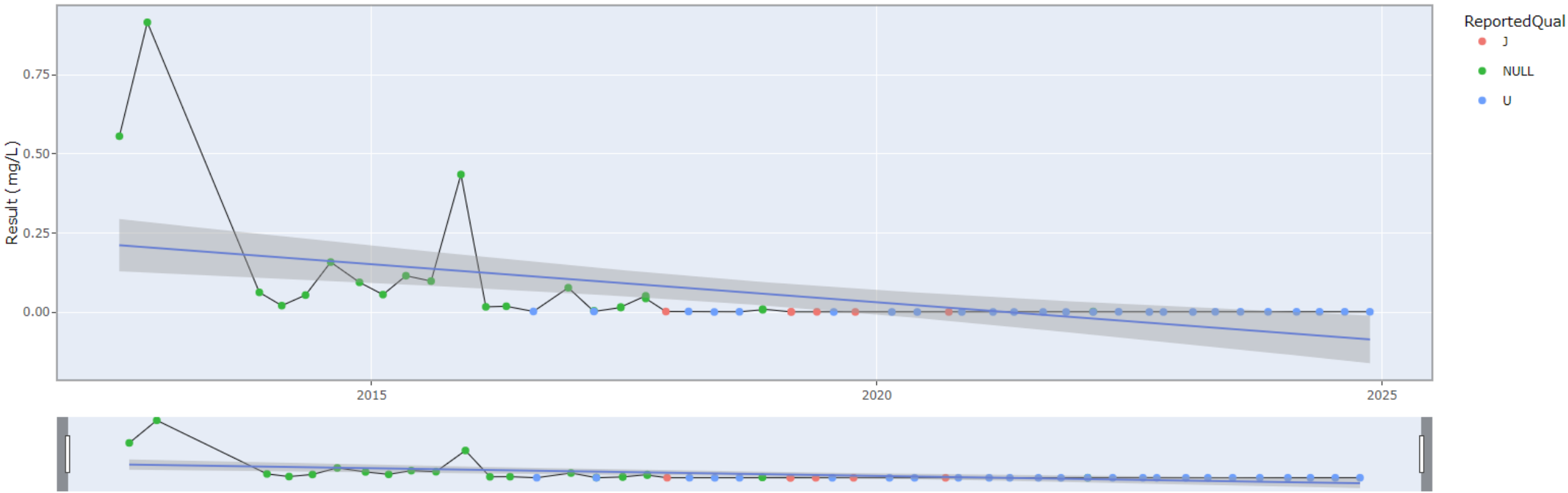
Start: 2012-07-03

End: 2024-11-18

Trend Result

Decreasing Trend

Trend test for Toluene at MW-3



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-5.82	0.00	53	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	1.23	0.28	4.48	0.00
CollectionDate	-0.00	0.00	-4.29	0.00

