

Rocky Top Environmental Limited Purpose Landfill 2025 Annual Groundwater Monitoring Report

Prepared for
DTG Recycling



March 2026

Parametrix

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Prepared for

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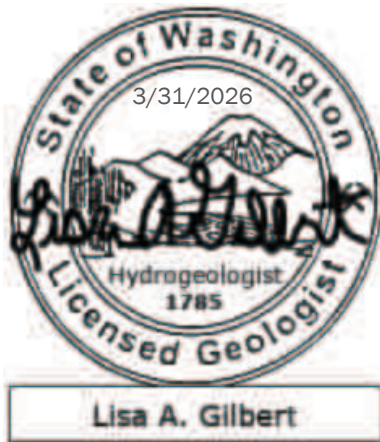
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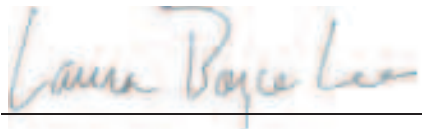
The technical material and data contained in this document were prepared under the supervision and direction of the undersigned, whose seal, as a professional hydrogeologist licensed to practice as such, is affixed below.



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Acronyms and Abbreviations

µmhos/cm	micromhos per centimeter
AA	Alluvial Aquifer
AO	Agreed Order
bgs	below ground surface
COPC	chemical of potential concern
CULs	cleanup levels
CUSUM	cumulative sum
DA	Deep Aquifer
DTG	DTG Recycling
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
Facility	41 Rocky Top Road in Yakima, Washington
ft	feet
GWQS	Groundwater Quality Criteria (Chapter 173-200 WAC)
h	control limit for CUSUM comparisons
HWA	HWA GeoSciences, Inc.
IAWP	Interim Action Work Plan
IZ	Interflow Zone
LPL	Limited Purpose Landfill
MCLs	Maximum Contaminant Levels (Chapter 246-290 WAC)
meq/L	milliequivalents per liter
mg/L	milligrams per liter
MRF	Materials Recovery Facility
MTCA	Model Toxics Control Act (Chapter 173-340 WAC)
PCS	Petroleum-contaminated soil
PFAS	Per- and polyfluoroalkyl substances
PFOA	Perfluorooctanoic acid
RI	remedial investigation

Acronyms and Abbreviations (continued)

RL	reporting limit
SA	Shallow Aquifer
SAP	Sampling and Analysis Plan
SCL	Shewhart Control Limit
SVOC	semi-volatile organic compound
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
UPLs	upper prediction limits
VOCs	volatile organic compounds
WAC	Washington Administrative Code
YHD	Yakima Health District
YRCAA	Yakima Regional Clean Air Agency

1. Introduction

This report presents the results of the 2025 routine environmental monitoring completed at the Rocky Top Environmental Limited Purpose Landfill (LPL) located at 41 Rocky Top Road in Yakima, Washington (Facility). The Facility is owned and operated by DTG Recycling (DTG). Figure 1 shows the overall location of the Facility. Figure 2 shows the details of the Facility including monitoring well locations, lined and unlined cells, the leachate pond, and other operations.

1.1 LPL Description

The Facility was permitted for sand and gravel mining operations beginning in 1983. An additional special use permit was issued in 1987 allowing establishment of an asphalt plant and increasing mining capacity. In 1988, Yakima Health District (YHD) permitted disposal of demolition waste within surface mining pits. In 1991, the Facility permit was modified to include acceptance of petroleum-contaminated soil (PCS) remediation and the reuse of treated PCS as aggregate for asphalt and for use as cover fill material for the demolition waste. In 1997, the Facility was later permitted to operate as an unlined construction, demolition, and land-clearing debris landfill (formerly known as Anderson Rock and Demolition Pits) under Chapter 173-304 Washington Administrative Code (WAC). The Facility was reclassified as an LPL in 2007 under Chapter 173-350 WAC, with the southern expansion area permitted in 2015. The LPL accepted treated PCS that was stockpiled in a separate area on the northeast portion of the Facility and managed until soil concentrations were below the Model Toxics Control Act (MTCA) Method A cleanup levels (CULs) for unrestricted land use. Once soils in the stockpiles were below MTCA CULs, they were used as daily cover in the LPL following approval from YHD.

In October 2019, DTG acquired the Facility from Ron Anderson and overtook operations of the LPL. Phase 1 is the historical unlined fill area (Figure 2). Filling of Phase 1 continued through 2022, and then waste was placed in a permitted unlined expansion cell south of Phase 1. It was discovered that the area had hydrogeologic physical conditions differing from those estimated for the original permitting. This area became known as the temporary fill area and DTG began plans for a lined expansion cell (Phase 2). Waste placement in the temporary fill area continued through June 2023 when the Facility disposal permit renewal for the LPL under Chapter 173-350 WAC was denied, primarily due to the need for an air permit from the Yakima Regional Clean Air Agency (YRCAA) which was obtained in March 2024. By September 2024, DTG had completed construction of Phase 2 in the southern portion of the Facility, which includes a liner system, leachate collection system, and leachate pond (Figure 2). The Facility permit was renewed in December 2024 after meeting YRCAA and YHD requirements (YHD 2024) and DTG began placing LPL waste in Phase 2 and moving waste from the temporary fill area into the new lined cell. The temporary fill area waste relocation was completed in August 2025.

1.1.1 MTCA Site

In September 2022, the Washington State Department of Ecology (Ecology) listed the northwest slope of Phase 1 as a MTCA cleanup site related to ambient outdoor air found above MTCA CULs for benzene and naphthalene (Ecology 2022). DTG and Ecology negotiated an Agreed Order (AO) that was executed in February 2023. A subsurface fire beneath the northwest slope of the LPL was confirmed in March 2023. Based on the potential contaminants related to the fire, Ecology requested the installation of additional downgradient monitoring wells. These wells were installed in 2024 related to the MTCA limited remedial investigation (RI). Ecology also requested additional chemicals of potential concern (COPCs) in groundwater to be investigated.

Groundwater monitoring related to MTCA releases includes analysis for additional parameters that are suspected to be present related to the MTCA site and are being reported separately. This includes analysis of per- and polyfluoroalkyl substances (PFAS), dioxins/furans, semi-volatile organic compounds (SVOCs) including carcinogenic polycyclic aromatic hydrocarbons, and U.S. Environmental Protection Agency (EPA) priority pollutant metals.

1.1.2 Additional Facility Operations

A materials recovery facility (MRF) previously operated in the central portion of the Facility, adjacent to the LPL. In 2023, YHD required the MRF to develop a covered receiving area, which was installed in 2024. Additional MRF area requirements include an impervious receiving floor and leachate controls. DTG is in the process of designing and constructing these systems for the MRF and activities have ceased until the upgrades can be completed. Figure 2 displays the MRF location that operated partially through 2025. An active rock quarry also operates in the western portion of the Facility and is permitted separately (Figure 2). A former PCS remediation area is located on the eastern portion of the Facility. The former PCS remediation area is currently undergoing closure with YHD. Dry, 10-foot monitoring wells were installed around the PCS remediation area in 1991 and were decommissioned in August 2025.

2. Physical Setting

The Facility is located northwest of Yakima in Section 10, Township 13 North, Range 17 East, Willamette Meridian, in Yakima County, Washington. The area of the LPL is within the Yakima fold and thrust belt of the Columbia Plateau which is a series of east-west trending thrust faults and folds on the westernmost portion of the Columbia Plateau. The anticlines are usually formed over a thrust fault and typically form topographic ridges. The Facility is located on the northeast flank of Cowiche Mountain, which is an east-west trending anticlinal structure that extends from Cowiche Mountain to under the City of Yakima and forms Yakima Ridge to the east of the LPL. The axis of the anticline is located approximately 1,600 feet (ft) to the south of the LPL (Bentley and Campbell 1983).

2.1 Topography

The topography of the Facility slopes northerly from an elevation of approximately 2,000 ft above sea level on the southern border of the Facility down to approximately 1,800 ft above sea level on the northern border of the Facility. The Facility has an average slope, from southwest to northeast, of approximately 15% to 25%.

2.2 Soils

Facility soils consist of silt loams up to 14 inches thick, derived from Ellensburg Formation undifferentiated deposits and breakdown of basalt bedrock. In some areas, Facility surface soils are composed solely of weathered basalt fragments. The thickness of unconsolidated soil above bedrock varies up to approximately 14 ft. but may be as much as 35 ft in some areas due to re-grading.

2.3 Geology

Below the surface soils of the Ellensburg Formation undifferentiated deposits, the geology of the Facility is comprised of Columbia River Basalt bedrock with sedimentary interbeds. The Yakima Basalt Subgroup comprises the uppermost (youngest) portion of the regional Columbia River Basalt

Group and includes, from youngest to oldest, the Saddle Mountain Basalt, the Wanapum Basalt, and the Grande Ronde Basalt.

Locally, the Saddle Mountain Basalt is absent. The Ellensburg Formation is interbedded with the Yakima Basalt subgroup and is comprised of surficial formations of silt above bedrock as well as a significant interbed, known as the Vantage member of the Ellensburg Formation (Vantage Interbed).

The surface geology of the LPL (Bentley and Campbell 1983) is mapped as the Kelley Hollow flow of the Frenchman Springs Member of the Wanapum Basalt with a thin band of the Vantage Interbed separating the Wanapum Basalt (north) from the Grande Ronde Basalt (south). Mining has since uncovered large portions of the Vantage Interbed at the Facility including within the previous temporary fill area.

The Wanapum Basalt is the shallow bedrock below the Facility, and is comprised of massive basalt, fractured basalt, columnar zones, pillow basalt, and palagonite. The thickness varies across the Facility but has been identified to be up to 260 ft thick at the Facility. The Wanapum Basalt is underlain by the Vantage Interbed of the Ellensburg Formation. The Vantage Interbed consists of sandstone, silt, and sand lenses and is approximately 30 to 35 ft thick. Below the Vantage Interbed is the Grande Ronde Basalt consisting of massive, columnar, and fractured basalt. The Grande Ronde Basalt has been observed up to 900 ft thick below the Facility.

2.4 Hydrogeology

Two aquifers are currently monitored below the LPL including a Shallow Aquifer (SA) and Interflow Zone (IZ) located within the Columbia River Basalt bedrock. There is also a Deep Aquifer (DA) occurring in the basalt that was monitored for four quarters in 2023. The SA and DA are the primary drinking water aquifers for neighboring Group B and domestic wells.

The basalt is dipping northerly at the Facility due to the Cowiche Mountain anticline. The natural dip places the SA as the first groundwater unit below the northern portion of the Facility and the IZ as the first groundwater unit below the southern portion of the Facility. There is an Alluvial Aquifer (AA) north and downgradient of the Facility within the Cowiche Valley that is the ultimate discharge point of the SA. The AA is locally up to 350 ft thick based on well logs from Ecology.

The SA occurs within the bottom flow zone of the Wanapum Basalt, saturated portions of the Vantage Interbed, and saturated portions of the flow top zone of the Grande Ronde basalt. The SA is partially to fully confined. Seven monitoring wells have been completed in the SA downgradient of the Facility. MW-2S and MW-3S were completed between 2005 and 2007 and background monitoring events were conducted in 2008 and 2009. MW-4S was completed in July 2022 and background monitoring events were completed through 2024. MW-5S and MW-6S were completed in 2024 with background monitoring events in 2025. MW-1S and MW-11S were completed in 2025 and background monitoring is being conducted in 2026 and 2027.

The IZ occurs approximately 150 to 200 ft below the Grande Ronde-Vantage Interbed interface. The IZ is fully confined. Four monitoring wells have been completed in the IZ, one upgradient and three downgradient. MW-7D, MW-8D, MW-9D, and MW-10D were completed in 2024 and background monitoring was conducted on an accelerated basis in 2025.

The DA occurs approximately 200 to 400 ft below the IZ within the Grande Ronde Basalt. The DA is fully confined with water levels approximately 200 ft above the source zone. The DA was monitored for four quarters in 2023 with samples collected from the Bertheas '95 well located east of the Facility (Figure 2). No water levels could be measured in the well; however, the log indicates water

levels were 600 ft below ground surface (bgs), or approximately elevation 1,325 ft above sea level. The Bertheas '95 well was decommissioned in 2024 after a variance request to convert the well into a monitoring well was denied by Ecology.

2.4.1 Recharge and Discharge

The Yakima area (including the LPL area) is classified as a “zone of little groundwater recharge potential from direct precipitation sources” (Myers et al 1979), which is the lowest of three relative groundwater recharge classifications in their study. Recharge to groundwater in the basalt aquifers occurs primarily between Cowiche Mountain and Bethel Ridge to the northwest, with some recharge north of the sub-basin boundary (US Army Corps of Engineers 1978). The reach of Yakima River east of the LPL is also classified as a suspected recharge area (Myers et al 1979). The SA in the Wanapum Basalt and IZ within the Grande Ronde Basalt discharge to the AA at lower elevations to the north, and ultimately to Cowiche Creek, which flows into Naches River, and then into the Yakima River. The DA in the Grande Ronde Basalt likely continues below the AA north of the facility and discharges to AA within the Yakima River Valley to the east-northeast.

2.4.2 Groundwater Flow

Shallow Aquifer

The groundwater gradient for the SA is predominantly northerly following the topographic slope and dip of the Vantage Interbed. In March 2022, HWA Geosciences (HWA) measured groundwater depths in 18 private residential and orchard wells surrounding the LPL completed in the SA, as well as in DTG monitoring wells MW-2S and MW-3S. Methods and results are detailed in the Groundwater Gradient Study, DTG/Anderson Pit Limited Purpose Landfill, Yakima, Washington (HWA 2022b). The interpreted groundwater elevation contour maps showed hydraulic gradients of 0.07 to 0.17 ft/ft, or approximately 370 to 900 ft per mile, with flow generally to the north, downslope and down-dip, as expected.

The gradient from the existing monitoring well network shows the SA is steeper below the Facility (0.23 to 0.28 ft/ft) and flattens slightly further north where the SA meets the Cowiche Valley and is influenced by other shallower basalt interbeds (Parametrix 2025l).

Interflow Zone

The groundwater gradient for the IZ is predominantly northerly following the topographic slope and dip of the Grande Ronde basalt/anticline. The third quarter of 2024 was the first monitoring event where static water level elevations for the IZ were evaluated. The gradient has been observed to be northerly at approximately 0.20 ft/ft following topography and the dip of the anticline (Parametrix 2025e).

Deep Aquifer

Parametrix reviewed domestic well logs in the vicinity of the LPL to develop an approximate groundwater gradient map for the DA to support potential DA. The gradient map developed from the domestic wells (Parametrix 2023b) showed a similar approximately north-northwesterly gradient for the DA near the LPL at a rate of approximately 0.11 ft/ft, or approximately 600 ft per mile. The gradient map also demonstrated there is a local groundwater divide located 1,500 ft south of the LPL along the anticline axis of Cowiche Mountain.

2.4.3 Hydraulic Conductivity

Hydraulic conductivity has been evaluated by previous hydraulic testing (HWA 2015, 2022a; Parametrix 2025a). The average, low, and high hydraulic conductivities for the SA and IZ were presented in the updated Hydrogeologic Characterization Report (Parametrix 2025e). Average hydraulic conductivity for the SA was calculated to be 3.1 ft/day with a known range from 0.4 to 7.8 ft/day. For the IZ wells, the average hydraulic conductivity was calculated to be 2 ft/day with a range of 0.05 to 7.5 ft/day.

2.5 Surface Water

Surface water at the Facility is comprised of ephemeral drainages flowing north off Cowiche Mountain periodically towards Cowiche Creek located in the valley north of the Facility. Surface water for the Facility is generally captured and evaporated on the Facility through unlined surface water evaporation ponds and precipitation falling on the active phase is captured and evaporated in the leachate evaporation pond. The temporary closure implemented at the unlined Phase 1 does not have formal surface water management to mitigate precipitation infiltration.

3. Monitoring History

Groundwater monitoring for the LPL is completed quarterly for compliance with WAC 173-350-100 and permit requirements. Groundwater monitoring well locations at the LPL are shown on Figure 2. Table 1 summarizes the monitoring well details.

Well MW-2S was installed in December 2005. MW-3S was installed in September 2007. A third location, BH-1, was drilled in 2005 and was reported to be dry so no monitoring well was installed. Eight background monitoring events were conducted at MW-2S and MW-3S between August 2008 and August 2009 to establish baseline groundwater quality conditions. Background monitoring is described in the Groundwater Monitoring Report, Anderson Pit Limited Purpose Landfill, Yakima, Washington (HWA 2010). Since 2009, quarterly groundwater monitoring has been conducted at MW-2S and MW-3S and the results have been documented in annual reports. Quarterly groundwater reporting began in 2023.

Monitoring well MW-4S was installed in 2022 to update the hydrogeologic characterization and monitoring at the Facility (HWA 2022). It was initially sampled in October 2022 and has been monitored quarterly since installation. The initial results were presented in the 2022 annual report (Parametrix 2023a) and subsequent results were presented in quarterly and annual reports (Parametrix 2024a, 2025f).

The Bertheas '95 domestic well in the DA was sampled for four quarters in 2023 and results were presented in the 2023 quarterly and annual reports (Parametrix 2024a). The Bertheas '95 well was decommissioned in September 2024 and is no longer available for sampling.

In 2024, two new SA wells and four new IZ wells were completed below the Facility. The two new SA wells, MW-5S and MW-6S, were installed prior to the second quarter 2024. Four new IZ monitoring wells, MW-7D, MW-8D, MW-9D, and MW-10D, were installed prior to the third quarter 2024. Eight groundwater monitoring events were planned for the new wells to meet the permit requirements. Four expedited sampling events (A events) were completed in 2025 in addition to the routine quarterly monitoring (B events) and the six wells installed in 2024 were sampled every approximately 1.5 months to assist with establishing background. MW-1S and MW-11S were installed

in the second quarter of 2025 and added to the expedited monitoring program starting with the B event in the third quarter of 2025.

The Sampling and Analysis Plan (SAP) was updated in September 2024 (Parametrix 2024b) to reflect the revised statistical analysis approach for the groundwater monitoring program as well as to include information for the additional monitoring wells and sampling/monitoring the leachate pond for the Phase 2 lined cell. Leachate samples are collected annually during the first quarter event and the pond level and sump are checked quarterly. An additional MTCA-related groundwater SAP (Parametrix 2025b) was developed for required monitoring under the AO for additional contaminants.

Dedicated PFAS-free pumps have been installed in all the monitoring wells (Table 1). The results for MTCA-related contaminants are not included in this report and are presented in other reporting for the MTCA site as part of the AO.

3.1 Recent Changes

MW-1S and MW-11S were drilled and constructed northeast of Phase 1 and north of MW-3S in April and July 2025 (Parametrix 2025i). MW-11S was drilled to a depth of 241 ft bgs and constructed with 20 ft of screen from 219 to 239 ft bgs. MW-1S was drilled to a depth of 142 ft bgs and constructed with 20 ft of screen from 113 to 133 ft bgs. The wells were included in the routine monitoring program starting with the third quarter 2025 sampling events after the dedicated PFAS-free sampling pumps were installed. Hydraulic testing at MW-11S showed hydraulic conductivity slightly below the aquifer average at 0.3 ft/day. MW-1S was within the expected range for the aquifer (Parametrix 2025i). Figure 2 displays the location of the two new wells.

The leachate pond for Phase 2 is active and in use. Leachate was sampled during the 2025 first quarter event (Parametrix 2025h).

A Draft Interim Action Work Plan (IAWP) was developed for the AO in January 2026 (Parametrix 2026b). As part of the IAWP, the separate groundwater monitoring SAPs were combined for groundwater monitoring at the Facility and PFAS was added to all the SA monitoring wells for routine monitoring. Volatile organic compounds (VOCs) analyses were also added to monitoring wells MW-3S, MW-4S, and MW-6S. MTCA monitoring and routine detection monitoring will be reported jointly going forward.

The SA is in assessment monitoring under MTCA due to groundwater quality impacts observed in wells MW-3S, MW-4S, and MW-6S located downgradient of the unlined Phase 1. A limited Remedial Investigation was performed and groundwater quality impacts to the SA appear to be limited to the existing monitoring well network (Parametrix 2026c).

3.2 Objectives

This report documents the 2025 routine groundwater monitoring at the Rocky Top Environmental LPL. Reporting requirements, as required by the LPL operating permit and WAC 173-350-500, entail quarterly groundwater monitoring and submission of an annual groundwater monitoring report to the YHD and Ecology.

3.3 Compliance

If statistical analyses determine a significant increase over background (as described in Section 5.2.5), DTG will notify YHD and Ecology within 30 days of the evaluation finding. If the increase is not demonstrated to be attributable to a source other than the landfill, natural

variation in groundwater quality, or an error in sampling, analyses, or statistical evaluation, and the concentrations of constituents exceed the groundwater quality criteria established by Chapter 173-200 WAC, Water Quality Standards for Groundwaters of the State of Washington, DTG in consultation with YHD and Ecology, will determine additional measures.

Additional measures to be considered are to characterize the chemical composition of the release and the contaminant fate and transport characteristics by installing additional monitoring wells; assess and, if necessary, implement appropriate intermediate measures to remedy the release; and evaluate, select, and implement remedial measures as required by Chapter 173-340 WAC, MTCA, where applicable.

A suspected release from the LPL has been confirmed as part of an AO under MTCA. Additional monitoring wells downgradient of the suspected impacted monitoring wells were completed to determine the nature and extent of the contamination. As noted above, The SA is considered to be in assessment monitoring under MTCA related to confirmed impacts in wells MW-3S, MW-4S, and MW-6S. Additional downgradient monitoring wells (MW-2S, MW-5S, MW-1S, and MW-11S) are being used to evaluate the extent of the contamination. The remaining wells at the Facility remain in detection monitoring to confirm that impacts continue to be limited to the SA within the existing monitoring well network and to confirm there are no impacts related to operations of the active lined LPL permitted under Chapter 173-350 WAC.

4. Sampling and Analysis

The 2025 groundwater sampling and analysis was conducted in accordance with the SAP (Parametrix 2024b). Each quarterly sampling event was summarized in quarterly monitoring reports (Parametrix 2025h, 2025j, 2025m). Field data sheets from the fourth quarter sampling are included in Appendix A.

4.1 Routine Groundwater Sampling

Two sampling events (A and B) were conducted during each quarter of 2025. The sampling dates and wells included in each event are summarized below:

Well	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)
	February 13 - 14	March 31 - April 1	May 7	June 17 - 18	August 4 - 5	September 9 - 10	October 21 - 22	December 2 - 4
MW-1S						X	X	X
MW-2S		X		X		X		X
MW-3S		X		X		X		X
MW-4S		X		X		X		X
MW-5S	X	X	X	X	X	X	X	X
MW-6S	X	X	X	X	X	X	X	X
MW-11S						X	X	X
MW-7D	X	X	X	X	X	X	X	X
MW-8D	X	X	X	X	X	X	X	X
MW-9D	X	X	X	X	X	X	X	X
MW-10D	X	X	X	X	X	X	X	X

These events allowed for completion of eight sampling events for the six monitoring wells installed in 2024 and three events for the newest monitoring wells (MW-1S and MW-11S) installed in 2025.

The monitoring wells were purged and sampled using dedicated PFAS-free QED bladder pumps with an electronic pump control unit (QED Micropurge MP10/MP10H) and an external nitrogen tank. Low flow purging methods were utilized in accordance with the SAP. Samples to be tested for dissolved metals were field filtered through a 0.45-micron filter. The duplicate sample, MW-13S, was rotated to different wells during the A and B events:

- First Quarter: MW-6S (A and B).
- Second Quarter: MW-5S (A) and MW-3S (B).
- Third Quarter: MW-8D (A) and MW-4S (B).
- Fourth Quarter: MW-11S (A) and MW-6S (B).

The quarterly “B events” included additional MTCA analytical parameters including PFAS, and the results for the MTCA parameters are summarized separately (Parametrix 2025g, 2025i, 2025k, 2026c).

4.2 Groundwater Analysis

The 2025 samples for WAC 173-350-500 monitoring were analyzed by On-Site Environmental, Inc. located in Redmond, Washington. Nitrate was subcontracted to a local lab, Anatek Labs, Inc. in Yakima, Washington, to be analyzed within holding times. The analytical methods used are listed in Table 2.

In addition to the parameters required by WAC 173-350-500, the samples were analyzed for the VOCs included in WAC 173-351-990 Appendix I and naphthalene, and samples from the SA were analyzed for gasoline and diesel/oil range total petroleum hydrocarbons (TPH).

4.3 Leachate Pond Monitoring

Samples were collected from the leachate pond on March 25 during the first quarter B event. At that time, the depth of leachate in the pond was observed to be 6.5 ft which is into the designed free board (2 ft). The total depth of the lined pond is 7 ft.

The leachate pond leak detection sump was measured with a sounder during each quarter. During the first quarter B event, liquid was detected at approximately 32.4 ft of the total sump length of 33.5 ft, indicating less than 3 inches of liquid was present within the sump. In the fourth quarter B event, the depth of leachate in the pond was observed to be 2.5 ft and no water was detected within the sump.

5. Results

5.1 Groundwater Elevations and Flow

5.1.1 Groundwater Elevations

Table 3 summarizes the groundwater depths and elevations measured at the LPL during 2025 B events. Figure 3 presents a hydrograph of historical groundwater elevations for all monitoring wells compared with the cumulative deviation from average monthly precipitation recorded at the Yakima Air Terminal. The water levels are generally consistent with cumulative deviations from average precipitation over time (Figure 3) with peaks occurring in the spring with minor variances. The SA wells

appear to respond to precipitation with MW-2S having less of a direct correlation. MW-2S is completed in the bottom of the SA below the Vantage Interbed.

Long term water level declines have been observed over the course of monitoring at both MW-2S and MW-3S. However, less of a decline has been observed at MW-2S and it has been stable since approximately 2023. MW-3S had further declines in 2024 but began rising again in 2025 and the water level is currently approximately 20 feet below the historical average.

MW-4S water levels appear to be showing seasonality matching the precipitation trend. Wells MW-5S and MW-6S also appear to show seasonality following a peak of water levels during the first quarter. MW-8D and MW-10D water levels peaked during the second quarter and remained consistent throughout the following quarters. MW-7D had a large initial drop before stabilizing in the last four events. Water levels for the new wells MW-1S and MW-11S are plotted for the third quarter for the first time. Longer term trends in water levels for the new and existing wells will be analyzed in response to precipitation and Facility activities as more data is obtained.

5.1.2 Groundwater Gradient

Potentiometric surface maps were developed for each quarter for the SA (Figures 4a, 4b, 4c, and 4d) and the IZ (Figures 5a, 5b, 5c, and 5d).

Water levels in the SA historically trend northerly at 0.20 to 0.25 ft/ft, or approximately 1,056 to 1,108 ft per mile. The new monitoring well MW-11S shows the SA has additional recharge influences north of the Facility that affect the gradient. Similar to the HWA study (2022b), shallower gradients of 0.09 to 0.10 ft/ft, or 480 to 553 ft per mile, were observed in 2025 in the area of the new wells north of the Facility.

Water levels in the IZ trend north-northeasterly at 0.21 to 0.22 ft/ft, or 1,118 to 1,133 ft per mile. This gradient is similar to the historical gradient within the SA and consistent with the dip of the anticline.

These flow directions and gradients are similar to the previous events observed at the Facility. Both the SA and IZ discharge into the AA north of the Facility within the Cowiche Valley.

5.1.3 Groundwater Flow

Groundwater particle velocity is described by the following relationship:

$V = K i / n$, where:

V = particle velocity

K = average hydraulic conductivity (3.1 ft/day for SA, 2 ft/day for IZ)

i = gradient

n = effective porosity

Groundwater flow velocities were calculated using the average hydraulic conductivities for the SA and IZ, an assumed effective porosity of 0.2 (Nimmo et al 2003), and the calculated gradients (Section 5.1.2, above).

Shallow Aquifer

2025 Average Range: 1.41 to 3.880 ft/day (514 to 1,414 ft/year).

Interflow Zone

2025 Average Range: 2.12 to 2.15 ft/day (773 to 783 ft/ year).

5.2 Groundwater Quality

5.2.1 Data Quality Evaluation

Field data sheets from the 2025 events are presented in Appendix A and the laboratory reports for the fourth quarter are presented in Appendix B. Appendix C presents an evaluation of the fourth quarter 2025 analytical and field data quality. Laboratory reports and data quality evaluation memoranda from the first, second, and third quarters were included in their respective quarterly monitoring reports (Parametrix 2025h, 2025j, 2025m). The results of the data quality evaluation for each quarter are summarized below.

- First quarter: No data were qualified.
- Second quarter: No data were qualified.
- Third quarter: The total dissolved solids (TDS) result for MW-6S and total iron results for MW-8D and duplicate sample, MW-13S (A event); and ammonia results for MW-4S and its duplicate sample, MW-13S (B event) were qualified “J” as estimated due to results being outside acceptable relative percent differences.

Field meter measurements collected during both A and B events (pH, conductivity, and ORP) appeared unreliable, likely due to loss of calibration during the sampling. Accordingly, pH values were rejected and “R”-flagged. ORP values were adjusted to negative and qualified as estimated. Conductivity outliers were rejected and “R”-flagged, while values consistent with historical data were qualified as estimated.

- Fourth quarter: The TDS result for MW-2S was flagged “H” due to out-of-hold analysis.

5.2.2 Comparison of Data to Water Quality Criteria

Water quality data collected from the 2025 events were compared to Water Quality Standards for Groundwaters of the State of Washington (GWQSS) and Maximum Contaminant Levels (MCLs; Chapter 246-290 WAC).

5.2.2.1 Shallow Aquifer Samples

The 2025 data for the SA wells are presented in Table 4 and were compared to GWQSS and MCLs. Table 5 summarizes the parameters for which one or more of the above standards were exceeded and indicates the SA wells in which the standards were exceeded. TPH and naphthalene concentrations were compared to MTCA Method A CULs. The following concentrations in the SA wells above these criteria were observed in 2025:

MW-1S

- Dissolved and total iron were above the GWQS and MCL of 0.30 milligrams per liter (mg/L) in the third quarter, and total iron was above the GWQS and MCL in the fourth quarter.
- Dissolved and total manganese were above the GWQS and MCL of 0.05 mg/L in the third and fourth quarters.

MW-3S

- Nitrate was above the GWQS and MCL of 10 mg/L in all four quarters.

MW-4S

- Specific conductivity was above the MCL of 700 micromhos per centimeter ($\mu\text{mhos/cm}$) in all four quarters.
- Nitrate was above the GWQS and MCL of 10 mg/L in all four quarters.
- TDS was above the GWQS and MCL of 500 mg/L in all four quarters.

MW-5S

- Specific conductivity was above the MCL of 700 $\mu\text{mhos/cm}$ in the first and third quarters.
- Dissolved and total iron was above the GWQS and MCL of 0.30 mg/L in the first quarter.
- Dissolved and total manganese was above the GWQS and MCL of 0.05 mg/L in the first quarter.

MW-6S

- Specific conductivity was above the MCL of 700 $\mu\text{mhos/cm}$ in the third quarter.
- Total manganese was above the GWQS and MCL of 0.05 mg/L in the first quarter.
- Nitrate was above the GWQS and MCL of 10 mg/L in all four quarters.

MW-11S

- Dissolved and total manganese was above the MCL of 0.05 mg/L in the third and fourth quarters
- Total iron was above the GWQS and MCL of 0.30 mg/L in the third quarter.

No VOCs were detected above laboratory reporting limits (RLs) except for at MW-1S where vinyl chloride, acetone, and 2-butanone were detected. VOCs detected in MW-1S during the third quarter appear to be false positives and were not detected in the fourth quarter.

No gasoline or diesel/oil-range TPH were detected. TPH has been sampled since 2022 and has not been detected in the SA.

Exceedances of iron and manganese were observed in new monitoring wells MW-1S and MW-11S and were likely the result of the wells not being fully developed and remaining slightly turbid. Iron and manganese concentrations were lower in both wells in the fourth quarter events.

The exceedances at MW-3S, MW-4S, and MW-6S are likely related to impacts from the unlined Phase 1 of the LPL and the SA is in assessment monitoring under MTCA. Statistical comparisons for MW-2S, MW-3S, and MW-4S are presented in Section 5.2.5.

5.2.2.2 Interflow Zone Samples

The data from the IZ wells for 2025 are presented in Table 6 and were compared to GWQS and MCLs. Table 7 summarizes the compounds for which one or more of the above standards were exceeded and indicates the IZ wells in which the standards were exceeded.

The following concentrations in the IZ wells above these criteria were observed in 2025:

MW-8D

- Total iron was above the GWQS and MCL of 0.30 mg/L in the first, second, and third quarter events.

MW-9D

- Dissolved and total iron were above the GWQS and MCL of 0.30 mg/L in the first and second quarters.
- Dissolved and total manganese was above the GWQS and MCL of 0.05 mg/L in the first and second quarters.

Groundwater production at well MW-9D is limited and water quality was compliant for iron and manganese beginning in the third quarter of 2025 for the first time since the well was constructed in 2024. This is likely related to continuing development of the well.

No VOCs were detected in the IZ wells above laboratory RLs.

There were no exceedances of GWQSs or MCLs in the IZ attributable to the Phase 2 lined landfill. Background water quality is still being established and elevated iron and manganese are common in low producing bedrock zones such as the IZ.

5.2.3 Time-Series Plots

5.2.3.1 Groundwater

Time-series plots for inorganic parameters are presented in Appendix D. The data show a considerable degree of variability in TDS and some other analytes. It should be noted that the analytical laboratory has changed several times over the history of monitoring. The change of laboratories in the fourth quarter of 2022 is visible in the data. Some other apparent increasing trends have been observed in the inorganic parameters.

Data for the first sampling event of MW-9D in the third quarter of 2024 are anomalous for many parameters because the event was nonroutine and the well was turbid from development. As noted above, iron and manganese were non-detect for the first time in the third quarter 2025 event potentially indicating the well has been fully developed and the data are representative of background conditions.

Conductivity and pH values were rejected or estimated for many wells in the third quarter related to field meter calibration issues. These data are presented in the time series plots but have been removed for statistical analyses.

Alkalinity and Bicarbonate

Alkalinity and bicarbonate appear to have increased beginning in 2022 for both MW-2S and MW-3S. This may be due to changing laboratories. Alkalinity and bicarbonate appear to be variable at MW-4S and several other wells.

Ammonia

Ammonia historically has rarely been detected in the wells. In the third quarter, ammonia was detected in all wells except for MW-6S, MW-7D, and MW-9D in both events, and in MW-5S, MW-8D,

and MW-10D in the A event. Most of these detections were not confirmed in the fourth quarter, except for wells MW-1S and MW-2S.

Dissolved Calcium

Dissolved calcium is increasing in wells MW-3S, MW-4S, and MW-6S, with the highest detected concentration at MW-4S occurring in the third quarter B event. The fourth quarter A event dissolved calcium concentration at MW-6S was the highest detected value at that well.

Chloride

Chloride appears to be increasing at MW-3S and is relatively stable at the remaining wells.

Conductivity

Conductivity appears to be increasing in wells MW-3S, MW-4S, and MW-6S. Since the field meter experienced calibration issues in the third quarter, recent conductivity measurements may not be accurate.

Total and Dissolved Iron

Total and dissolved iron show high variability particularly in the new SA and IZ wells, although concentrations appear to be decreasing at wells MW-9D, MW-1S, and MW-11S.

Total and Dissolved Magnesium

Total and dissolved magnesium concentrations appear to be increasing in wells MW-3S and MW-4S. The second quarter concentration in MW-4S was the highest detected value at that well but concentrations were slightly lower in the third and fourth quarters. Increases at MW-3S started in approximately 2019 and at MW-4S in 2022.

Total and Dissolved Manganese

Total and dissolved manganese show high variability particularly in the new SA and IZ wells, although concentrations appear to be decreasing at wells MW-9D, MW-1S, and MW-11S.

Nitrate

Apparent increases in nitrate are visible for wells MW-3S, MW-4S, and MW-6S, although concentrations at MW-3S appear to be stabilizing. The second quarter nitrate concentration in MW-4S was observed to be the highest measured to date.

pH

pH has been relatively stable for most wells except for the third quarter. As noted above, the third quarter pH measurements from nearly all the wells were elevated due to meter calibration issues and were rejected.

Dissolved Potassium

Dissolved potassium is relatively stable in most wells with a slight increasing trend at MW-4S.

Dissolved Sodium

Dissolved sodium results appear relatively stable except MW-9D, which has shown a marked decrease following the initial sampling event.

Sulfate

Apparent increases in sulfate are present at wells MW-3S, MW-4S, and MW-6S, and were first observed in MW-3S around 2022. The third and fourth quarter results were slightly lower than the historical highs that occurred in the second quarter. MW-9D has shown a marked decrease following the initial sampling event.

Total Dissolved Solids

Apparent increases in TDS are present at wells MW-3S, MW-4S, and MW-6S, and were first observed in MW-3S around 2022. Apparent increases in TDS appear at wells MW-3S and MW-4S started in 2022. The other wells appear to be relatively stable. MW-9D has shown a marked decrease following the initial sampling event.

Total Organic Carbon

TOC appears relatively stable across all wells.

5.2.3.2 Leachate

Samples from the Phase 2 leachate pond were collected for the first time in the first quarter of 2025. Results are presented in Table 8. As additional leachate data are collected, time-series plots showing leachate through time will be developed.

No VOCs were detected in the leachate samples. TPH-diesel and TPH-oil were detected in the leachate at 0.18 mg/L and 0.28 mg/L, respectively. No gas-range TPH was detected. The leachate quality was lower in concentrations than the average of the monitoring wells for most parameters. The first quarter event occurred approximately 4 months after waste placement began in the Phase 2 cell. The leachate generated to date did not appear to have much retention time within the LPL and largely lacked contaminants except for the metals and TPH.

5.2.4 Geochemical Evaluation

5.2.4.1 Cation/Anion Balances

Geochemistry cation/anion balance evaluations for 2025 are presented in Appendix E.

Cation/anion balances are a standard check of inorganic water quality data. When all the major anions and cations have been accurately determined, the sum of the anions in milliequivalents per liter (meq/L) should equal the sum of the cations expressed in the same units. WAC 173-351-430(5)(a) specifies that a 5% difference is acceptable if the anion plus cation sum of the sample is greater than 5 meq/L, while a 10% difference is acceptable if the anion plus cation sum of the sample is less than 5 meq/L.

The 2025 cation/anion balance differences were all within acceptable limits except for the following:

- MW-9D in the first quarter A event.
- MW-2S, MW-6S, and MW-10D in the first quarter B event.
- MW-5S in the second quarter A event.
- MW-1S in the fourth quarter A event.

5.2.4.2 Trilinear Diagram

A trilinear (piper) diagram showing the 2025 data is presented in Appendix E. Piper diagrams are trilinear graphical representations of inorganic water quality, where major anions (chloride, sulfate, and bicarbonate + carbonate) and cations (calcium, magnesium, and sodium + potassium) are plotted on a molar equivalent basis, on two triangular graphs, and the combined data projected onto a quadrilateral field, or four-sided graph. The Piper diagram can be used to compare different water samples to evaluate the degree of similarity, mixing relationships, and time trends.

Groundwater quality in the monitoring wells shows some variations in cation and anion distributions suggesting slightly differing geochemical conditions. The cation distributions in all monitoring wells fell within a similar zone with the principal cations being calcium and magnesium. The anion distributions were more variable.

Anions in SA wells MW-1S, MW-2S, MW-11S, and IZ wells MW-7D and MW-10D were dominantly bicarbonate, while the other wells had varying proportions of bicarbonate, sulfate and chloride. Wells MW-4S, MW-5S, MW-8D, and MW-9D had slightly higher proportions of bicarbonate compared to wells MW-3S and MW-6S, which had slightly higher proportions of chloride. The data was relatively consistent between the two third quarter events.

MW-2S is screened slightly lower in the SA than the other monitoring wells and includes the flow top zone of the Grande Ronde Basalt. The Piper diagram is consistent with the slight differences in geochemistry anticipated due to differing positions of these wells and MW-2S more closely resembles the geochemistry of the other wells completed in the IZ of the Grande Ronde Basalt.

As noted in the first quarter report (Parametrix 2025h), the leachate sample had slightly higher proportions of sulfate and calcium with respect to the majority of the groundwater samples.

5.2.5 Statistical Analysis of Groundwater Quality Data

5.2.5.1 2025 Statistical Approach

Washington's solid waste landfill regulations (Chapter 173-350 WAC) require evaluation of groundwater monitoring data to identify if a statistically significant increase above background has occurred. The statistical approach for 2025 was summarized in the 2024 annual report (Parametrix 2025f) and consists of comparing quarterly data for a subset of leachate indicator parameters to upper prediction limits (UPLs).

Control charts are also used to supplement the UPLs to evaluate whether any trends are occurring that could potentially be attributable to the landfill, including comparing compliance data to Shewhart Control Limits (SCLs) and calculated cumulative sums (CUSUMs) to the calculated control limits (h), where percentages of non-detected values are greater than 50%.

An intrawell (i.e., within the same well) statistical approach is being used to evaluate compliance at the SA wells MW-2S, MW-3S, and MW-4S since there are no upgradient background wells within the SA. A subset of leachate indicator parameters from Chapter 173-350 WAC are being used to establish statistical limits for the three monitoring wells that have established background (MW-2S, MW-3S, and MW-4S). The following parameters were selected for formal statistical analysis:

- pH
- chloride
- nitrate
- sulfate

- ammonia
- TDS
- total and dissolved iron
- total and dissolved manganese

The statistical limits are used in the following way to evaluate groundwater quality at the Rocky Top Environmental LPL:

- For a statistically significant increase (monitoring data exceeding a limit for two consecutive quarters) that cannot be attributed to sampling error, the monitoring data will be compared to the water quality standard in Chapter 173-200 WAC (if available).
- If the water quality standard is exceeded, the monitoring data will be compared to any historical data values that were flagged as outliers to determine whether the monitoring data are within the range of historical data. Because historical outliers were flagged based on statistical tests and visual assessments but could not be verified as outliers through additional data evaluation such as resampling or laboratory review, those values may actually represent a portion of the background population.
- For parameters that are never detected, a confirmed exceedance is registered if any well-constituent pair in the 100% non-detect group exhibits quantified measurements in two consecutive sample and resample events.

5.2.5.2 2025 Statistical Evaluation

The statistical approach for evaluating data at the LPL was used to evaluate whether any statistically significant increases are present that could potentially be attributable to the landfill. Table 9 compares the 2025 data to the UPLs and SCLs (Parametrix 2025f; Appendix F-1). Control charts updated with fourth quarter 2025 data are presented in Appendix F-1.

The following exceedances were identified:

MW-3S

- Chloride exceeded the UPL but was below the SCL in all four quarters. The CUSUM exceeded the h value in the second through fourth quarters.
- Nitrate exceeded the UPL but was below the SCL in all four quarters. The CUSUM exceeded the h value in the third and fourth quarters.
- Sulfate exceeded the UPL in all four quarters and the SCL in the second through fourth quarters. The CUSUM exceeded the h value in the second through fourth quarters.
- TDS exceeded the UPL but was below the SCL in all four quarters. The CUSUM exceeded the h value in the second through fourth quarters.

MW-4S

- Ammonia exceeded the UPL in the third quarter, but the result was not verified by fourth quarter data.
- Total iron exceeded the UPL in the first quarter, but the result was not verified by second quarter data.
- Nitrate exceeded the UPL in the second quarter, but the result was not verified by third quarter data. However, the CUSUM exceeded the h value in the fourth quarter.

Chloride, nitrate, sulfate, and TDS concentrations at MW-3S have exceeded UPLs for more than two consecutive quarters indicating statistically significant increases above background, and CUSUM values are above the h value indicating increasing trends. The first through fourth quarter nitrate concentrations were above the GWQS and MCL, although concentrations of chloride, sulfate, and TDS remained below GWQSs and MCLs. These statistically significant increases will continue to be evaluated in on-going monitoring.

The UPL exceedances in MW-4S were not verified by the next consecutive quarter results. However, nitrate concentrations exceeded the GWQS and MCL during all four quarters and an increasing trend is indicated because the CUSUM exceeded the h value in the fourth quarter.

5.2.5.3 Descriptive Statistics for Background Groundwater

Descriptive statistics for upgradient IZ well MW-10D including the mean, variance, standard deviation, coefficient of variation and standard error are provided in Appendix F-2. Variability in the data over time can be seen in time-series plots discussed in Section 5.2.3.1.

5.2.5.4 2026-2027 Statistical Approach

A technical memorandum presenting the statistical approach and limits for 2026 through 2027 data comparisons is presented in Appendix F-3. The technical memorandum details the process used to establish background data sets for 2026 and 2027 monitoring for all wells except MW-1S and MW-11S. The initial background data set was completed for SA wells MW-5S and MW-6S and IZ monitoring wells MW-7D, MW-8D, MW-9D, and MW-10D at the end of 2025. MW-10D is a background data point in the IZ upgradient of the Facility. The statistical approach for wells MW-1S and MW-11S will be established at the end of 2027 once the background data set has been completed.

Statistical limits have been established for the new monitoring wells (MW-5S, MW-6S, MW-7D, MW-8D, and MW-9D) and updated for the older monitoring wells (MW-2S, MW-3S, and MW-4S), and the subset of parameters evaluated statistically has been updated based on site-specific information. As previously discussed, wells MW-3S, MW-4S, and MW-6S are known to be impacted and the SA is in assessment monitoring and being evaluated under MTCA. Well/parameter cases that have demonstrated documented impacts will be evaluated using a different statistical approach consisting of evaluating trends (Appendix F-3).