Date Range

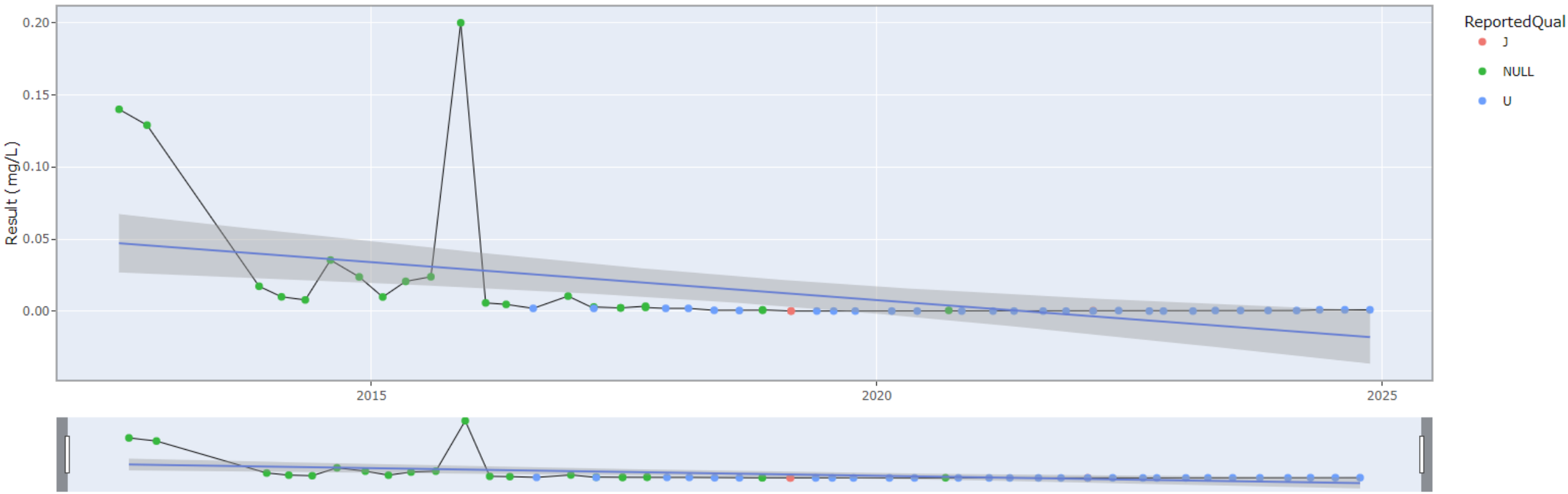
Start: 2012-07-03

End: 2024-11-18

Trend Result

>50% Non Detect

Trend test for Ethylbenzene at MW-3



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-6.13	0.00	53	Mann-Kendall trend test	two.sided

Linear Regression Test Results

term	estimate	std.error	statistic	p.value
(Intercept)	0.27	0.07	4.02	0.00
CollectionDate	-0.00	0.00	-3.84	0.00

Date Range

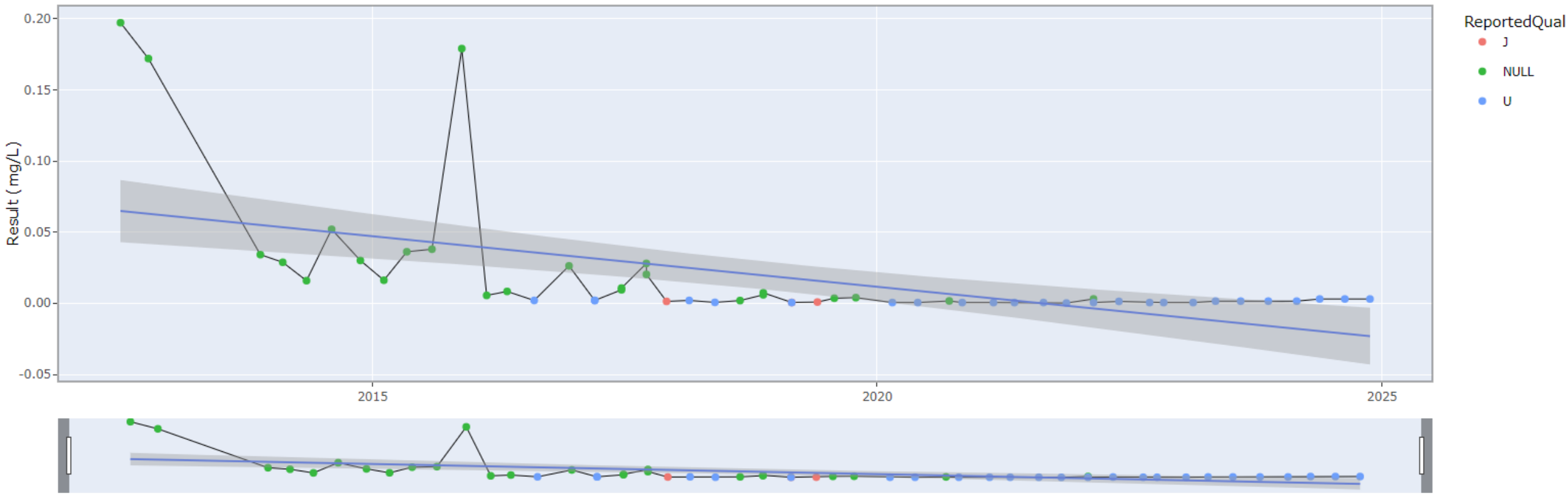
Start: 2012-07-03

End: 2024-11-18

Trend Result

Decreasing Trend

Trend test for Xylenes (total) at MW-3



Statistical Summary

Mann Kendall Test Results

statistic	p.value	parameter	method	alternative
-5.51	0.00	53	Mann-Kendall trend test	two.sided