PFAS analyses have been added to the routine monitoring for the SA wells following the updated SAP (Parametrix 2026a). Trends in Perfluorooctanoic acid (PFOA) will be evaluated for wells MW-3S, MW-4S, and MW-6S using Mann-Kendall/Sen's Slope analyses of the most recent eight data points on a quarterly basis. There are currently only six or seven quarters of data available for PFAS, so the trend analyses will likely begin in the second quarter of 2026.

6. Conclusions

This report summarizes the 2025 monitoring at the Rocky Top Environmental LPL in compliance with WAC 173-350-500 which consisted of eight monitoring events including four regular compliance monitoring events (B events) for all wells in place at the time of the events, and four supplemental events (A events) for wells constructed in 2024 to establish background water quality. Wells MW-1S and MW-11S constructed in 2025 were also sampled on an initial expedited basis to establish background starting in the third quarter B event. Leachate was sampled during the first quarter B event (Parametrix 2025h).

Water levels (Table 3) for the SA and IZ show predominantly northerly gradients (Figures 4a,4b,4c,4d and 5a, 5b, 5c, 5d). Groundwater flow velocities were calculated to average 1.41 to 3.88 ft/day for the SA and 2.12 to 2.15 ft/day for the IZ. Water levels appear to follow a seasonal pattern; however, some decreasing levels have been observed historically (Figure 3).

Leachate levels in the leachate pond were approximately 2.5 ft during the fourth quarter, indicating the pond levels have significantly decreased since the first quarter. No liquid was observed in the leachate pond leak detection sump.

Groundwater samples were compared to GWQs and MCLs (Tables 4 and 6) and exceedances were summarized in Tables 5 and 7 and discussed in Sections 5.2.2.1 and 5.2.2.2. Wells MW-3S, MW-4S, and MW-6S consistently had nitrate concentrations exceeding the criteria and MW-4S also had concentrations consistently exceeding the criteria for specific conductivity and TDS. Since sampling began in wells MW-1S and MW-11S, iron and manganese exceedances have been observed but were likely the result of the wells not being fully developed and remaining slightly turbid.

Time series plots were developed (Appendix D), and apparent increasing trends were observed at MW-3S and MW-4S for several leachate indicator parameters; however, concentrations were slightly lower in the third and fourth quarters after peaking in the second quarter. MW-6S, downgradient of MW-4S, also showed potential increasing trends for several parameters.

A geochemical evaluation of cations/anions was performed (Appendix E), and cation/anion balance differences were within limits for all the wells.

Results for wells MW-2S, MW-3S, and MW-4S were compared to established UPLs and SCLs for ten leachate indicator parameters (Table 9). MW-3S concentrations exceeded the UPLs for chloride, nitrate, sulfate, and TDS in all four quarters of 2025, indicating statistically significant increases over background, and the CUSUM values exceeded the h values, indicating increasing trends. Sulfate concentrations in MW-3S also exceeded the SCL in the second through fourth quarters. The fourth quarter nitrate CUSUM in well MW-4S was above the h value indicating an increasing trend. These statistically significant increases are currently being addressed through downgradient delineation consistent with the Limited RI Work Plan (Parametrix 2025c).

Assessment monitoring is being implemented at the LPL and the new monitoring wells will assist in evaluating the fate and transport of landfill contaminants. Two new monitoring wells, MW-1S and MW-11S, have been constructed downgradient of MW-3S, and excavation of the temporary fill area has been completed. Concentrations of nitrate in the new wells are an order of magnitude lower than MW-3S and are below the GWQS and MCL, suggesting the landfill impacts are bound within the existing monitoring well network. Potential impacts related to the landfill at MW-4S have been investigated with additional downgradient monitoring wells MW-5S and MW-6S. The SA monitoring wells are being analyzed for additional MTCA contaminants as part of the Limited RI under the AO. MTCA monitoring for the additional contaminants was reported separately during 2025.

6.1 Recommendations

The following recommendations and planned activities are based on the data presented in this report:

- Monitoring will be conducted in accordance with the updated SAP (Parametrix 2026a) that addresses both the routine monitoring data (Chapter 173-350 WAC) and data collected in accordance with the MTCA AO.
- Monitoring data for all wells except MW-1S and MW-11S will be compared to the statistical limits to be used for 2026 and 2027 presented in Appendix F-3 of this report.
- TPH will no longer be sampled in all wells and sampling for VOCs will be limited to the wells related to the MTCA reporting (MW-3S, MW-4S, MW-6S). PFAS will continue to be analyzed quarterly in samples from all the SA wells.
- The routine monitoring data (Chapter 173-350 WAC) and data collected in accordance with the MTCA AO will be presented in combined quarterly and annual reports.

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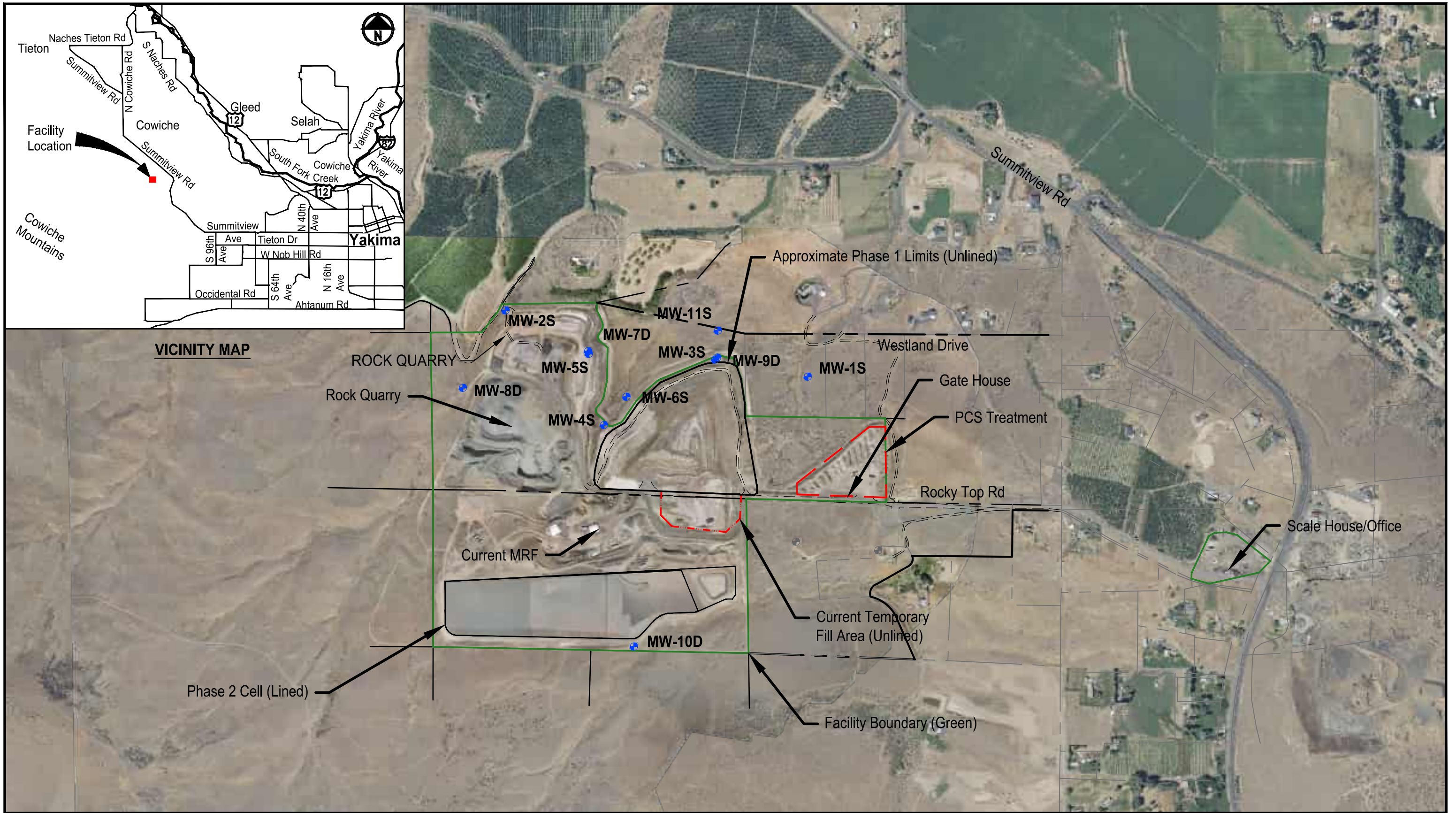
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- Parametrix 2026c. 4Q 2025 MTCA Sampling – AO #DE21624 Technical Memorandum. Prepared for the Washington State Department of Ecology on behalf of DTG Recycling, In Progress.
- US Army Corps of Engineers (USACE), Seattle District. 1978. Yakima Valley Regional Water Management Study, Volume IV, Geology and Groundwater, July 17, 1978.

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YHD (Yakima Health District). 2024. DTG Yakima Limited Purpose Landfill Phase 2 Operating Permit
(HSW2019-0020). Letter from Steven Newchurch, YHD, to DTG Enterprises, Inc.

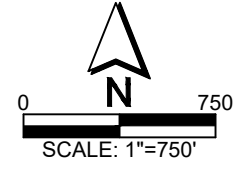
Figures



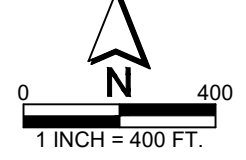
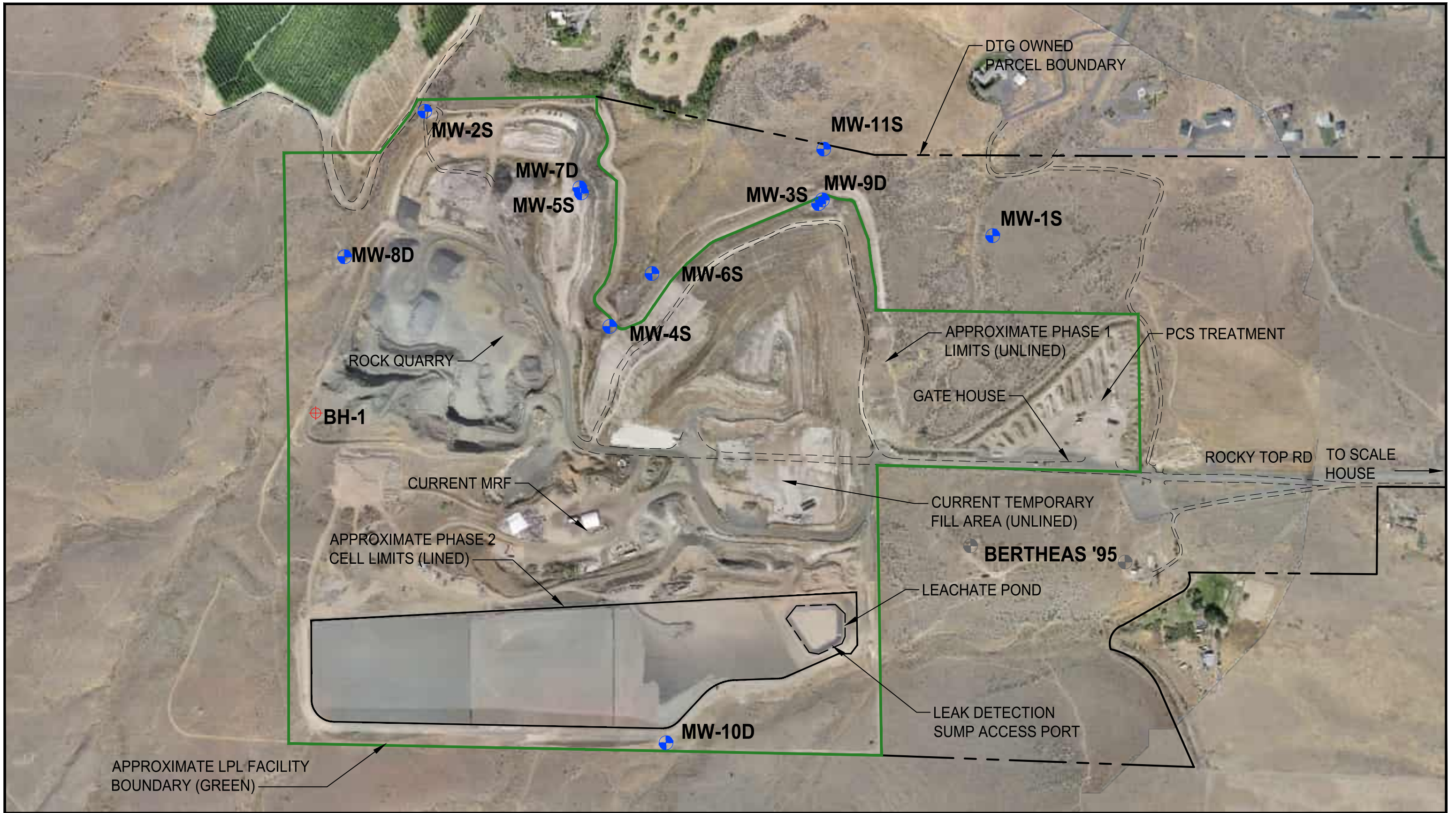


VICINITY MAP

Monitoring Well

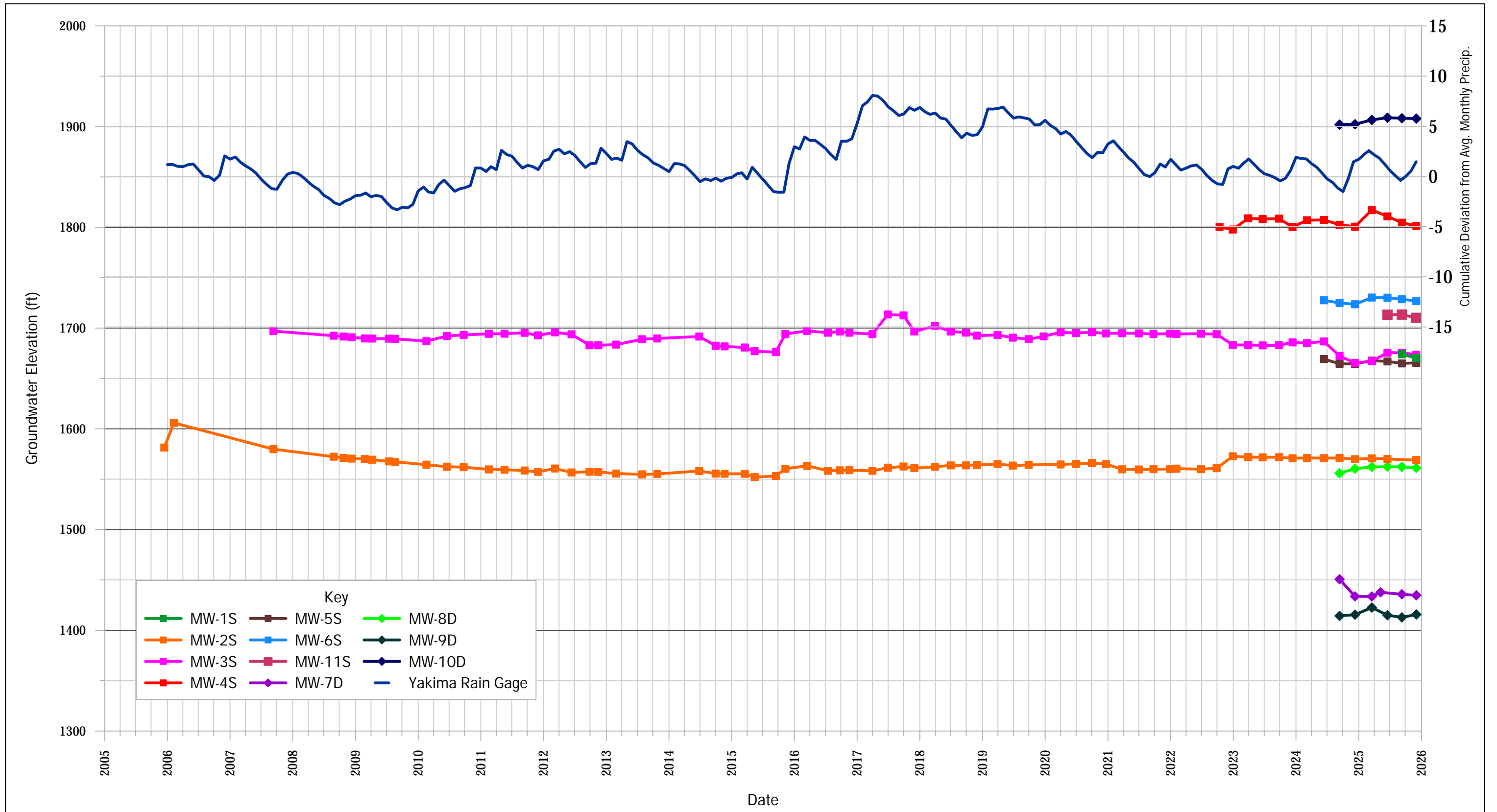


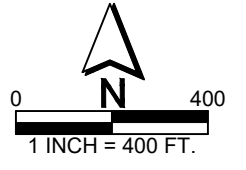
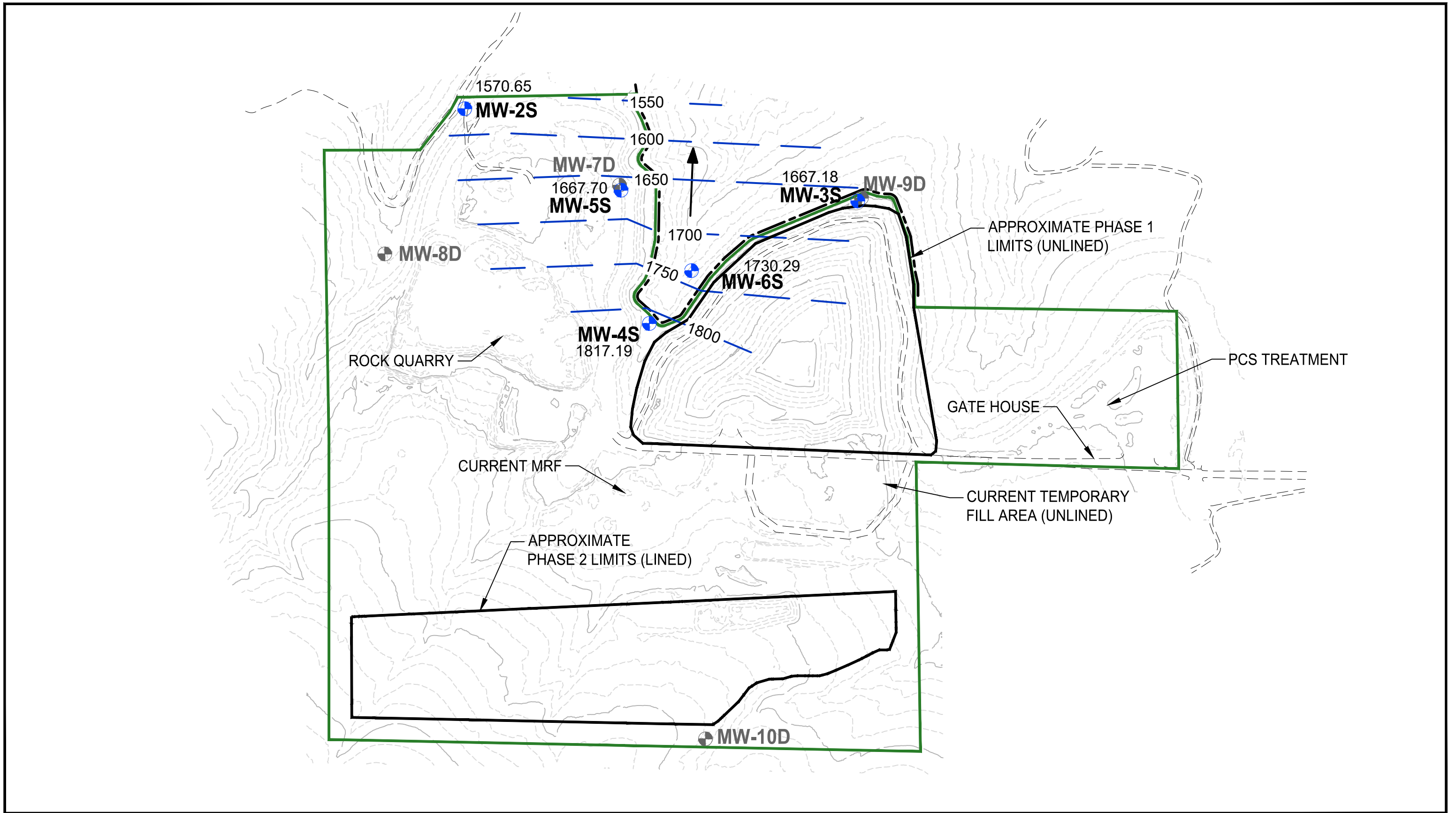
**Figure 1
Facility Vicinity Map
Rocky Top Environmental Limited Purpose Landfill**



- ⊕ Monitoring Well
- ⊕ Borehole
- ⊕ Decommissioned Well

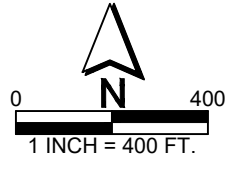
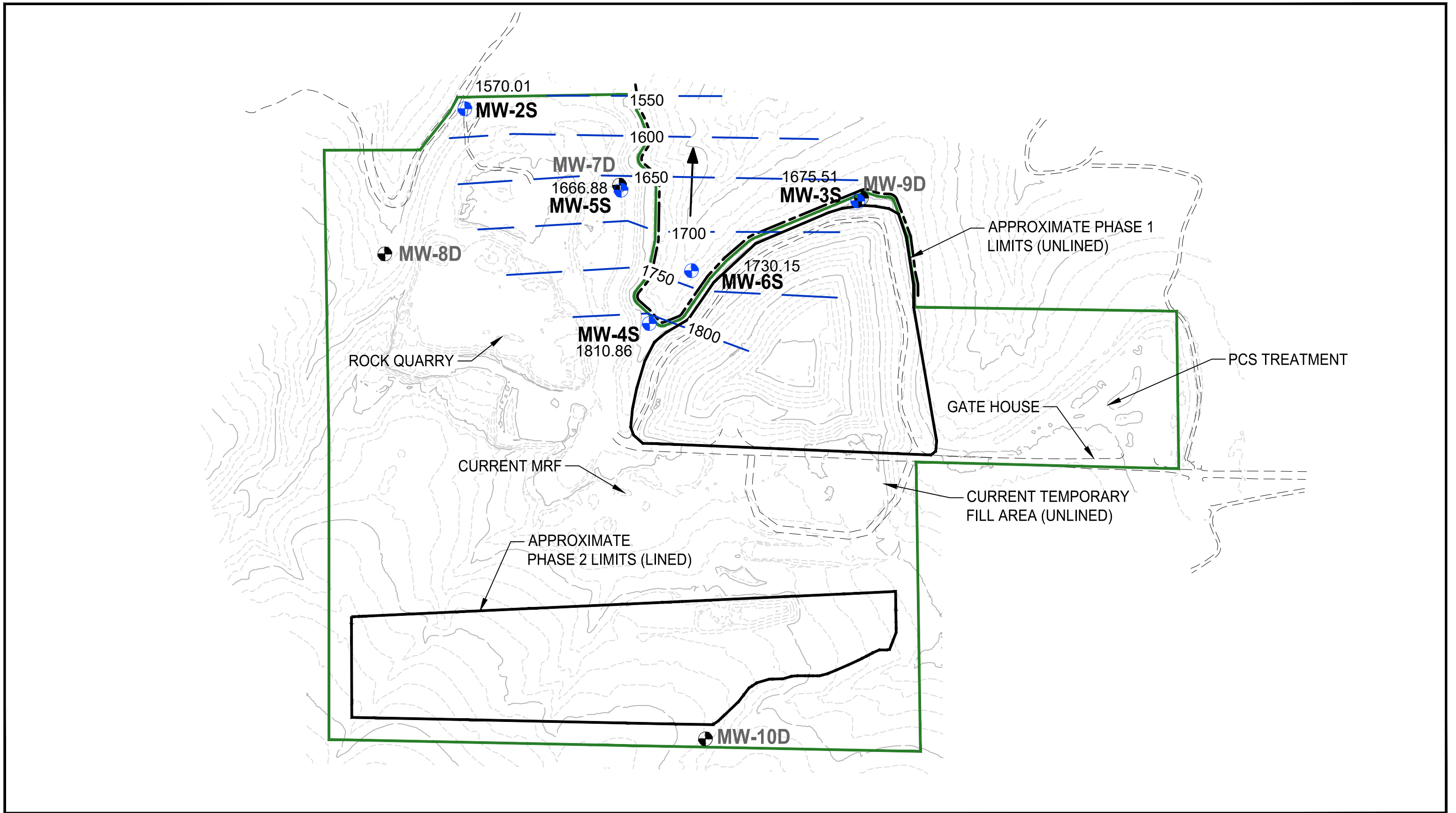
Figure 2
Well Location Map
Rocky Top Environmental Limited Purpose Landfill





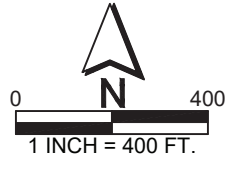
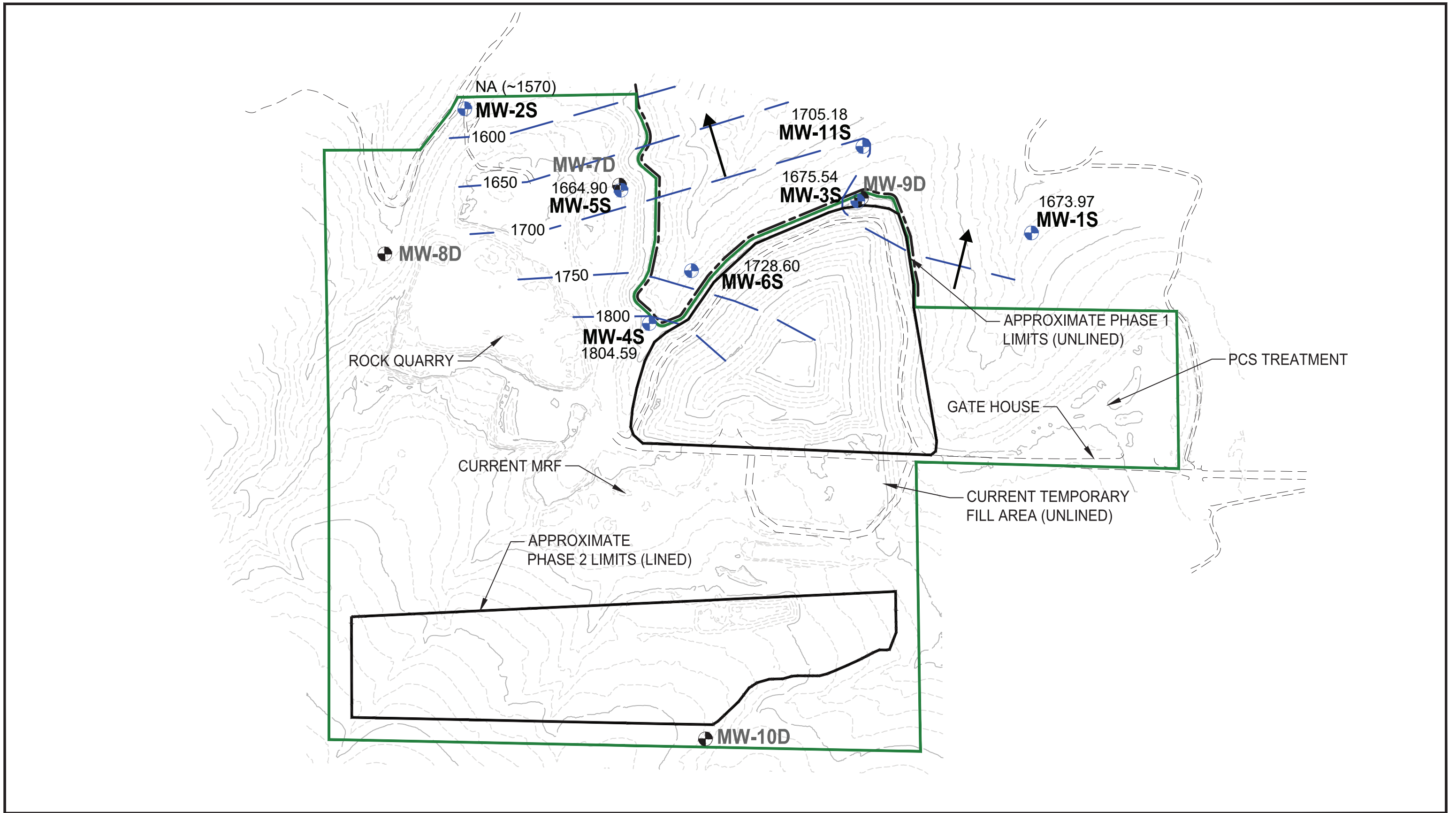
- 1817.19 ● Monitoring Well with Water Level Elevation in feet measured on April 1, 2025
- Monitoring Well not used in contours
- Approximate Groundwater flow direction
- 1700 - Groundwater Elevation Contour (ft)
- LPL Facility Boundary

Figure 4a
First Quarter 2025
Shallow Aquifer Potentiometric Surface
Rocky Top Environmental Limited Purpose Landfill



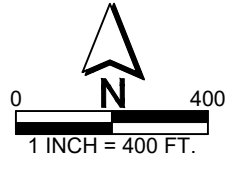
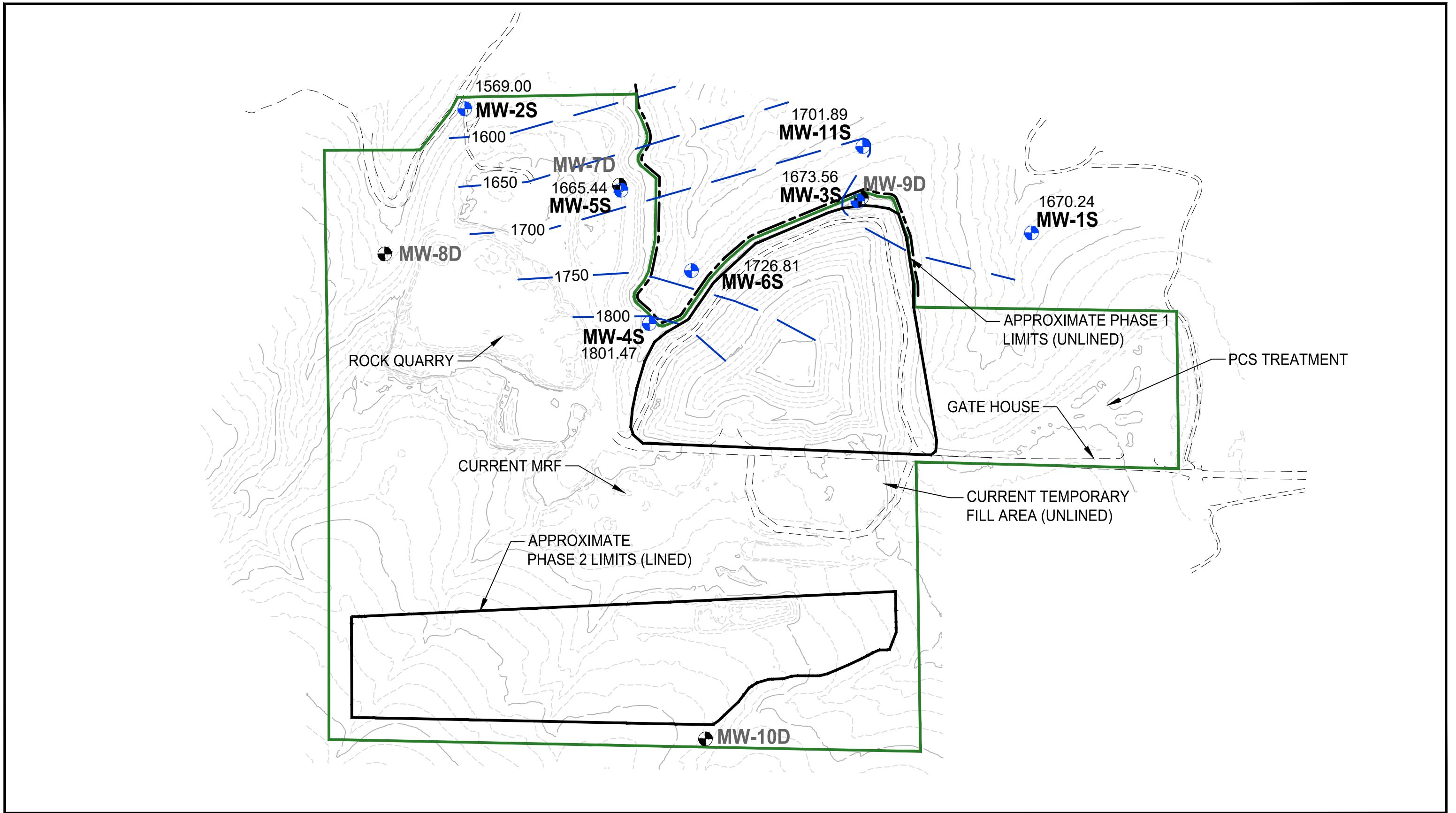
- 1817.19 ● Monitoring Well with Water Level Elevation in feet measured on June 17, 2025
- Monitoring Well not used in contours
- ➔ Approximate Groundwater flow direction
- 1700 - Groundwater Elevation Contour (ft)
- LPL Facility Boundary

Figure 4b
Second Quarter 2025
Shallow Aquifer Potentiometric Surface
Rocky Top Environmental Limited Purpose Landfill



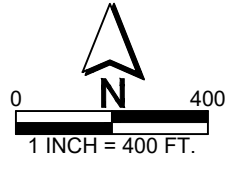
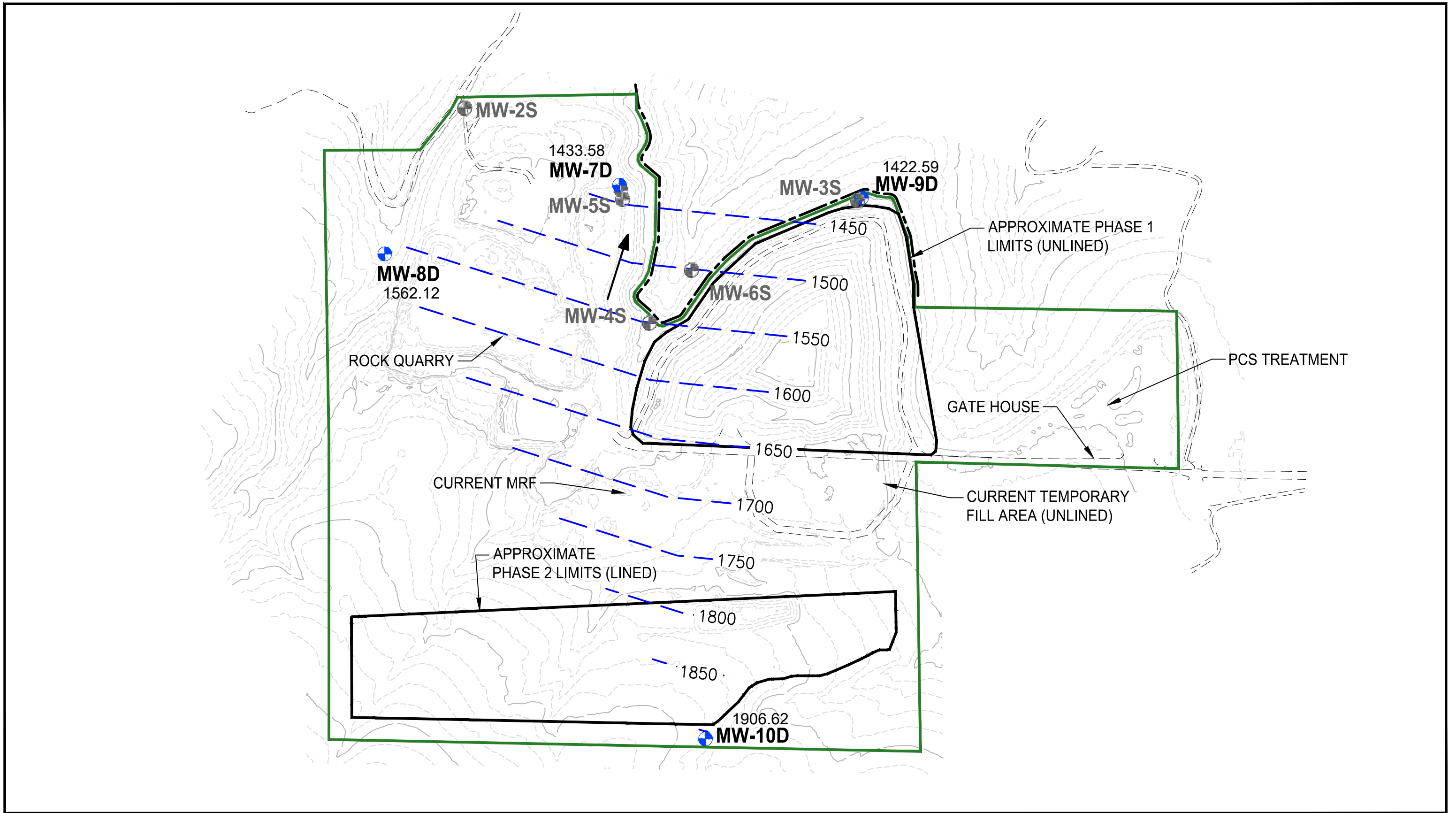
- 1817.19 ● Monitoring Well with Water Level Elevation in feet measured on September 9, 2025
- Monitoring Well not used in contours
- Approximate Groundwater flow direction
- 1700 - Groundwater Elevation Contour (ft)
- LPL Facility Boundary

Figure 4c
Third Quarter 2025
Shallow Aquifer Potentiometric Surface
Rocky Top Environmental Limited Purpose Landfill



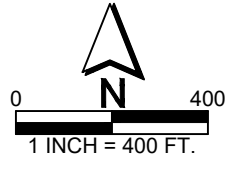
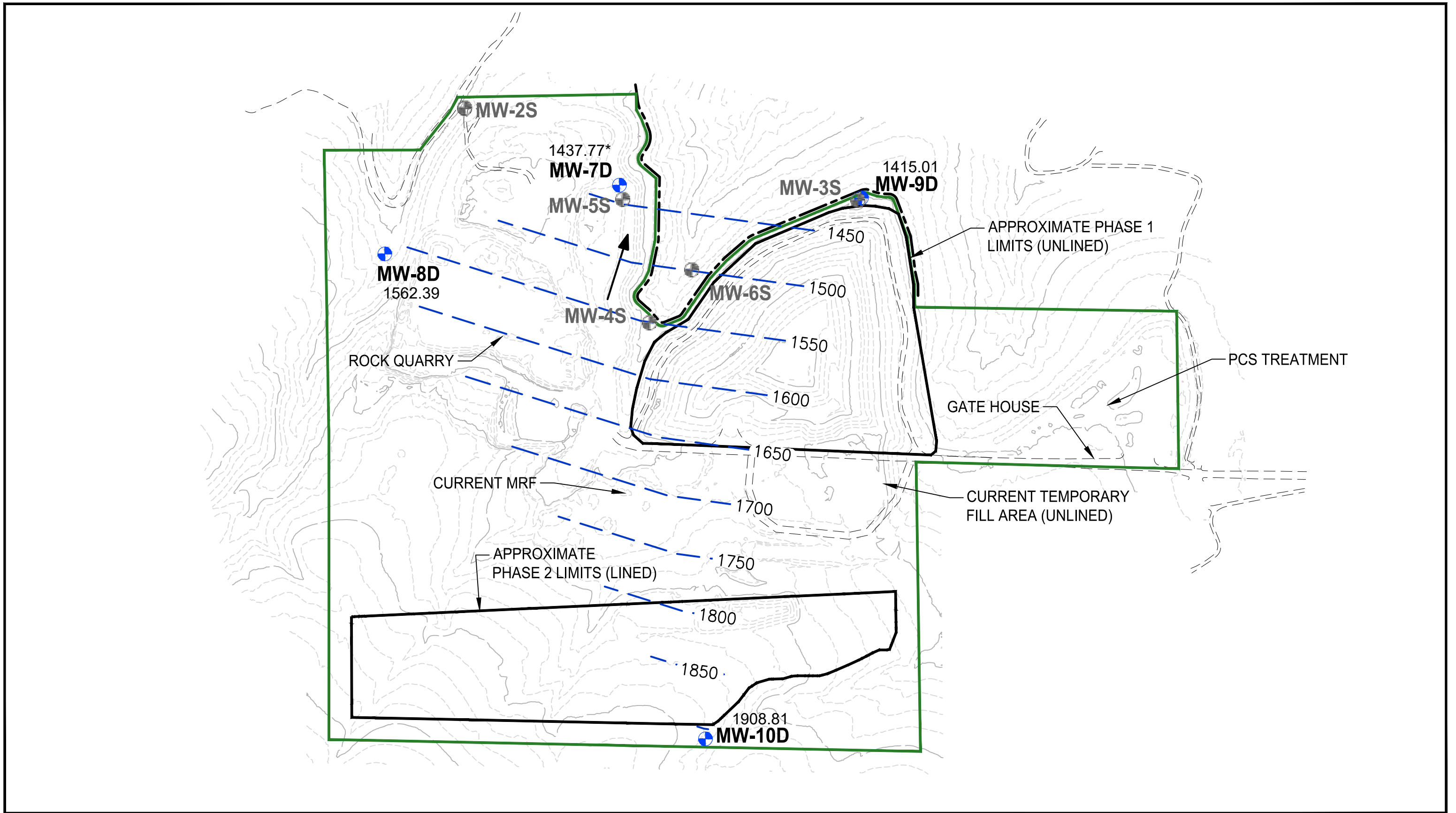
- 1817.19 ● Monitoring Well with Water Level Elevation in feet measured on September 9, 2025
- Monitoring Well not used in contours
- Approximate Groundwater flow direction
- 1700 - Groundwater Elevation Contour (ft)
- LPL Facility Boundary

Figure 4d
Fourth Quarter 2025
Aquifer Potentiometric Surface
Rocky Top Environmental Limited Purpose Landfill



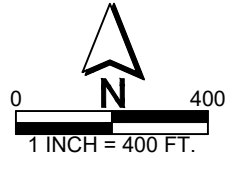
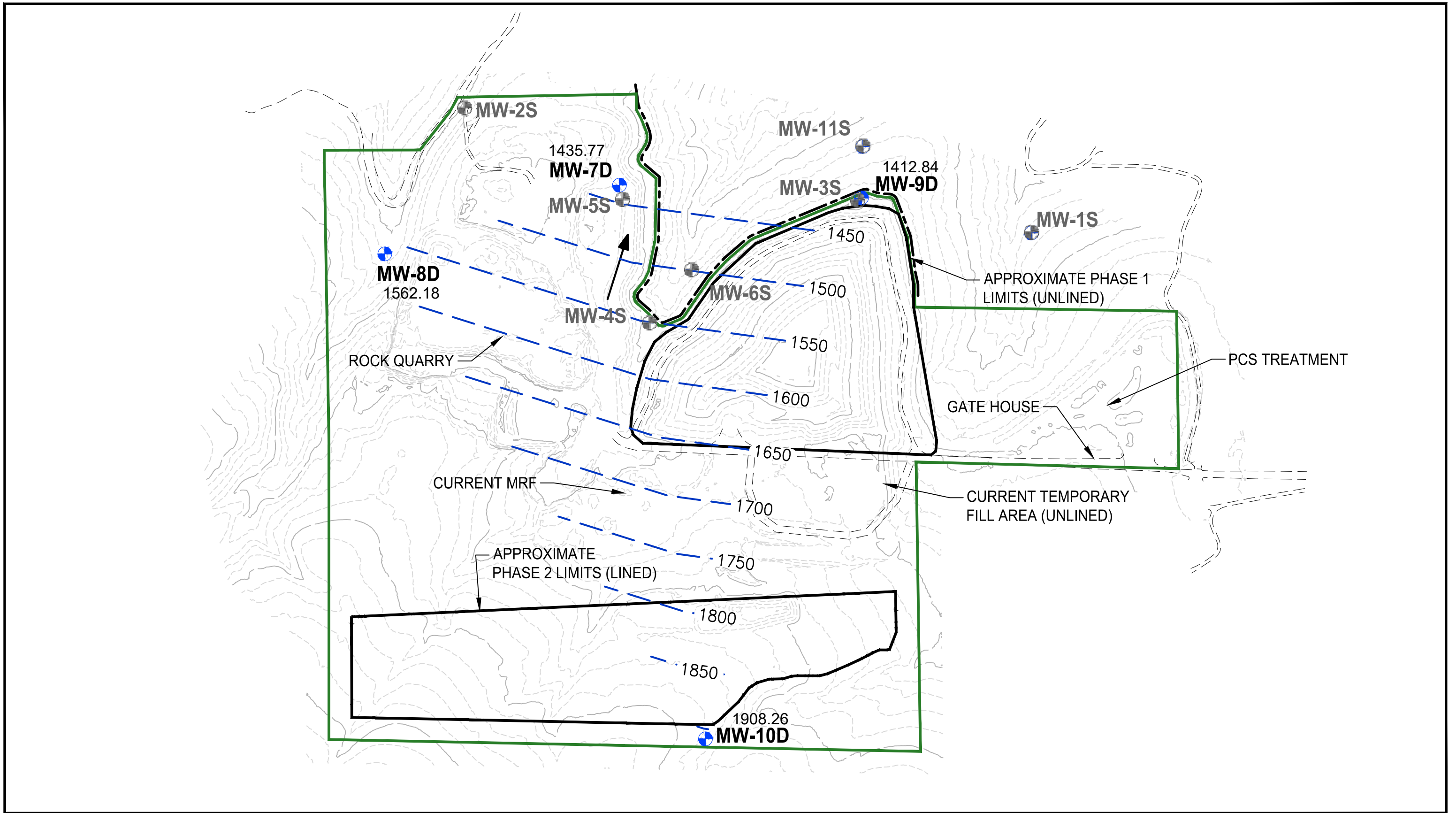
- 1433.58 Monitoring Well with Water Level Elevation in feet measured on April 1, 2025
- Monitoring Well not used in contours
- Approximate Groundwater flow direction
- 1700 - Groundwater Elevation Contour (ft)
- LPL Facility Boundary