Linear Regression Test Results

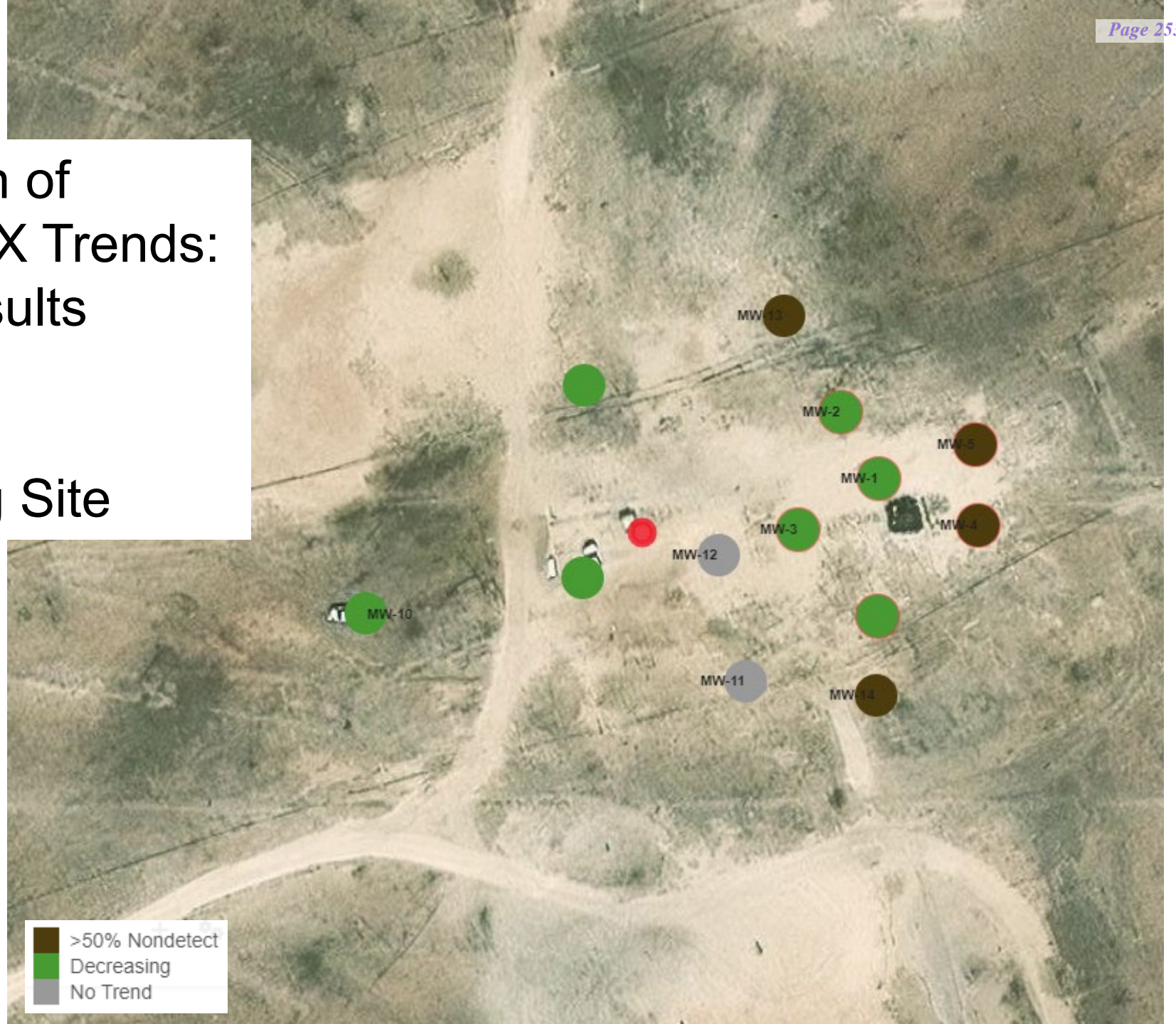
term	estimate	std.error	statistic	p.value
(Intercept)	0.37	0.07	5.04	0.00
CollectionDate	-0.00	0.00	-4.80	0.00

Attachment D

M-K Site Plan

Spatial Distribution of Groundwater BTEX Trends: Mann-Kendall Results 2012-2024

Chevron Grayburg Site



Released to Imaging: 10/8/2025 2:00:48 PM

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

COMMENTS

Action 498865

COMMENTS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 498865
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

COMMENTS

Created By	Comment	Comment Date
csmith	Returned to OCD Review, Site map is attached, rereview and process.	10/8/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	34053
	Action Number: 498865
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
shanna.smith	OCD records indicate that an approved Stage 2 plan is not on file. Pursuant to 19.15.30 NMAC, Plains must submit a Stage 2 Abatement Plan by November 5, 2025. Alternatively, if a Stage 2 Abatement Plan has been approved by OCD, provide a copy of Stage 2 Plan by November 5, 2025, so OCD can update our online records.	10/8/2025
shanna.smith	Continue submitting quarterly monitoring and sampling reports into OCD permitting.	10/8/2025
shanna.smith	Continue to sample for BTEX EPA Method 8260 for all applicable monitoring wells.	10/8/2025
shanna.smith	Monitor wells MW-2, MW-5, and MW-13 may be removed from groundwater monitoring and sampling plan. These wells will not be P&A and will remain in place.	10/8/2025
shanna.smith	Continue annual PAH analysis in monitoring well MW-8.	10/8/2025
shanna.smith	Pursuant to 20.6.2.3103 A(3) continue LNAPL recovery in monitor well MW-7. Include recovery method and schedule in Stage 2 Abatement Plan.	10/8/2025
shanna.smith	2024 AGWMR approval does not relieve the owner/operator of responsibility for compliance with OCD, federal, state, or local laws and/or regulations.	10/8/2025