Figure 5a
First Quarter 2025
Interflow Zone Potentiometric Surface
Rocky Top Environmental Limited Purpose Landfill



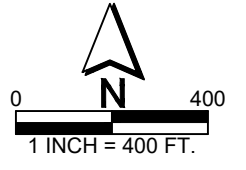
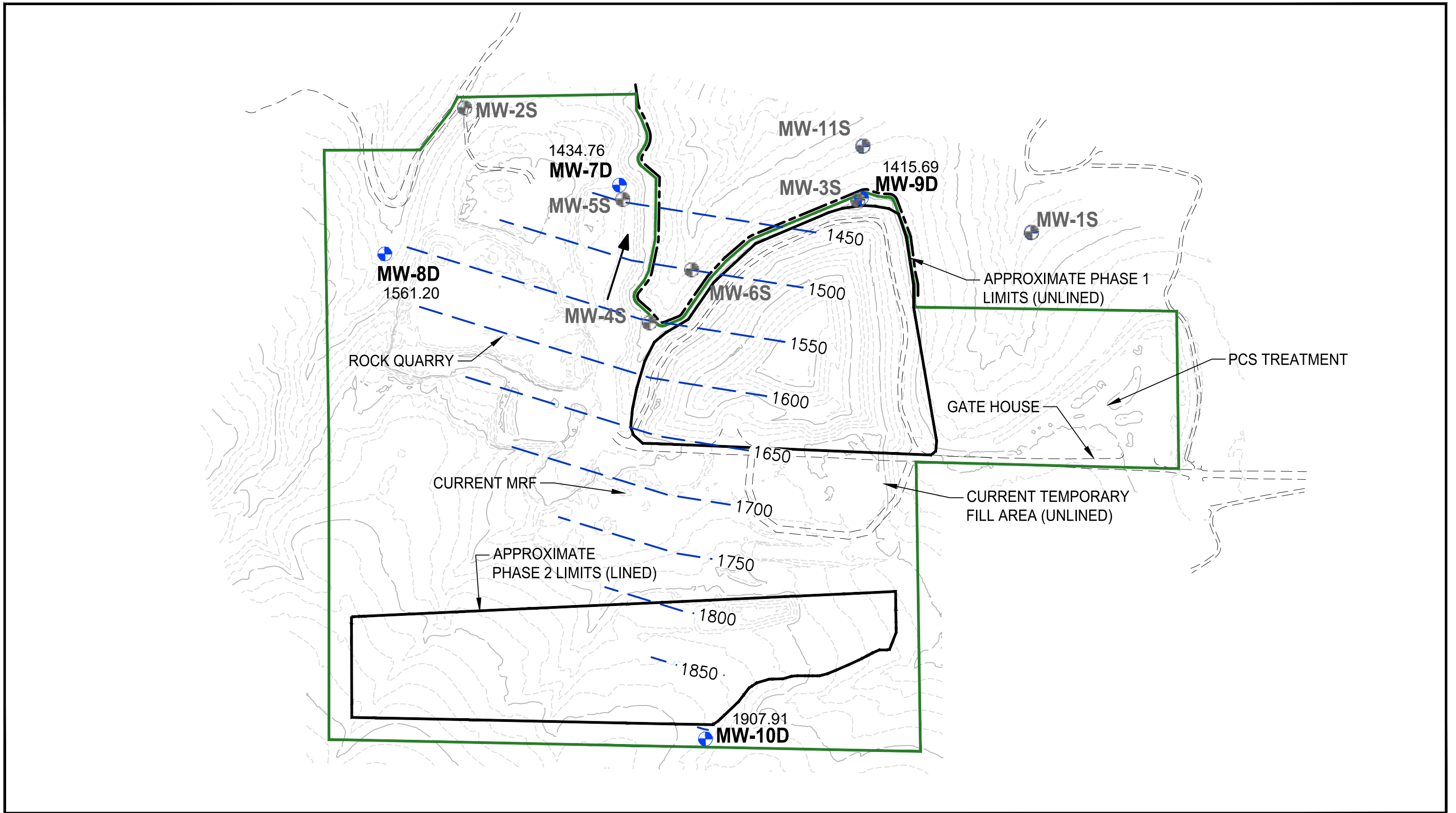
- 1433.58 Monitoring Well with Water Level Elevation in feet measured on June 17, 2025 (*MW-7D measured on 5/8/25)
- Monitoring Well not used in contours
- Approximate Groundwater flow direction
- 1700 Groundwater Elevation Contour (ft)
- LPL Facility Boundary

Figure 5b
Second Quarter 2025
Interflow Zone Potentiometric Surface
Rocky Top Environmental Limited Purpose Landfill



- 1433.58 Monitoring Well with Water Level Elevation in feet measured on September 9, 2025
- Monitoring Well not used in contours
- Approximate Groundwater flow direction
- 1700 Groundwater Elevation Contour (ft)
- LPL Facility Boundary

Figure 5c
Third Quarter 2025
Interflow Zone Potentiometric Surface
Rocky Top Environmental Limited Purpose Landfill



- 1433.58 Monitoring Well with Water Level Elevation in feet measured on September 9, 2025
- Monitoring Well not used in contours
- Approximate Groundwater flow direction
- 1700 - Groundwater Elevation Contour (ft)
- LPL Facility Boundary

Figure 5d
Fourth Quarter 2025
Interflow Zone Potentiometric Surface
Rocky Top Environmental Limited Purpose Landfill

Tables

A large, solid blue shape that starts from the bottom-left corner and extends diagonally towards the top-right corner, covering approximately the right half of the page.

Table 1. Well Detail Summary

Well ID	Northing	Easting	Ground Elevation (ft)	TOC Elevation (ft)	Screen Interval (ft bgs)	Completion Zone	Pump Type	Pump Depth (ft bgs)
MW-1S	473263.04	1593612.05	1774.97	1776.94	113-133	SA	P1101M-Z	123
MW-2S	473814.19	1591095.99	1856.31	1858.36	310-330	SA	P1101HM-Z	316.5
MW-3S	473404.76	1592840.90	1843.82	1845.92	188-198	SA	P1101M-Z	189.5
MW-4S	472860.94	1591915.35	1843.44	1845.59	49-69	SA	P1101M-Z	56.5
MW-5S	473452.58	1591789.89	1881.53	1883.88	222-242	SA	P1101M-Z	236
MW-6S	473095.44	1592102.50	1822.97	1825.31	110-130	SA	P1101M-Z	123
MW-7D	473475.06	1591782.75	1881.68	1883.88	475-495	IZ	P1101HM-Z	485.5
MW-8D	473169.85	1590740.82	1861.60	1863.94	375-405	IZ	P1101HM-Z	390.5
MW-9D	473421.50	1592857.26	1845.25	1847.49	420-440	IZ	P1101HM-Z	439.5
MW-10D	471017.47	1592164.59	1986.47	1988.77	150-170	IZ	P1101M-Z	160.5
MW-11S	473646.54	1592863.47	1820.98	1823.22	219-239	SA	P1101M-Z	229

SA = Shallow Aquifer
 bgs = below ground surface
 IZ = Interflow zone

Table 2. Groundwater Analyses and Analytical Methods

Analyte	Methods
Temperature	field
pH	field
Specific conductivity	field
Alkalinity as CaCO ₃	SM 2520B
Ammonia	EPA 350.1
Bicarbonate as CaCO ₃	Calculation
Calcium (D)	SM3111B
Chloride	SM4500-Cl E
Iron (D&T)	SM3111B
Magnesium (D&T)	SM3111B
Manganese (D&T)	SM3111B
Nitrate as N	EPA 353.2
Potassium (D)	SM3111B
Sodium (D)	SM3111B
Sulfate	ASTM D516-90
Total Dissolved Solids	SM2540C
Total Organic Carbon	SM 2550B
Volatile Organic Compounds	EPA 8260D*
Total Petroleum Hydrocarbons - Gasoline range	NWTPH-Gx
Total Petroleum Hydrocarbons - Diesel/Oil range	NWTPH-Dx

D = Dissolved

T = Total

*WAC 173-351-430 parameter list

Table 3. Groundwater Elevations, 2025, Rocky Top Environmental Limited Purpose Landfill

Well Number	Elevation Top of PVC Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
		3/31/2025	3/31/2025	6/17/2025	6/17/2025	9/9/2025	9/9/2025	12/2/2025	12/2/2025
MW-1S	1776.94	NA	NA	NA	NA	102.97	1673.97	106.70	1670.24
MW-2S	1858.36	287.71	1570.65	288.35	1570.01	NA	NA	289.36	1569.00
MW-3S	1845.92	178.74	1667.18	170.41	1675.51	170.38	1675.54	172.36	1673.56
MW-4S	1845.59	28.40	1817.19	34.73	1810.86	41.00	1804.59	44.12	1801.47
MW-5S	1883.88	216.18	1667.70	217.00	1666.88	218.98	1664.90	218.44	1665.44
MW-6S	1825.31	95.02	1730.29	95.16	1730.15	96.71	1728.60	98.50	1726.81
MW-11S	1823.22	NA	NA	NA	NA	109.82	1713.40	113.11	1710.11
MW-7D	1883.88	450.30	1433.58	446.11	1437.77	448.11	1435.77	449.12	1434.76
MW-8D	1863.94	301.82	1562.12	301.55	1562.39	301.76	1562.18	302.74	1561.20
MW-9D	1847.49	424.90	1422.59	432.48	1415.01	434.65	1412.84	431.80	1415.69
MW-10D	1988.77	82.15	1906.62	79.96	1908.81	80.51	1908.26	80.86	1907.91

Notes:

Elevation datum based on NAD83

NA = Not measured

Table 4. 2025 Shallow Aquifer Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-1S	MW-1S	MW-1S	MW-2S	MW-2S	MW-2S	MW-2S	MW-3S	MW-3S	MW-13S	MW-3S	MW-3S
				9/10/2025	10/22/2025	12/4/2025	4/1/2025	6/17/2025	9/9/2025	12/3/2025	3/31/2025	6/18/2025	6/18/2025	9/10/2025	12/3/2025
Field Data															
pH		6.5-8.5		9.30 R	6.64	8.38	7.59	7.15	7.26 C	7.63	7.09	6.87	--	8.83 R	6.95
Conductivity	µmhos/cm		700 **	257.9 C	206.1	244.9	120	182.6	709.6 R	174.9	432	669	--	689 C	627
Temperature	C			15.4	13.8	12.8	13.73	14.9	16.6	11.3	13.69	14.7	--	15.0	13.6
Redox	mv			-74.1 C	58.2	25.3	192	192.2	181.6 C	158.8	172	247.6	--	-1.2 C	182.3
Dissolved Oxygen	mg/L			0.09	0.41	0.60	7.28	7.52	7.25	8.96	4.77	5.39	--	5.00	7.61
Turbidity	NTU			2.36	--	7.51	0.06	49.60	0.38	0.00	0.21	2.64	--	0.25	0.00
Metals															
Calcium, Dissolved	mg/L			18	19	14	14	13	13	12	52	50	50	50	48
Iron, Total	mg/L	0.30 **	0.3 **	1.1	0.65	0.89	<0.056	<0.050	<0.050	<0.050	<0.056	<0.050	<0.050	<0.050	<0.050
Iron, Dissolved	mg/L		0.3 **	1.1	<0.056	0.062	<0.056	<0.056	<0.056	<0.056	<0.056	0.088	<0.056	<0.056	<0.056
Magnesium, Total	mg/L			9.8	11	8.9	8.9	9.2	8.1	9.0	34	37	37	36	35
Magnesium, Dissolved	mg/L			10	12	8.9	9.3	9.3	8.8	8.8	36	37	37	35	35
Manganese, Total	mg/L	0.05 **	0.05 **	0.57	0.33	0.21	<0.011	<0.010	<0.010	<0.010	<0.011	<0.010	<0.010	<0.010	<0.010
Manganese, Dissolved	mg/L		0.05 **	0.62	0.33	0.15	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Potassium, Dissolved	mg/L			2.8	2.9	2.4	2.6	3.2	3.1	2.9	4.2	4.8	4.8	4.8	4.5
Sodium, Dissolved	mg/L			18	17	16	10	10	9.2	9.9	21	20	20	19	20
Water Quality Parameters															
Alkalinity, Total	mg CaCO3/L			120	100	96	78	82	82	80	94	100	96	100	100
Ammonia (NH3) as Nitrogen (N)	mg/L			0.12	0.094	0.068	<0.053	<0.053	0.071	0.065	<0.053	<0.053	<0.053	0.069	<0.053
Bicarbonate	mg CaCO3/L			120	100	96	78	82	82	80	94	100	96	100	100
Chloride	mg/L	250 **	250 **	4.4	4.7	4.0	2.7	2.9	2.4	2.2	68	67	69	67	64
Nitrate	mg/L-N	10 *	10 *	<0.200	0.600	0.206	0.702	0.686	0.731	0.703	11.3	12.0	12.1	11.6	12.4
Sulfate	mg/L	250 **	250 **	6.2	13	9.4	<5.0	6.3	5.5	5.4	75	99	80	96	89
Total Dissolved Solids	mg/L	500 **	500 **	130	160	150	160	140	120	120 H	420	420	400	410	400
Total Organic Carbon	mg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.0	3.2	3.1	3.0	3.0
Total Petroleum Hydrocarbons															
Gasoline Range Organics ^a	µg/L	MTCA Method A:	1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPHDx															
Diesel Range Organics	mg/L			<0.20	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.20	<0.21	<0.21	<0.21	<0.21
Lube Oil Range Organics	mg/L			<0.20	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.20	<0.21	<0.21	<0.21	<0.21
Total TPHDx	mg/L	MTCA Method A:	0.5	<0.20	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22		<0.21	<0.21	<0.21	<0.21
Volatile Organic Compounds															
Chloromethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.02 ***	2 *	0.030 FP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromomethane	µg/L			<1.4	<1.0	<2.0	<1.0	<1.0	<1.4	<2.0	<1.0	<1.0	<1.0	<1.4	<2.0
Chloroethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11, Trichlorofluoromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg/L		7 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acetone	µg/L			15 FP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Iodide	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	µg/L	5 ***	5 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acrylonitrile	µg/L	0.07 ***		<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	1 ***		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Acetate	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	µg/L		70 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Butanone	µg/L			10 FP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	7 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200 *	200 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	µg/L	0.3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	1 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 4. 2025 Shallow Aquifer Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-1S	MW-1S	MW-1S	MW-2S	MW-2S	MW-2S	MW-2S	MW-3S	MW-3S	MW-13S	MW-3S	MW-3S
				9/10/2025	10/22/2025	12/4/2025	4/1/2025	6/17/2025	9/9/2025	12/3/2025	3/31/2025	6/18/2025	6/18/2025 (MW-3S Dup)	9/10/2025	12/3/2025
Volatile Organic Compounds (cont.)															
Trichloroethene	µg/L	3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.6 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobromomethane	µg/L	0.3 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4-methyl-2-pentanone	µg/L			<2.7	<2.0	<2.0	<2.0	<2.0	<2.7	<2.0	<2.0	<2.0	<2.0	<2.7	<2.0
Toluene	µg/L		1000 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L		5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	µg/L	0.8 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Hexanone	µg/L			<2.6	<2.0	<2.0	<2.0	<2.0	<2.6	<2.0	<2.0	<2.0	<2.0	<2.6	<2.0
Dibromochloromethane	µg/L		80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	µg/L	0.001 ***	0.05 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlorobenzene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L		700 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m, p-Xylene	µg/L			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5 ***	80 * THM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2,3-Trichloropropane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
trans-1,4-Dichloro-2-butene	µg/L			<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	4 ***	75 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	µg/L		600 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-chloropropane	µg/L		0.2 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	µg/L	MTCA Method A:	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

- GWQS = Water Quality Standards for Ground Waters of the State of Washington (WAC 173-200)
- MCL = Maximum Contaminant Level, State Drinking Water Regulations (WAC 246-290)
- MTCA = Model Toxics Control Act (WAC 173-340)
 - ^a = Gasoline with no benzene present
 - * = Primary
 - ** = Secondary
 - *** = Carcinogen
 - *THM = Primary MCL for the sum of all trihalomethanes
 - *XYL = Primary MCL for the sum of all xylenes
- █ = Does not meet GWQS or MCL
- = Not analyzed
 - C = Estimated; calibration issues due to field meter, data may be rejected later
 - FP = Data appears to be a false positive due to residual from drilling fluids, not detected in subsequent monitoring
 - H = Holding time exceeded
 - J = Estimated value
 - R = Rejected

Table 4. 2025 Shallow Aquifer Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-4S	MW-4S	MW-4S	MW-13S	MW-4S	MW-5S	MW-5S	MW-5S	MW-13S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
				4/1/2025	6/18/2025	9/10/2025	(MW-4S Dup) 9/10/2025	12/3/2025	2/13/2025	3/31/2025	5/7/2025	(MW-5S Dup) 5/7/2025	6/17/2025	8/4/2025	9/9/2025	10/21/2025	12/2/2025
Field Data																	
pH		6.5-8.5		7.13	6.72	8.12 R	--	6.97	7.17	7.87	7.92	--	7.49	7.62	7.72	6.99	7.75
Conductivity	µmhos/cm		700 **	752	1,207	1131 C	--	1036	765	525	681	--	403.2	720.7	709.9 C	317.2	356.8
Temperature	C			12.33	13.4	19.4	--	12.0	12.9	13.8	16.2	--	14.7	15.1	17.8	14.3	13.9
Redox	mv			187	288.6	-5.2 C	--	188.6	110.5	-187	-135.1	--	-60.4	144.3	8.5 C	36.9	123.3
Dissolved Oxygen	mg/L			5.77	4.96	8.11	--	6.76	0.22	8.75	1.03	--	2.27	2.03	1.18	2.21	2.57
Turbidity	NTU			0.36	49.96	3.12	--	0.00	0.0	0.25	77.5	--	7.50	--	1.61	--	0.00
Metals																	
Calcium, Dissolved	mg/L			100	110	100	100	88	60	35	30	30	30	28	28	29	26
Iron, Total	mg/L	0.30 **	0.3 **	0.057	<0.050	<0.050	<0.050	<0.050	1.0	0.87	0.25	0.25	0.18	0.14	0.16	0.13	0.12
Iron, Dissolved	mg/L		0.3 **	<0.056	<0.056	<0.056	<0.056	<0.056	0.92	0.37	0.15	0.15	0.21	0.081	0.073	0.081	0.10
Magnesium, Total	mg/L			70	78	67	67	51	45	24	21	19	20	18	16	21	16
Magnesium, Dissolved	mg/L			72	78	74	75	59	42	23	20	20	20	17	18	20	18
Manganese, Total	mg/L	0.05 **	0.05 **	<0.011	<0.010	<0.010	<0.010	<0.010	0.21	0.14	0.039	0.035	0.039	0.028	0.030	0.027	0.023
Manganese, Dissolved	mg/L		0.05 **	<0.011	<0.011	<0.011	<0.011	<0.011	0.21	0.096	0.039	0.038	0.042	0.025	0.021	0.026	0.020
Potassium, Dissolved	mg/L			6.3	7.4	6.7	6.7	6.2	5.2	3.1	3.4	3.3	3.6	3.4	3.5	3.9	3.4
Sodium, Dissolved	mg/L			25	24	21	22	21	20	19	18	18	19	18	17	19	18
Water Quality Parameters																	
Alkalinity, Total	mg CaCO3/L			160	180	160	160	120	100	100	110	100	110	110	110	110	110
Ammonia (NH3) as Nitrogen (N)	mg/L			<0.053	<0.053	0.21 J	0.070 J	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	0.24	<0.053	<0.053
Bicarbonate	mg CaCO3/L			160	180	160	160	120	100	100	110	100	110	110	110	110	110
Chloride	mg/L	250 **	250 **	49	51	42	43	36	77	26	29	30	19	18	17	18	19
Nitrate	mg/L-N	10 *	10 *	62.8	78.2	66.3	68.1	70.5	<0.050	0.0800	0.0240	0.0380	<0.200	<0.200	0.239	<0.200	<0.200
Sulfate	mg/L	250 **	250 **	100	160	120	130	120	160	79	83	83	68	57	59	58	52
Total Dissolved Solids	mg/L	500 **	500 **	710	720	640	670	720	300	330	240	250	230	220	210	210	220
Total Organic Carbon	mg/L			5.0	5.2	3.9	3.8	2.8	4.0	<1.0	1.7	1.8	<1.0	<1.0	<1.0	<1.0	<1.0
Total Petroleum Hydrocarbons																	
Gasoline Range Organics ^a	µg/L	MTCA Method A: 1000		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPHDx																	
Diesel Range Organics	mg/L			<0.21	<0.20	<0.25	<0.24	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21	<0.21	<0.21	<0.20	<0.20
Lube Oil Range Organics	mg/L			<0.21	<0.20	<0.25	<0.24	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21	<0.21	<0.21	<0.20	<0.20
Total TPHDx	mg/L	MTCA Method A: 0.5			<0.20	<0.25	<0.24	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21	<0.21	<0.21	<0.20	<0.20
Volatile Organic Compounds																	
Chloromethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.02 ***	2 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromomethane	µg/L			<1.0	<1.0	<1.4	<1.4	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.4	<1.0	<2.0
Chloroethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11, Trichlorofluoromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg/L		7 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acetone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<6.7	<5.0	<5.0	<6.7	<5.0	<5.0	<5.0	<5.0
Methyl Iodide	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.7	<1.4	<1.5	<1.5	<1.4	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.26	<0.20	<0.20	<0.26	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	µg/L	5 ***	5 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acrylonitrile	µg/L	0.07 ***		<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	1 ***		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Acetate	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	µg/L		70 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Butanone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	7 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200 *	200 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	µg/L	0.3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	1 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 4. 2025 Shallow Aquifer Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-4S	MW-4S	MW-4S	MW-13S	MW-4S	MW-5S	MW-5S	MW-5S	MW-13S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
				4/1/2025	6/18/2025	9/10/2025	(MW-4S Dup) 9/10/2025	12/3/2025	2/13/2025	3/31/2025	5/7/2025	(MW-5S Dup) 5/7/2025	6/17/2025	8/4/2025	9/9/2025	10/21/2025	12/2/2025
Volatile Organic Compounds (cont.)																	
Trichloroethene	µg/L	3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.6 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobromomethane	µg/L	0.3 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4-methyl-2-pentanone	µg/L			<2.0	<2.0	<2.7	<2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.7	<2.0
Toluene	µg/L		1000 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L		5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	µg/L	0.8 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Hexanone	µg/L			<2.0	<2.0	<2.6	<2.6	<2.0	<2.0	<2.0	<2.5	<2.5	<2.0	<2.0	<2.6	<2.0	<2.0
Dibromochloromethane	µg/L		80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	µg/L	0.001 ***	0.05 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlorobenzene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L		700 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m, p-Xylene	µg/L			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5 ***	80 * THM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2,3-Trichloropropane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
trans-1,4-Dichloro-2-butene	µg/L			<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	4 ***	75 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	µg/L		600 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-chloropropane	µg/L		0.2 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	µg/L	MTCA Method A:	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

- GWQS = Water Quality Standards for Ground Waters of the State of Washington (WAC 173-200)
- MCL = Maximum Contaminant Level, State Drinking Water Regulations (WAC 246-290)
- MTCA = Model Toxics Control Act (WAC 173-340)
 - ^a = Gasoline with no benzene present
 - * = Primary
 - ** = Secondary
 - *** = Carcinogen
 - *THM = Primary MCL for the sum of all trihalomethanes
 - *XYL = Primary MCL for the sum of all xylenes
- █ = Does not meet GWQS or MCL
- = Not analyzed
 - C = Estimated; calibration issues due to field meter, data may be rejected later
 - FP = Data appears to be a false positive due to residual from drilling fluids, not detected in subsequent monitoring
 - H = Holding time exceeded
 - J = Estimated value
 - R = Rejected

Table 4. 2025 Shallow Aquifer Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-6S	MW-13S	MW-6S	MW-13S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-13S	MW-11S	MW-11S	MW-13S	MW-11S
				2/14/2025	(MW-6S Dup) 2/14/2025	4/1/2025	(MW-6S Dup) 4/1/2025	5/7/2025	6/18/2025	8/5/2025	9/10/2025	10/21/2025	12/3/2025	12/2/2025	9/10/2025	10/22/2025	(MW-11S Dup) 10/22/2025	12/2/2025
Field Data																		
pH		6.5-8.5		7.25	--	7.51	--	7.31	7.02	7.07	9.27 R	7.04	7.37	--	9.37 R	7.36	--	7.74
Conductivity	µmhos/cm		700 **	573.4	--	389	--	615	591	723.3	617 C	518	622	--	271 C	229.4	--	270.2
Temperature	C			10.6	--	12.36	--	13.7	13.2	12.8	14.1	12.8	12.2	--	14.4	12.3	--	13.1
Redox	mv			120.9	--	165	--	121.1	272.7	224.1	-32.4 C	67.2	172.8	--	-17.0 C	65.9	--	170.8
Dissolved Oxygen	mg/L			3.35	--	4.26	--	4.75	4.38	4.31	3.97	5.53	5.92	--	0.44	0.34	--	1.29
Turbidity	NTU			1.71	--	0.5	--	1.18	2.51	--	0.33	--	0.00	--	4.91	--	--	0.00
Metals																		
Calcium, Dissolved	mg/L			41	40	48	48	46	44	44	45	50	46	46	19	20	20	19
Iron, Total	mg/L	0.30 **	0.3 **	0.12	0.16	<0.056	<0.056	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.30	<0.050	<0.050	<0.050
Iron, Dissolved	mg/L		0.3 **	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056
Magnesium, Total	mg/L			30	31	29	30	32	32	30	28	36	28	30	13	15	15	13
Magnesium, Dissolved	mg/L			28	28	32	32	32	31	30	30	36	32	32	13	15	15	14
Manganese, Total	mg/L	0.05 **	0.05 **	0.30	0.32	0.018	0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.14	0.13	0.14	0.053
Manganese, Dissolved	mg/L		0.05 **	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	0.14	0.13	0.13	0.056
Potassium, Dissolved	mg/L			4.1	3.9	3.9	4.2	4.4	4.5	4.2	4.6	5.2	4.4	4.3	3.5	4.0	4.1	3.5
Sodium, Dissolved	mg/L			16	15	18	18	16	18	16	16	19	17	17	13	14	14	13
Water Quality Parameters																		
Alkalinity, Total	mg CaCO3/L			84	84	86	86	88	88	92	88	98	94	88	110	110	110	110
Ammonia (NH3) as Nitrogen (N)	mg/L			<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	0.13	0.062	<0.053	<0.053
Bicarbonate	mg CaCO3/L			84	84	86	86	88	88	92	88	98	94	88	110	110	110	110
Chloride	mg/L	250 **	250 **	60	62	62	64	65	61	61	62	63	67	73	7.2	7.6	8.0	7.7
Nitrate	mg/L-N	10 *	10 *	11	10	11.3	11.6	11.8	11.8	11.7	12.8	16.0	15.4	15.5	0.551	0.881	0.908	1.26
Sulfate	mg/L	250 **	250 **	56	50	51	54	60	59	56	66	66	64	64	15	14	14	15
Total Dissolved Solids	mg/L	500 **	500 **	340	330	390	430	360	330	210	330 J	380	410	440	150	130	160	170
Total Organic Carbon	mg/L			3.1	3.2	3.0	3.1	3.3	3.1	2.9	3.1	3.3	3.4	3.4	<1.0	<1.0	<1.0	<1.0
Total Petroleum Hydrocarbons																		
Gasoline Range Organics ^a	µg/L	MTCA Method A:	1000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPHDx																		
Diesel Range Organics	mg/L			<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.24	<0.24	<0.20	<0.24	<0.24	<0.20	<0.21	<0.21	<0.20
Lube Oil Range Organics	mg/L			<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.24	<0.24	<0.20	<0.24	<0.24	<0.20	<0.21	<0.21	<0.20
Total TPHDx	mg/L	MTCA Method A:	0.5	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.24	<0.24	<0.20	<0.24	<0.24	<0.20	<0.21	<0.21	<0.20
Volatile Organic Compounds																		
Chloromethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.02 ***	2 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromomethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.4	<1.0	<2.0	<1.0	<1.4	<1.0	<1.0	<2.0
Chloroethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11, Trichlorofluoromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg/L		7 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acetone	µg/L			<5.0	<5.0	<6.7	<5.0	<5.0	<6.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Iodide	µg/L			<1.7	<1.7	<1.4	<1.0	<1.5	<1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	µg/L			<0.20	<0.20	<0.26	<0.20	<0.20	<0.26	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	µg/L	5 ***	5 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acrylonitrile	µg/L	0.07 ***		<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	1 ***		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Acetate	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	µg/L		70 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Butanone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	7 ***	80 * THM	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200 *	200 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	µg/L	0.3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	1 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 4. 2025 Shallow Aquifer Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-6S	MW-13S	MW-6S	MW-13S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-13S	MW-11S	MW-11S	MW-13S	MW-11S
				2/14/2025	(MW-6S Dup) 2/14/2025	4/1/2025	(MW-6S Dup) 4/1/2025	5/7/2025	6/18/2025	8/5/2025	9/10/2025	10/21/2025	12/3/2025	12/2/2025	9/10/2025	10/22/2025	(MW-11S Dup) 10/22/2025	12/2/2025
Volatile Organic Compounds (cont.)																		
Trichloroethene	µg/L	3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.6 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobromomethane	µg/L	0.3 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4-methyl-2-pentanone	µg/L			<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.7	<2.0	<2.0	<2.0	<2.7	<2.0	<2.0	<2.0
Toluene	µg/L		1000 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L		5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	µg/L	0.8 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Hexanone	µg/L			<2.0	<2.0	<2.0	<2.0	<2.5	<2.0	<2.0	<2.6	<2.0	<2.0	<2.0	<2.6	<2.0	<2.0	<2.0
Dibromochloromethane	µg/L		80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	µg/L	0.001 ***	0.05 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlorobenzene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L		700 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m, p-Xylene	µg/L			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5 ***	80 * THM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2,3-Trichloropropane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
trans-1,4-Dichloro-2-butene	µg/L			<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	4 ***	75 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	µg/L		600 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-chloropropane	µg/L		0.2 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	µg/L	MTCA Method A:	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

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 - ^a = Gasoline with no benzene present
 - * = Primary
 - ** = Secondary
 - *** = Carcinogen
- *THM = Primary MCL for the sum of all trihalomethanes
- *XYL = Primary MCL for the sum of all xylenes
- █ = Does not meet GWQS or MCL
- = Not analyzed
 - C = Estimated; calibration issues due to field meter, data may be rejected later
 - FP = Data appears to be a false positive due to residual from drilling fluids, not detected in subsequent monitoring
 - H = Holding time exceeded
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 - R = Rejected

Table 4. 2025 Shallow Aquifer Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	Trip Blank 3/31/2025	Trip Blank 5/7/2025	Trip Blank 6/17/2025	Trip Blank 8/4/2025	Trip Blank 9/9/2025	Trip Blank 10/21/2025	Trip Blank 12/2/2025
Field Data										
pH		6.5-8.5		--	--	--	--	--	--	--
Conductivity	µmhos/cm		700 **	--	--	--	--	--	--	--
Temperature	C			--	--	--	--	--	--	--
Redox	mv			--	--	--	--	--	--	--
Dissolved Oxygen	mg/L			--	--	--	--	--	--	--
Turbidity	NTU			--	--	--	--	--	--	--
Metals										
Calcium, Dissolved	mg/L			--	--	--	--	--	--	--
Iron, Total	mg/L	0.30 **	0.3 **	--	--	--	--	--	--	--
Iron, Dissolved	mg/L		0.3 **	--	--	--	--	--	--	--
Magnesium, Total	mg/L			--	--	--	--	--	--	--
Magnesium, Dissolved	mg/L			--	--	--	--	--	--	--
Manganese, Total	mg/L	0.05 **	0.05 **	--	--	--	--	--	--	--
Manganese, Dissolved	mg/L		0.05 **	--	--	--	--	--	--	--
Potassium, Dissolved	mg/L			--	--	--	--	--	--	--
Sodium, Dissolved	mg/L			--	--	--	--	--	--	--
Water Quality Parameters										
Alkalinity, Total	mg CaCO3/L			--	--	--	--	--	--	--
Ammonia (NH3) as Nitrogen (N)	mg/L			--	--	--	--	--	--	--
Bicarbonate	mg CaCO3/L			--	--	--	--	--	--	--
Chloride	mg/L	250 **	250 **	--	--	--	--	--	--	--
Nitrate	mg/L-N	10 *	10 *	--	--	--	--	--	--	--
Sulfate	mg/L	250 **	250 **	--	--	--	--	--	--	--
Total Dissolved Solids	mg/L	500 **	500 **	--	--	--	--	--	--	--
Total Organic Carbon	mg/L			--	--	--	--	--	--	--
Total Petroleum Hydrocarbons										
Gasoline Range Organics ^a	µg/L	MTCA Method A:	1000	<100	--	--	--	<100	--	--
TPHDx										
Diesel Range Organics	mg/L			--	--	--	--	--	--	--
Lube Oil Range Organics	mg/L			--	--	--	--	--	--	--
Total TPHDx	mg/L	MTCA Method A:	0.5	--	--	--	--	--	--	--
Volatile Organic Compounds										
Chloromethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.02 ***	2 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromomethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.4	<1.0	<2.0
Chloroethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11, Trichlorofluoromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg/L		7 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acetone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Iodide	µg/L			<1.0	<1.5	<1.3	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	µg/L	5 ***	5 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acrylonitrile	µg/L	0.07 ***		<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	1 ***		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Acetate	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	µg/L		70 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Butanone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	7 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200 *	200 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	µg/L	0.3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	1 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 4. 2025 Shallow Aquifer Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	Trip Blank 3/31/2025	Trip Blank 5/7/2025	Trip Blank 6/17/2025	Trip Blank 8/4/2025	Trip Blank 9/9/2025	Trip Blank 10/21/2025	Trip Blank 12/2/2025
Volatile Organic Compounds (cont.)										
Trichloroethene	µg/L	3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.6 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobromomethane	µg/L	0.3 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4-methyl-2-pentanone	µg/L			<2.0	<2.0	<2.0	<2.0	<2.7	<2.0	<2.0
Toluene	µg/L		1000 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L		5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	µg/L	0.8 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Hexanone	µg/L			<2.0	<2.5	<2.0	<2.0	<2.6	<2.0	<2.0
Dibromochloromethane	µg/L		80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	µg/L	0.001 ***	0.05 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlorobenzene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L		700 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m, p-Xylene	µg/L			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5 ***	80 * THM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2,2-Pentachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2,3-Trichloropropane	µg/L			<0.27	<0.20	<0.27	<0.20	<0.20	<0.20	<0.20
trans-1,4-Dichloro-2-butene	µg/L			<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	4 ***	75 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	µg/L		600 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-chloropropane	µg/L		0.2 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	µg/L	MTCA Method A:	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

- GWQS = Water Quality Standards for Ground Waters of the State of Washington (WAC 173-200)
- MCL = Maximum Contaminant Level, State Drinking Water Regulations (WAC 246-290)
- MTCA = Model Toxics Control Act (WAC 173-340)
- ^a = Gasoline with no benzene present
- * = Primary
- ** = Secondary
- *** = Carcinogen
- *THM = Primary MCL for the sum of all trihalomethanes
- *XYL = Primary MCL for the sum of all xylenes
- █ = Does not meet GWQS or MCL
- = Not analyzed
- C = Estimated; calibration issues due to field meter, data may be rejected later
- FP = Data appears to be a false positive due to residual from drilling fluids, not detected in subsequent monitoring
- H = Holding time exceeded
- J = Estimated value
- R = Rejected

Table 5. Shallow Aquifer Groundwater Samples that Failed to Meet Applicable Groundwater Standards in 2025

Analyte	Type of Standard		MW-1S	MW-2S	MW-3S	MW-4S	MW-5S	MW-6S	MW-11S
	GWQS	MCL							
Specific Conductivity	--	Secondary	--	--	--	1B, 2B, 3B, 4B	1A, 3A, 3B	3A	--
Iron, Total	Secondary	Secondary	3B, 4A, 4B	--	--	--	1A, 1B	--	3B
Iron, Dissolved	--	Secondary	3B	--	--	--	1A, 1B	--	--
Manganese, Total	Secondary	Secondary	3B, 4A, 4B	--	--	--	1A, 1B	1A	3B, 4A, 4B
Manganese, Dissolved	--	Secondary	3B, 4A, 4B	--	--	--	1A, 1B	--	3B, 4A, 4B
Nitrate	Primary	Primary	--	--	1B, 2B, 3B, 4B	1B, 2B, 3B, 4B	--	1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B	--
Total Dissolved Solids	Secondary	Secondary	--	--	--	1B, 2B, 3B, 4B	--	--	--

- 1A = February 2025 (MW-2S, MW-3S, MW-4S not sampled)
- 1B = March/April 2025
- 2A = May 2025 (MW-2S, MW-3S, MW-4S not sampled)
- 2B = June 2025
- 3A = August 2025 (MW-1S, MW-2S, MW-3S, MW-4S, MW-11S not sampled)
- 3B = September 2025
- 4A = October 2025 (MW-2S, MW-3S, MW-4S not sampled)
- 4B = December 2025
- = Data did not exceed groundwater standard
- GWQS = Water Quality Standards for Groundwaters of the State of Washington (WAC 173-200)
- MCL = State Maximum Contaminant Levels (WAC 246-290)

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D
				2/13/2025	3/31/2025	5/7/2025	6/17/2025	8/4/2025	9/9/2025	10/21/2025	12/2/2025
Field Data											
pH		6.5-8.5		7.46	7.63	7.92	7.54	7.35 C	7.92 C	6.91	7.72
Conductivity	µmhos/cm		700 **	200.1	187.8	199.2	194.5	720.8 R	709.5 R	163.3	185.5
Temperature	C			11.5	15.3	15.9	16.0	17.3	17.0	15.9	14.5
Redox	mv			135.3	-182.7	-102.3	-87.2	196 C	62.5 C	53.5	142.9
Dissolved Oxygen	mg/L			1.39	0.19	3.19	0.60	2.84	1.32	10.44	0.46
Turbidity	NTU			0.0	0.89	24.91	1.41	--	0.36	--	0.00
Metals											
Calcium, Dissolved	mg/L			13	15	14	15	13	14	14	13
Iron, Total	mg/L	0.30 **	0.30 **	0.29	0.22	0.20	0.11	0.059	0.084	<0.050	0.10
Iron, Dissolved	mg/L		0.3 **	0.25	0.21	0.17	0.10	<0.056	0.077	<0.056	0.061
Magnesium, Total	mg/L			11	10	9.8	11	9.4	9.9	11	9.0
Magnesium, Dissolved	mg/L			9.7	11	11	11	9.7	10	11	10
Manganese, Total	mg/L	0.05 **	0.05 **	0.037	0.033	0.030	0.032	0.031	0.031	0.031	0.027
Manganese, Dissolved	mg/L		0.05 **	0.036	0.033	0.031	0.034	0.031	0.034	0.031	0.029
Potassium, Dissolved	mg/L			2.4	2.3	2.7	2.9	2.4	2.8	3.0	2.5
Sodium, Dissolved	mg/L			10	12	11	12	10	17	12	11
Water Quality Parameters											
Alkalinity, Total	mg CaCO3/L			94	94	100	98	96	100	98	98
Ammonia (NH3) as Nitrogen (N)	mg/L			<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053
Bicarbonate	mg CaCO3/L			94	94	100	98	96	100	98	98
Chloride	mg/L	250 **	250 **	3.1	3.7	2.7	2.6	2.4	2.7	2.5	2.1
Nitrate	mg/L-N	10 *	10 *	0.066	0.0410	0.0350	<0.200	<0.200	<0.200	<0.200	<0.200
Sulfate	mg/L	250 **	250 **	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total Dissolved Solids	mg/L	500 **	500 **	110	160	150	130	150	120	130	150
Total Organic Carbon	mg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Petroleum Hydrocarbons											
Gasoline Range Organics ^a	µg/L	MTCA Method A: 1000		--	--	--	--	--	--	--	--
TPHDx											
Diesel Range Organics	mg/L			--	--	--	--	--	--	--	--
Lube Oil Range Organics	mg/L			--	--	--	--	--	--	--	--
Total TPHDx	mg/L	MTCA Method A: 0.5			--		--	--	--	--	--
Volatile Organic Compounds											
Chloromethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.02 ***	2 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromomethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.4	<1.0	<2.0
Chloroethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11, Trichlorofluoromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg/L		7 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acetone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Iodide	µg/L			<1.7	<1.0	<1.5	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	µg/L	5 ***	5 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acrylonitrile	µg/L	0.07 ***		<0.50	<0.69	<0.50	<0.69	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	1 ***		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Acetate	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	µg/L		70 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Butanone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D
				2/13/2025	3/31/2025	5/7/2025	6/17/2025	8/4/2025	9/9/2025	10/21/2025	12/2/2025
Volatile Organic Compounds (cont.)											
Bromochloromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	7 ***	80 * THM	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200 *	200 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	µg/L	0.3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	1 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethene	µg/L	3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.6 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobromomethane	µg/L	0.3 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4-methyl-2-pentanone	µg/L			<2.0	<2.0	<2.0	<2.0	<2.0	<2.7	<2.0	<2.0
Toluene	µg/L		1000 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L		5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	µg/L	0.8 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Hexanone	µg/L			<2.0	<2.0	<2.5	<2.0	<2.0	<2.6	<2.0	<2.0
Dibromochloromethane	µg/L		80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	µg/L	0.001 ***	0.05 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlorobenzene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L		700 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m, p-Xylene	µg/L			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5 ***	80 * THM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2,3-Trichloropropane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
trans-1,4-Dichloro-2-butene	µg/L			<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	4 ***	75 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	µg/L		600 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-chloropropane	µg/L		0.2 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	µg/L	MTCA Method A:	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

GWQS = Water Quality Standards for Ground Waters of the State of Washington (WAC 173-200)

MCL = Maximum Contaminant Level, State Drinking Water Regulations (WAC 246-290)

MTCA = Model Toxics Control Act (WAC 173-340)

^a = Gasoline with no benzene present

* = Primary

** = Secondary

*** = Carcinogen

*THM = Primary MCL for the sum of all trihalomethanes

*XYL = Primary MCL for the sum of all xylenes

█ = Does not meet GWQS, MCL, or MTCA

-- = Not analyzed

C = Estimated; calibration issues due to field meter

J = Estimated value

R = Rejected due to field meter anomalies

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-13S (MW-8D Dup)	MW-8D	MW-8D	MW-8D
				2/13/2025	4/1/2025	5/7/2025	6/18/2025	8/4/2025	8/4/2025	9/9/2025	10/22/2025	12/3/2025
Field Data												
pH		6.5-8.5		7.66	7.92	7.98	7.69	8.14 C	--	8.10 C	7.42	8.11
Conductivity	µmhos/cm		700 **	371	245	363.5	353.5	720.5 R	--	709.8 R	320.4	400.7
Temperature	C			13.3	12.29	15.3	15.0	16.2	--	16.8	15.0	13.7
Redox	mv			152.4	130	71	215.6	153.4 C	--	139.3 C	48.0	157.0
Dissolved Oxygen	mg/L			0.37 J	0.00	0.76	0.48	0.39	--	0.75	0.15	0.59
Turbidity	NTU			0.0	0.12	89.00	560.25	28.75	--	1.51	--	0.00
Metals												
Calcium, Dissolved	mg/L			24	28	26	26	24	24	26	28	29
Iron, Total	mg/L	0.30 **	0.30 **	0.55	0.20	0.33	0.20	0.55 J	0.18 J	0.088	0.11	0.29
Iron, Dissolved	mg/L		0.3 **	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056
Magnesium, Total	mg/L			19	18	18	17	16	17	17	20	18
Magnesium, Dissolved	mg/L			17	19	18	19	17	17	18	21	21
Manganese, Total	mg/L	0.05 **	0.05 **	0.018	0.013	0.020	0.025	0.031	0.028	0.033	0.035	0.023
Manganese, Dissolved	mg/L		0.05 **	<0.011	<0.011	<0.011	0.023	0.024	0.024	0.033	0.034	0.024
Potassium, Dissolved	mg/L			2.7	2.7	3.0	3.2	2.6	2.6	3.2	3.4	3.1
Sodium, Dissolved	mg/L			18	21	18	20	18	18	19	21	21
Water Quality Parameters												
Alkalinity, Total	mg CaCO3/L			92	92	94	92	94	94	92	94	92
Ammonia (NH3) as Nitrogen (N)	mg/L			<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	0.057	<0.053	<0.053
Bicarbonate	mg CaCO3/L			92	92	94	92	94	94	92	94	92
Chloride	mg/L	250 **	250 **	15	16	15	13	13	13	20	16	21
Nitrate	mg/L-N	10 *	10 *	1.6	1.78	1.60	1.58	1.48	1.46	1.50	1.38	1.27
Sulfate	mg/L	250 **	250 **	50	57	54	58	58	58	60	65	81
Total Dissolved Solids	mg/L	500 **	500 **	230	260	240	220	230	240	230	260	300
Total Organic Carbon	mg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Petroleum Hydrocarbons												
Gasoline Range Organics ^a	µg/L	MTCA Method A: 1000		--	--	--	--	--	--	--	--	--
TPHDx												
Diesel Range Organics	mg/L			--	--	--	--	--	--	--	--	--
Lube Oil Range Organics	mg/L			--	--	--	--	--	--	--	--	--
Total TPHDx	mg/L	MTCA Method A: 0.5		--	--	--	--	--	--	--	--	--
Volatile Organic Compounds												
Chloromethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.02 ***	2 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromomethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.4	<1.0	<2.0
Chloroethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11, Trichlorofluoromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg/L		7 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acetone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Iodide	µg/L			<1.7	<1.3	<1.5	<1.3	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	µg/L	5 ***	5 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acrylonitrile	µg/L	0.07 ***		<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	1 ***		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Acetate	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	µg/L		70 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Butanone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-13S	MW-8D	MW-8D	MW-8D
				2/13/2025	4/1/2025	5/7/2025	6/18/2025	8/4/2025	(MW-8D Dup) 8/4/2025	9/9/2025	10/22/2025	12/3/2025
Volatile Organic Compounds (cont.)												
Bromochloromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	7 ***	80 * THM	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200 *	200 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	µg/L	0.3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	1 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethene	µg/L	3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.6 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobromomethane	µg/L	0.3 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4-methyl-2-pentanone	µg/L			<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.7	<2.0	<2.0
Toluene	µg/L		1000 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L		5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	µg/L	0.8 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Hexanone	µg/L			<2.0	<2.0	<2.5	<2.0	<2.0	<2.0	<2.6	<2.0	<2.0
Dibromochloromethane	µg/L		80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	µg/L	0.001 ***	0.05 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlorobenzene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L		700 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m, p-Xylene	µg/L			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5 ***	80 * THM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2,3-Trichloropropane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
trans-1,4-Dichloro-2-butene	µg/L			<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	4 ***	75 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	µg/L		600 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-chloropropane	µg/L		0.2 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	µg/L	MTCA Method A:	160		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

GWQS = Water Quality Standards for Ground Waters of the State of Washington (WAC 173-200)

MCL = Maximum Contaminant Level, State Drinking Water Regulations (WAC 246-290)

MTCA = Model Toxics Control Act (WAC 173-340)

^a = Gasoline with no benzene present

* = Primary

** = Secondary

*** = Carcinogen

*THM = Primary MCL for the sum of all trihalomethanes

*XYL = Primary MCL for the sum of all xylenes

█ = Does not meet GWQS, MCL, or MTCA

-- = Not analyzed

C = Estimated; calibration issues due to field meter

J = Estimated value

R = Rejected due to field meter anomalies

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	
				2/12/2025	3/31/2025	5/7/2025	6/18/2025	8/5/2025	9/10/2025	10/21/2025	12/2/2025
Field Data											
pH		6.5-8.5		6.96	7.28	7.11	6.82	7.53 C	9.01 R	6.61	7.18
Conductivity	µmhos/cm		700 **	435	460.4	425.3	431.5	723.3 R	486.6 C	400.5	457.1
Temperature	C			10.9	12.0	15.1	15.5	14.9	15.5	14.6	12.5
Redox	mv			171.9	-171.6	-12.8	157.4	203.6 C	-30.8 C	67.4	179.4
Dissolved Oxygen	mg/L			24.9	0.07	0.81	4.50	9.95	4.95	6.61	10.99
Turbidity	NTU			1.45	0.97	1.76	0.75	6.81	0.44	--	0.00
Metals											
Calcium, Dissolved	mg/L			33	31	30	31	31	33	32	30
Iron, Total	mg/L	0.30 **	0.30 **	1.4	0.88	0.63	0.47	0.16	<0.050	<0.050	0.15
Iron, Dissolved	mg/L		0.3 **	0.55	0.69	0.33	0.16	<0.056	<0.056	<0.050	<0.056
Magnesium, Total	mg/L			22	18	18	19	18	19	23	18
Magnesium, Dissolved	mg/L			20	19	19	20	20	21	21	19
Manganese, Total	mg/L	0.05 **	0.05 **	0.45	0.34	0.18	0.15	<0.010	<0.010	<0.010	0.014
Manganese, Dissolved	mg/L		0.05 **	0.43	0.32	0.18	0.16	<0.011	<0.011	<0.010	<0.011
Potassium, Dissolved	mg/L			2.3	1.8	2.2	2.7	2.2	2.7	2.6	2.2
Sodium, Dissolved	mg/L			29	26	22	27	26	27	27	24
Water Quality Parameters											
Alkalinity, Total	mg CaCO3/L			100	100	90	88	88	90	94	90
Ammonia (NH3) as Nitrogen (N)	mg/L			<0.053	<0.053	<0.053	0.090	<0.053	<0.053	<0.053	<0.053
Bicarbonate	mg CaCO3/L			100	100	90	88	88	90	94	90
Chloride	mg/L	250 **	250 **	40	41	40	41	41	44	42	42
Nitrate	mg/L-N	10 *	10 *	<0.050	0.0770	0.0510	1.64	<0.200	<0.200	1.60	<0.200
Sulfate	mg/L	250 **	250 **	48	49	50	57	73	68	74	60
Total Dissolved Solids	mg/L	500 **	500 **	330	290	270	270	150	270	310	320
Total Organic Carbon	mg/L			3.1	3.1	2.0	2.9	3.6	3.0	2.8	3.1
Total Petroleum Hydrocarbons											
Gasoline Range Organics ^a	µg/L	MTCA Method A: 1000		--	--	--	--	--	--	--	--
TPHDx											
Diesel Range Organics	mg/L			--	--	--	--	--	--	--	--
Lube Oil Range Organics	mg/L			--	--	--	--	--	--	--	--
Total TPHDx	mg/L	MTCA Method A: 0.5			--		--	--	--	--	--
Volatile Organic Compounds											
Chloromethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.02 ***	2 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromomethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.4	<1.0	<2.0
Chloroethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11, Trichlorofluoromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg/L		7 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acetone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Iodide	µg/L			<1.7	<1.3	<1.5	<1.3	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	µg/L	5 ***	5 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acrylonitrile	µg/L	0.07 ***		<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	1 ***		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Acetate	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	µg/L		70 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Butanone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
				2/12/2025	3/31/2025	5/7/2025	6/18/2025	8/5/2025	9/10/2025	10/21/2025	12/2/2025
Volatile Organic Compounds (cont.)											
Bromochloromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	7 ***	80 * THM	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200 *	200 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	µg/L	0.3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	1 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethene	µg/L	3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.6 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobromomethane	µg/L	0.3 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4-methyl-2-pentanone	µg/L			<2.0	<2.0	<2.0	<2.0	<2.0	<2.7	<2.0	<2.0
Toluene	µg/L		1000 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L		5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	µg/L	0.8 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Hexanone	µg/L			<2.0	<2.0	<2.5	<2.0	<2.0	<2.6	<2.0	<2.0
Dibromochloromethane	µg/L		80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	µg/L	0.001 ***	0.05 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlorobenzene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L		700 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m, p-Xylene	µg/L			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5 ***	80 * THM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2,3-Trichloropropane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
trans-1,4-Dichloro-2-butene	µg/L			<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	4 ***	75 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	µg/L		600 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-chloropropane	µg/L		0.2 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	µg/L	MTCA Method A:	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

GWQS = Water Quality Standards for Ground Waters of the State of Washington (WAC 173-200)

MCL = Maximum Contaminant Level, State Drinking Water Regulations (WAC 246-290)

MTCA = Model Toxics Control Act (WAC 173-340)

^a = Gasoline with no benzene present

* = Primary

** = Secondary

*** = Carcinogen

*THM = Primary MCL for the sum of all trihalomethanes

*XYL = Primary MCL for the sum of all xylenes

█ = Does not meet GWQS, MCL, or MTCA

-- = Not analyzed

C = Estimated; calibration issues due to field meter

J = Estimated value

R = Rejected due to field meter anomalies

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-10D 2/14/2025	MW-10D 3/31/2025	MW-10D 5/8/2025	MW-10D 6/19/2025	MW-10D 8/5/2025	MW-10D 9/10/2025	MW-10D 10/22/2025	MW-10D 12/3/2025
Field Data											
pH		6.5-8.5		7.36	7.28	7.46	6.88	7.67 C	8.07 R	6.94	7.28
Conductivity	µmhos/cm		700 **	244.5	227.8	238.5	237	719.8 R	244.5 C	197.7	225.6
Temperature	C			13.3	13.2	13.8	14.4	17.4	18.4	14.4	13.7
Redox	mv			113.9	-108.9	230.4	306.4	191.7 C	-24.0 C	59.4	175.6
Dissolved Oxygen	mg/L			4.12	4.49	6.64	6.21	7.62	4.04	6.19	5.92
Turbidity	NTU			2.08	0.89	15.49	2.89	--	0.41	--	0.00
Metals											
Calcium, Dissolved	mg/L			17	20	19	20	18	19	18	18
Iron, Total	mg/L	0.30 **	0.30 **	0.17	<0.056	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Iron, Dissolved	mg/L		0.3 **	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.050	<0.056
Magnesium, Total	mg/L			11	11	12	12	11	11	12	9.9
Magnesium, Dissolved	mg/L			9.7	12	11	12	11	11	11	11
Manganese, Total	mg/L	0.05 **	0.05 **	0.012	<0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Manganese, Dissolved	mg/L		0.05 **	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011
Potassium, Dissolved	mg/L			1.9	2.2	2.6	2.8	2.2	2.6	2.4	2.4
Sodium, Dissolved	mg/L			13	15	13	13	12	12	12	12
Water Quality Parameters											
Alkalinity, Total	mg CaCO3/L			96	94	100	98	100	98	98	94
Ammonia (NH3) as Nitrogen (N)	mg/L			<0.053	<0.053	<0.053	<0.053	<0.053	0.088	<0.053	<0.053
Bicarbonate	mg CaCO3/L			96	94	100	98	100	98	98	94
Chloride	mg/L	250 **	250 **	3.4	3.7	3.6	4.0	2.8	3.3	3.1	2.9
Nitrate	mg/L-N	10 *	10 *	1.4	1.51	1.48	1.64	0.970	1.60	1.43	1.60
Sulfate	mg/L	250 **	250 **	9.9	11	11	13	12	12	12	13
Total Dissolved Solids	mg/L	500 **	500 **	280	180	150	160	170	190	170	170
Total Organic Carbon	mg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Petroleum Hydrocarbons											
Gasoline Range Organics ^a	µg/L	MTCA Method A:	1000	--	--	--	--	--	--	--	--
TPHDx											
Diesel Range Organics	mg/L			--	--	--	--	--	--	--	--
Lube Oil Range Organics	mg/L			--	--	--	--	--	--	--	--
Total TPHDx	mg/L	MTCA Method A:	0.5		--		--	--	--	--	--
Volatile Organic Compounds											
Chloromethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.02 ***	2 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromomethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.4	<1.0	<1.5
Chloroethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11, Trichlorofluoromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg/L		7 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acetone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Iodide	µg/L			<1.7	<1.3	<1.5	<1.3	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	µg/L	5 ***	5 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acrylonitrile	µg/L	0.07 ***		<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	1 ***		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Acetate	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	µg/L		70 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Butanone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	MW-10D 2/14/2025	MW-10D 3/31/2025	MW-10D 5/8/2025	MW-10D 6/19/2025	MW-10D 8/5/2025	MW-10D 9/10/2025	MW-10D 10/22/2025	MW-10D 12/3/2025
Volatile Organic Compounds (cont.)											
Bromochloromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	7 ***	80 * THM	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200 *	200 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	µg/L	0.3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	1 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethene	µg/L	3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.6 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobromomethane	µg/L	0.3 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4-methyl-2-pentanone	µg/L			<2.0	<2.0	<2.0	<2.0	<2.0	<2.7	<2.0	<2.0
Toluene	µg/L		1000 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L		5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	µg/L	0.8 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Hexanone	µg/L			<2.0	<2.0	<2.5	<2.0	<2.0	<2.6	<2.0	<2.0
Dibromochloromethane	µg/L		80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	µg/L	0.001 ***	0.05 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlorobenzene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L		700 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m, p-Xylene	µg/L			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5 ***	80 * THM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2,3-Trichloropropane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
trans-1,4-Dichloro-2-butene	µg/L			<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	4 ***	75 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	µg/L		600 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-chloropropane	µg/L		0.2 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	µg/L	MTCA Method A:	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

GWQS = Water Quality Standards for Ground Waters of the State of Washington (WAC 173-200)

MCL = Maximum Contaminant Level, State Drinking Water Regulations (WAC 246-290)

MTCA = Model Toxics Control Act (WAC 173-340)

^a = Gasoline with no benzene present

* = Primary

** = Secondary

*** = Carcinogen

*THM = Primary MCL for the sum of all trihalomethanes

*XYL = Primary MCL for the sum of all xylenes

█ = Does not meet GWQS, MCL, or MTCA

-- = Not analyzed

C = Estimated; calibration issues due to field meter

J = Estimated value

R = Rejected due to field meter anomalies

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	Trip Blank 2/13/2025	Trip Blank 2/14/2025	Trip Blank 3/31/2025	Trip Blank 5/7/2025	Trip Blank 6/17/2025	Trip Blank 8/4/2025	Trip Blank 9/9/2025	Trip Blank 10/21/2025	Trip Blank 12/2/2025
Field Data												
pH		6.5-8.5		--	--	--	--	--	--	--	--	--
Conductivity	µmhos/cm		700 **	--	--	--	--	--	--	--	--	--
Temperature	C			--	--	--	--	--	--	--	--	--
Redox	mv			--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L			--	--	--	--	--	--	--	--	--
Turbidity	NTU			--	--	--	--	--	--	--	--	--
Metals												
Calcium, Dissolved	mg/L			--	--	--	--	--	--	--	--	--
Iron, Total	mg/L	0.30 **	0.30 **	--	--	--	--	--	--	--	--	--
Iron, Dissolved	mg/L		0.3 **	--	--	--	--	--	--	--	--	--
Magnesium, Total	mg/L			--	--	--	--	--	--	--	--	--
Magnesium, Dissolved	mg/L			--	--	--	--	--	--	--	--	--
Manganese, Total	mg/L	0.05 **	0.05 **	--	--	--	--	--	--	--	--	--
Manganese, Dissolved	mg/L		0.05 **	--	--	--	--	--	--	--	--	--
Potassium, Dissolved	mg/L			--	--	--	--	--	--	--	--	--
Sodium, Dissolved	mg/L			--	--	--	--	--	--	--	--	--
Water Quality Parameters												
Alkalinity, Total	mg CaCO3/L			--	--	--	--	--	--	--	--	--
Ammonia (NH3) as Nitrogen (N)	mg/L			--	--	--	--	--	--	--	--	--
Bicarbonate	mg CaCO3/L			--	--	--	--	--	--	--	--	--
Chloride	mg/L	250 **	250 **	--	--	--	--	--	--	--	--	--
Nitrate	mg/L-N	10 *	10 *	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	250 **	250 **	--	--	--	--	--	--	--	--	--
Total Dissolved Solids	mg/L	500 **	500 **	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L			--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons												
Gasoline Range Organics ^a	µg/L	MTCA Method A:	1000	--	<100	--	--	--	--	--	--	--
TPHDx				--	--	--	--	--	--	--	--	--
Diesel Range Organics	mg/L			--	--	--	--	--	--	--	--	--
Lube Oil Range Organics	mg/L			--	--	--	--	--	--	--	--	--
Total TPHDx	mg/L	MTCA Method A:	0.5	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds												
Chloromethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.02 ***	2 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromomethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.4	<1.0	<1.5
Chloroethane	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11, Trichlorofluoromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	µg/L		7 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acetone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Iodide	µg/L			<1.7	<1.7	<1.3	<1.5	<1.3	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	µg/L	5 ***	5 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acrylonitrile	µg/L	0.07 ***		<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	1 ***		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Acetate	µg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	µg/L		70 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Butanone	µg/L			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Table 6. 2025 Interflow Zone Groundwater Quality Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GWQS	MCL	Trip Blank 2/13/2025	Trip Blank 2/14/2025	Trip Blank 3/31/2025	Trip Blank 5/7/2025	Trip Blank 6/17/2025	Trip Blank 8/4/2025	Trip Blank 9/9/2025	Trip Blank 10/21/2025	Trip Blank 12/2/2025
Volatile Organic Compounds (cont.)												
Bromochloromethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	7 ***	80 * THM	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200 *	200 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	µg/L	0.3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	1 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethene	µg/L	3 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.6 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobromomethane	µg/L	0.3 ***	80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
4-methyl-2-pentanone	µg/L			<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.7	<2.0	<2.0
Toluene	µg/L		1000 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	µg/L		5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	µg/L	0.8 ***	5 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-Hexanone	µg/L			<2.0	<2.0	<2.0	<2.5	<2.0	<2.0	<2.6	<2.0	<2.0
Dibromochloromethane	µg/L		80 * THM	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	µg/L	0.001 ***	0.05 *	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlorobenzene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L		700 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m, p-Xylene	µg/L			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	µg/L		100 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5 ***	80 * THM	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2,2-Tetrachloroethane	µg/L			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2,3-Trichloropropane	µg/L			<0.20	<0.20	<0.27	<0.20	<0.27	<0.20	<0.20	<0.20	<0.20
trans-1,4-Dichloro-2-butene	µg/L			<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	4 ***	75 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	µg/L		600 *	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-chloropropane	µg/L		0.2 *	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	µg/L	MTCA Method A:	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

GWQS = Water Quality Standards for Ground Waters of the State of Washington (WAC 173-200)

MCL = Maximum Contaminant Level, State Drinking Water Regulations (WAC 246-290)

MTCA = Model Toxics Control Act (WAC 173-340)

^a = Gasoline with no benzene present

* = Primary

** = Secondary

*** = Carcinogen

*THM = Primary MCL for the sum of all trihalomethanes

*XYL = Primary MCL for the sum of all xylenes

█ = Does not meet GWQS, MCL, or MTCA

-- = Not analyzed

C = Estimated; calibration issues due to field meter

J = Estimated value

R = Rejected due to field meter anomalies

Table 7. Interflow Zone Groundwater Samples that Failed to Meet Applicable Groundwater Standards in 2025

Analyte	Type of Standard		MW-7D	MW-8D	MW-9D	MW-10D
	GWQS	MCL				
Iron, Total	Secondary	Secondary	--	1A, 2A, 3A	1A, 1B, 2A, 2B	--
Iron, Dissolved	--	Secondary	--	--	1A, 1B, 2A	--
Manganese, Total	Secondary	Secondary	--	--	1A, 1B, 2A, 2B	--
Manganese, Dissolved	--	Secondary	--	--	1A, 1B, 2A, 2B	--

1A = February 2025

1B = March/April 2025

2A = May 2025

2B = June 2025

3A = August 2025

3B = September 2025

4A = October 2025

4B = December 2025

-- = Data did not exceed groundwater standard

GWQS = Water Quality Standards for Groundwaters of the State of Washington (WAC 173-200)

MCL = State Maximum Contaminant Levels (WAC 246-290)

**Table 8. First Quarter 2025 Leachate Quality Monitoring Results, Rocky Top
Environmental Limited Purpose Landfill**

Analyte	Units	Leachate 3/25/2025
Field Data		
pH		7.63
Conductivity	µmhos/cm	187.8
Temperature	C	15.3
Redox	mv	-182.7
Dissolved Oxygen	mg/L	0.19
Turbidity	NTU	0.89
Metals		
Calcium, Total	mg/L	26
Iron, Total	mg/L	0.27
Magnesium, Total	mg/L	9.4
Manganese, Total	mg/L	0.019
Potassium, Total	mg/L	1.8
Sodium, Total	mg/L	12
Water Quality Parameters		
Alkalinity, Total	mg CaCO3/L	64
Ammonia (NH3) as Nitrogen (N)	mg/L	<0.053
Bicarbonate	mg CaCO3/L	36
Chloride	mg/L	3.2
Nitrate	mg/L-N	4.45
Sulfate	mg/L	44
Total Dissolved Solids	mg/L	140
Total Organic Carbon	mg/L	8.6
Total Petroleum Hydrocarbons		
Gasoline Range Organics ^a	µg/L	<100
TPHDx		
Diesel Range Organics	mg/L	0.18
Lube Oil Range Organics	mg/L	0.28
Total TPHDx	mg/L	0.46
Volatile Organic Compounds		
Chloromethane	µg/L	<1.0
Vinyl Chloride	µg/L	<0.020
Bromomethane	µg/L	<1.0
Chloroethane	µg/L	<1.0
CFC-11, Trichlorofluoromethane	µg/L	<0.20
1,1-Dichloroethene	µg/L	<0.20
Acetone	µg/L	<5.0
Methyl Iodide	µg/L	<1.8
Carbon Disulfide	µg/L	<0.20
Methylene Chloride	µg/L	<1.0
Acrylonitrile	µg/L	<0.50
Trans-1,2-Dichloroethene	µg/L	<0.20
1,1-Dichloroethane	µg/L	<0.20
Vinyl Acetate	µg/L	<1.0
cis-1,2-Dichloroethene	µg/L	<0.20
2-Butanone	µg/L	<5.0
Bromochloromethane	µg/L	<0.20
Chloroform	µg/L	<0.20
1,1,1-Trichloroethane	µg/L	<0.20
Carbon Tetrachloride	µg/L	<0.20
Benzene	µg/L	<0.20
1,2-Dichloroethane	µg/L	<0.20
Trichloroethene	µg/L	<0.20
1,2-Dichloropropane	µg/L	<0.20
Dibromomethane	µg/L	<0.20
Dichlorobromomethane	µg/L	<0.20
cis-1,3-Dichloropropene	µg/L	<0.20
4-methyl-2-pentanone	µg/L	<2.0
Toluene	µg/L	<1.0
Trans-1,3-Dichloropropene	µg/L	<0.20
1,1,2-Trichloroethane	µg/L	<0.20
Tetrachloroethene	µg/L	<0.20
2-Hexanone	µg/L	<2.0
Dibromochloromethane	µg/L	<0.20
1,2-Dibromoethane (EDB)	µg/L	<0.020
Chlorobenzene	µg/L	<0.20
1,1,1,2-Tetrachloroethane	µg/L	<0.20
Ethylbenzene	µg/L	<0.20
m, p-Xylene	µg/L	<0.40
o-Xylene	µg/L	<0.20

**Table 8. First Quarter 2025 Leachate Quality Monitoring Results, Rocky Top
Environmental Limited Purpose Landfill**

Analyte	Units	Leachate 3/25/2025
Volatile Organic Compounds (cont.)		
Styrene	µg/L	<0.20
Bromoform	µg/L	<1.0
1,1,2,2-Tetrachloroethane	µg/L	<0.20
1,2,3-Trichloropropane	µg/L	<0.20
trans-1,4-Dichloro-2-butene	µg/L	<0.50
1,4-Dichlorobenzene	µg/L	<0.20
1,2-Dichlorobenzene	µg/L	<0.20
1,2-Dibromo-3-chloropropane	µg/L	<1.0
Naphthalene	µg/L	<1.0

Notes:

^a = Gasoline with no benzene present

Table 9. 2025 Upper Prediction Limit (UPL) and Shewhart Control Limit (SCL) Comparisons

Well	Parameter	UPL (mg/L)	SCL (mg/L)	First Quarter			Second Quarter			Third Quarter			Fourth Quarter		
				1Q Result (mg/L)	UPL Exceedance?	SCL Exceedance?	2Q Result (mg/L)	UPL Exceedance?	SCL Exceedance?	3Q Result (mg/L)	UPL Exceedance?	SCL Exceedance?	4Q Result (mg/L)	UPL Exceedance?	SCL Exceedance?
MW-2S	Ammonia	0.14	--	<0.053	no	--	<0.053	no	--	0.071	no	--	0.065	no	--
	Chloride	18	--	2.7	no	--	2.9	no	--	2.4	no	--	2.2	no	--
	Dissolved Iron	0.281	--	<0.056	no	--	<0.056	no	--	<0.056	no	--	<0.056	no	--
	Total Iron	0.118	--	<0.056	no	--	<0.050	no	--	<0.050	no	--	<0.050	no	--
	Dissolved Manganese	0.1	--	<0.11	no	--	<0.011	no	--	<0.011	no	--	<0.011	no	--
	Total Manganese	0.01	--	<0.11	no	--	<0.010	no	--	<0.010	no	--	<0.010	no	--
	Nitrate	2.092	--	0.702	no	--	0.686	no	--	0.731	no	--	0.703	no	--
	pH	7.86	5.827 - 8.245	7.59	no	no	7.15	no	no	7.26	no	no	7.63	no	no
	Sulfate	10.86	19.01	<5.0	no	no	6.3	no	no	5.5	no	no	5.4	no	no
	Total Dissolved Solids	178	--	160	no	--	140	no	--	120	no	--	120 H	no	--
MW-3S	Ammonia	0.14	--	<0.053	no	--	<0.053	no	--	0.069	no	--	<0.053	no	--
	Chloride	47.39	85.84	68	yes	no	67	yes	no*	67	yes	no*	64	yes	no*
	Dissolved Iron	0.37	--	<0.056	no	--	0.088	no	--	<0.056	no	--	<0.056	no	--
	Total Iron	0.25	--	<0.056	no	--	<0.050	no	--	<0.050	no	--	<0.050	no	--
	Dissolved Manganese	0.03	--	<0.11	no	--	<0.011	no	--	<0.011	no	--	<0.011	no	--
	Total Manganese	0.01	--	<0.11	no	--	<0.010	no	--	<0.010	no	--	<0.010	no	--
	Nitrate	9.837	18.23	11.3	yes	no	12.0	yes	no	11.6	yes	no*	12.4	yes	no*
	pH	7.765	--	7.09	no	--	6.87	no	--	8.83 R	no	--	6.95	no	--
	Sulfate	46.12	81.34	75	yes	no	99	yes	yes*	96	yes	yes*	89	yes	yes*
	Total Dissolved Solids	293.6	533.1	420	yes	no	420	yes	no*	410	yes	no*	400	yes	no*
MW-4S	Ammonia	0.085	--	<0.053	no	--	<0.053	no	--	0.21 J	yes	--	<0.053	no	--
	Chloride	61.57	74.83	49	no	no	51	no	no	42	no	no	36	no	no
	Dissolved Iron	0.056	--	<0.056	no	--	<0.056	no	--	<0.056	no	--	<0.056	no	--
	Total Iron	0.055	--	0.057	yes	--	<0.050	no	--	<0.050	no	--	<0.050	no	--
	Dissolved Manganese	0.011	--	<0.11	no	--	<0.011	no	--	<0.011	no	--	<0.011	no	--
	Total Manganese	0.01	--	<0.11	no	--	<0.010	no	--	<0.010	no	--	<0.010	no	--
	Nitrate	73.89	105.30	62.8	no	no	78.2	yes	no	66.3	no	no	70.5	no	no*
	pH	7.352	6.685 - 7.478	7.13	no	no	6.72	no	no	8.12 R	no	no	6.97	no	no
	Sulfate	168.4	240.7	100	no	no	160	no	no	120	no	no	120	no	no
	Total Dissolved Solids	811.3	1024	710	no	no	720	no	no	640	no	no	720	no	no

Notes:

BOLD = Exceeds the calculated UPL

BOLD = Exceeds the calculated SCL

BOLD* = The cumulative sum (CUSUM; see control chart) exceeds the h value (h=SCL)

H = Holding time exceeded

J = Estimated

R = Rejected

U = Non-detect

-- = Not applicable

1Q = April 2025

2Q = June 2025

3Q = September 2025

4Q = December 2025

Appendix A

2025 Field Data Sheets



Debris to Green Recycling

Water Level Measurement Field Report

DATE 2/12 - 2/14		JOB NO. 553-8472	
PROJECT Yakima JPL		COMPANY NAME DMX	
LOCATION: Rocky Top			
WEATHER SNOW	TEMP	20	° at: AM ° at: PM
PERSONNEL Brady & Nguyen			

THE FOLLOWING WAS NOTED:

WELL NUMBER	Time	Depth to Water (ft below top of casing)	Measuring Point	Screen Interval (ft bgs)
2/13 MW-5S	13:53	217.03	TOC	222-243
2/14 MW-6S	9:29	97.30	TOC	110-130
2/12 MW-7D	13:13	450.62	TOC	475-495
2/13 MW-8D	8:50	302.45	TOC	375-405
2/12 MW-9D	10:10	434.32	TOC	420-440
2/13 MW-10D	16:20	83.52	TOC	150-170

Groundwater Sampling Field Data Sheet

Well #: **MW-5S**

Project Number: _____ Date: 2/13
 Project Name: Yakima LP Company Name: _____
 Project Address: Rocky Top Sampled By: _____

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

@1853

Initial Depth to Water (feet below TOC): 217.03' Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): 222 Date Purged: _____
 Bottom of Screen (feet bgs): 243 Purge Time (from/to): _____
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1540

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
initial	<u>217.03</u>							
<u>1525</u>	—	<u>7.56</u>	<u>384.3</u>	<u>13.9</u>	<u>138.1</u>	<u>9.26</u>	<u>0.0</u>	<u>110/20</u>
<u>1530</u>	—	<u>7.12</u>	<u>742</u>	<u>13.3</u>	<u>128.2</u>	<u>0.50</u>	—	—
<u>1535</u>	—	<u>7.22</u>	<u>764</u>	<u>13.0</u>	<u>115.0</u>	<u>0.28</u>	—	—
<u>1540</u>	—	<u>7.17</u>	<u>765</u>	<u>12.9</u>	<u>110.5</u>	<u>0.22</u>	—	—
Stabilization Criteria		±0.1	±5	±0.2	±10 mv	±0.2 or ±0.5	±10% or ±5.0	

~120 - 150 PSI

Purge Equipment: _____ Flow Rate: 250 mL/min

Laboratory: _____ Date Sent to Lab: _____

Shipment Method: _____ Field QC Sample Number: _____

Remarks: Had to find adapter, YSI keeps turning over.

Signature: _____



Groundwater Sampling Field Data Sheet

Well #: **MW-65**

Project Number: _____	Date: <u>2/14</u>
Project Name: <u>Makina I.P.</u>	Company Name: _____
Project Address: <u>Rocky Top</u>	Sampled By: <u>Nguyen</u>

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____	
Initial Depth to Water (feet below TOC): <u>97.30 @ 929</u>	Purge Rate Measurement Method: _____
Top of Screen (feet bgs): <u>110</u>	Date Purged: _____
Bottom of Screen (feet bgs): <u>130</u>	Purge Time (from/to): <u>9:25 - 10:30</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>9:50</u>

TIME (2400 hr)	DEPTH TO WATER (F)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>initial</u>	<u>97.30</u>		<u>543.3</u>					
<u>930</u>	<u>-</u>	<u>7.71</u>	<u>543.3</u>	<u>10.6</u>	<u>121.6</u>	<u>3.08</u>	<u>-</u>	<u>1/9</u>
<u>935</u>	<u>-</u>	<u>7.56</u>	<u>547.3</u>	<u>10.4</u>	<u>120.0</u>	<u>3.76</u>	<u>2.15</u>	<u>1/9</u>
<u>940</u>	<u>-</u>	<u>7.27</u>	<u>559.7</u>	<u>10.9</u>	<u>120.5</u>	<u>3.34</u>	<u>1.99</u>	
<u>945</u>	<u>-</u>	<u>7.26</u>	<u>570.4</u>	<u>10.4</u>	<u>121.0</u>	<u>3.05</u>	<u>1.76</u>	
<u>950</u>	<u>-</u>	<u>7.25</u>	<u>573.4</u>	<u>10.6</u>	<u>120.9</u>	<u>3.35</u>	<u>1.71</u>	
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		± 0.2	3%	3%	± 10 mv	10%, or 3 <0.5	10%, or 36.0	

90 PSI
65 PSI

Purge Equipment: _____	Flow Rate: <u>350 ml/min</u>
Laboratory: _____	Date Sent to Lab: _____
Shipment Method: _____	Field QC Sample Number: _____

Remarks: DUP, MW-138-0214 collected here, at 1100
YSI keeps shutting off.

Signature: _____



Groundwater Sampling Field Data Sheet

Well #: MW-7D

Project Number: _____ Date: 2/13/25 2/13/25
 Project Name: Yakima LPI Company Name: _____
 Project Address: Rocky Top Sampled By: _____

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): 450.62 ^(12/12) 1313 Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): 475 Date Purged: _____
 Bottom of Screen (feet bgs): 495 Purge Time (from/to): _____
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1320

450.72
213
@ 1140

TIME (2400 Hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>1:40</u>	<u>450.22</u>							
<u>1:50</u>		<u>7.32</u>	<u>210.2</u>	<u>12.2</u>	<u>142.3</u>	<u>6.80</u>	<u>00</u>	<u>40/20</u>
<u>1:55</u>		<u>7.28</u>	<u>203.7</u>	<u>12.1</u>	<u>141.0</u>	<u>4.16</u>		
<u>1:58</u>		<u>7.31</u>	<u>200.1</u>	<u>12.5</u>	<u>139.0</u>	<u>3.00</u>		
<u>1:59</u>		<u>7.34</u>	<u>199.9</u>	<u>12.3</u>	<u>138.0</u>	<u>2.36</u>		
<u>1:59</u>		<u>7.44</u>	<u>199.9</u>	<u>11.3</u>	<u>135.7</u>	<u>1.66</u>		
<u>1:59</u>		<u>7.46</u>	<u>200.9</u>	<u>11.0</u>	<u>135.9</u>	<u>1.46</u>		
<u>1:59</u>		<u>7.46</u>	<u>200.1</u>	<u>11.5</u>	<u>135.3</u>	<u>1.39</u>		
Stabilization Criteria		± 0.1	±%	±%	± 10 mv	10%, or ± 0.5	10%, or 145 C	

Purge Equipment: _____ Flow Rate: 175 mL/min

Laboratory: _____ Date Sent to Lab: _____

Shipment Method: _____ Field QC Sample Number: _____

Remarks: Tubing frozen. YSI sil. conc tubing froze.
YSI keeps shutting off.

Signature: [Signature]

Groundwater Sampling Field Data Sheet

Well #: MW-8D

Project Number: _____ Date: 2/13
 Project Name: Yakima LPI Company Name: _____
 Project Address: Rocky Top Sampled By: N. [Signature]

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): 302.45 0.050 Purge Rate _____
 Measurement Method: _____
 Top of Screen (feet bgs): 375 Date Purged: _____
 Bottom of Screen (feet bgs): 405 Purge Time (from/to): _____
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1035

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen (%)	TURBIDITY (visual)	PUMP SETTING
<u>initial</u>	<u>302.45</u>	<u>7.29</u>	<u>0.367</u>	<u>12.8</u>	<u>167.0</u>	<u>25.5%</u>	<u>0.0</u>	<u>30/30</u>
<u>1020</u>		<u>7.40</u>	<u>0.372</u>	<u>12.8</u>	<u>165.2</u>	<u>13.5%</u>		
<u>1025</u>	<u>303.93</u>	<u>7.45</u>	<u>0.372</u>	<u>12.9</u>	<u>160.0</u>	<u>5.7%</u>		
<u>1030</u>		<u>7.52</u>	<u>0.372</u>	<u>13.2</u>	<u>155.1</u>	<u>5.1%</u>		
<u>1035</u>	<u>305.25</u>	<u>7.66</u>	<u>0.371</u>	<u>13.3</u>	<u>152.4</u>	<u>3.5%</u>		
Stabilization Criteria		±0.1	±%	±%	±10 mv	10%, or ±0.5	10%, or 4 NTU	

Purge Equipment: _____ Flow Rate: 325 ml/min
 Laboratory: _____ Date Sent to Lab: _____
 Shipment Method: _____ Field QC Sample Number: _____

Remarks: very difficult to read YSI due to connection issue.
couldn't touch buttons to change units because YSI would restart.
tubing frozen, had to thaw.

Signature: [Signature]

Groundwater Sampling Field Data Sheet

90
Well # MW-100

Project Number: _____ Date: 2/12/25
 Project Name: Yakima LPI Company Name: _____
 Project Address: Rocky Top Sampled By: MPB

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): 437.32 Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): ~~430~~ 430 Date Purged: _____
 Bottom of Screen (feet bgs): ~~430~~ 440 Purge Time (from/to): 1047 -
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1125

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L %	TURBIDITY (visual)	PUMP SETTING
Initial	<u>437.32</u>							
<u>1104</u>	<u>17</u>	<u>6.55</u>	<u>0.200</u>	<u>10</u>	<u>1970</u>	<u>8.4</u>		<u>60/40 @ 2.10 PSI</u>
<u>1108</u>	<u>21</u>	<u>6.77</u>	<u>0.540</u>	<u>9.2</u>	<u>1877</u>	<u>8.1</u>	<u>3.34</u>	
<u>1110</u>	<u>25</u>	<u>6.81</u>	<u>0.456</u>	<u>11.2</u>	<u>1827</u>	<u>27.8</u>	<u>2.02</u>	
<u>1116</u>	<u>29</u>	<u>6.94</u>	<u>0.430</u>	<u>11.5</u>	<u>1778</u>	<u>23.7</u>	<u>1.44</u>	
<u>1120</u>	<u>33</u>	<u>6.98</u>	<u>0.434</u>	<u>11.3</u>	<u>1788</u>	<u>21.7</u>	<u>1.68</u>	
<u>1124</u>	<u>37</u>	<u>6.96</u>	<u>0.435</u>	<u>10.9</u>	<u>1719</u>	<u>24.9</u>	<u>1.45</u>	
Stabilization Criteria		±0.1	3%	3%	±10 mv	10% or ±0.5	10% or 10.0	

Purge Equipment: _____ Flow Rate: _____

Laboratory: _____ Date Sent to Lab: _____

Shipment Method: _____ Field QC Sample Number: _____

Remarks: 200 ml 150 sec, USE FROZEN, UNBOILED @ 17 mins

Signature: _____



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well # MW00 ¹⁰⁰

Project Number: _____ Date: 2/14
 Project Name: Yakima LLP Company Name: _____
 Project Address: Rocky Top Sampled By: Noguyen

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____
 Initial Depth to Water (feet below TOC): 83.52 ⁽²¹¹³⁾ @ 420 Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): ~~300~~ 147 Date Purged: _____
 Bottom of Screen (feet bgs): ~~410~~ 107 Purge Time (from/to): 820 - 906
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 840

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/l	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>								<u>20/10</u>
<u>815</u>	<u>84.77</u>			<u>11.8</u>				
<u>825</u>	<u>-</u>	<u>7.40</u>	<u>242.0</u>	<u>11.8</u>	<u>113.4</u>	<u>3.31</u>	<u>0.0</u>	
<u>830</u>	<u>-</u>	<u>7.34</u>	<u>241.2</u>	<u>13.1</u>	<u>114.6</u>	<u>3.81</u>	<u>3.20</u>	
<u>835</u>	<u>-</u>	<u>7.33</u>	<u>240.3</u>	<u>13.2</u>	<u>114.9</u>	<u>4.06</u>	<u>2.13</u>	
<u>840</u>	<u>-</u>	<u>7.36</u>	<u>244.5</u>	<u>13.3</u>	<u>113.9</u>	<u>4.12</u>	<u>2.08</u>	
Station Criteria		<u>1.0</u>	<u>3%</u>	<u>3%</u>	<u>±10 mv</u>	<u>10% or 4 KCE</u>	<u>10% or 5.0</u>	

90953

Purge Equipment: _____ Flow Rate: 400 mL/min
 Laboratory: _____ Date Sent to Lab: _____
 Shipment Method: _____ Field QC Sample Number: _____

Remarks: YSI won't stay on. Difficult to record parameters.

Signature: [Signature]

Groundwater Sampling Field Data Sheet

LEACHATE POND

Project Number:		Date:	3/25/2025
Project Name:	Yakima LPL	Company Name:	
Project Address:	Rocky Top	Sampled By:	Mike Brady, Neerajy Shrestha, Foster Burke

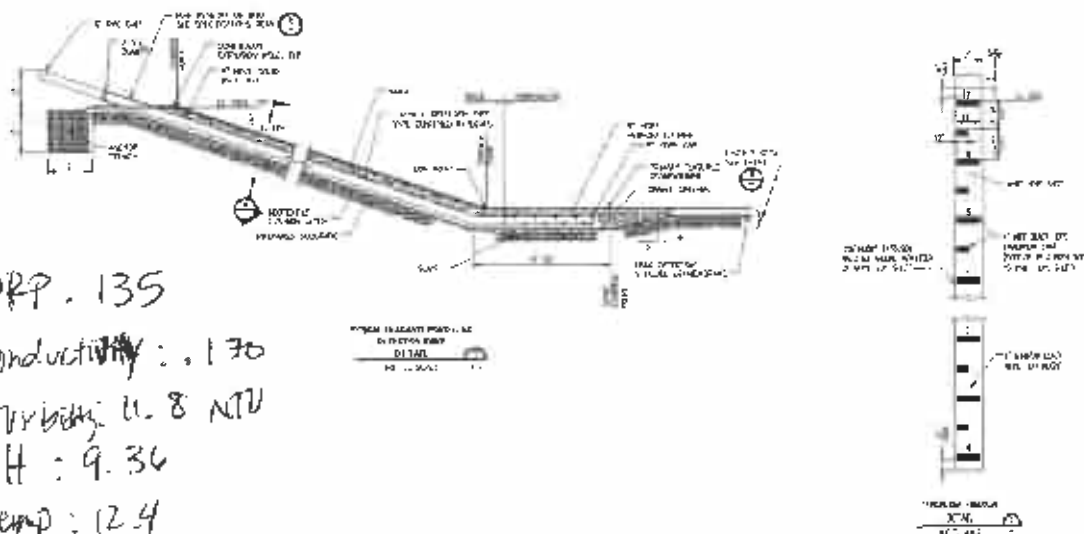
Water Depth in the Pond? 6.5'

Sample Collected?

Water present in the sump? Yes, 32.4' Total sump length: 33.5'

Sampling Equipment:	Perc Pump	Flow Rate:	300 mL/min
Laboratory:		Date Sent to Lab:	
Shipment Method:		Field QC Sample Number:	

Remarks:



Signature: _____

Groundwater Sampling Field Data Sheet

Well # MW-25 *520*

Project Number: _____ Date: 4/1/25
 Project Name: Yakima LPI Company Name: PMX
 Project Address: Rocky Top Sampled By: K Burke / S Nguyen

Casing Diameter: 2" 4" 6" Other _____

Initial Depth to Water (feet below TOC): 287.71 Purge Rate Measurement Method: Graduated cylinder
 Top of Screen (feet bgs): 310 Date Purged: 4/1/25
 Bottom of Screen (feet bgs): 330 Purge Time (from/to): 11:19 -
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 11:53

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	<u>287.71</u>						<u>ppt</u>	<u>30/30</u>
<u>11:23</u>	<u>285.42</u>	<u>7.39</u>	<u>0.120</u>	<u>12.50</u>	<u>202</u>	<u>5.28</u>	<u>0.06</u>	<u>170</u>
<u>11:27</u>		<u>7.18</u>	<u>0.120</u>	<u>12.93</u>	<u>197</u>	<u>5.24</u>	<u>0.06</u>	
<u>11:32</u>		<u>7.41</u>	<u>0.120</u>	<u>13.34</u>	<u>188</u>	<u>7.06</u>	<u>0.06</u>	
<u>11:37</u>	<u>283.71</u>	<u>7.40</u>	<u>0.120</u>	<u>13.36</u>	<u>189</u>	<u>8.22</u>	<u>0.06</u>	
<u>11:42</u>		<u>7.56</u>	<u>0.120</u>	<u>13.64</u>	<u>197</u>	<u>7.16</u>	<u>0.06</u>	
<u>11:47</u>	<u>288.78</u>	<u>7.56</u>	<u>0.120</u>	<u>13.72</u>	<u>191</u>	<u>7.18</u>	<u>0.06</u>	
<u>11:52</u>		<u>7.59</u>	<u>0.120</u>	<u>13.73</u>	<u>192</u>	<u>7.28</u>	<u>0.06</u>	
<u>11:57</u>								
Stabilization Criteria		- 0.1	±%	±%	+ 10 mv	10% or 3 <0.1	10% or 3 <5.0	

Purge Equipment: MPI11 Flow Rate: 350 ml/min
 Laboratory: _____ Date Sent to Lab: _____
 Shipment Method: _____ Field QC Sample Number: _____

Remarks:

Signature: _____

Groundwater Sampling Field Data Sheet

Well #: MW-3S

Project Number: _____ Date: 3-31-25
 Project Name: Yakima LPI Company Name: PMX
 Project Address: Rocky Top Sampled By: Chris Bourgeois

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): 178.74 Purge Rate Measurement Method: 320 ml/min
 Top of Screen (feet bgs): 188 Date Purged: 3-31-25
 Bottom of Screen (feet bgs): 198 Purge Time (from to): 13:54 - 14:22
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1424

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen (mg/L)	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>								
<u>1402</u>	<u>179.20</u>	<u>7.31</u>	<u>0.430</u>	<u>13.55</u>	<u>154</u>	<u>5.61</u>	<u>0.21</u>	<u>40/20</u>
<u>1407</u>	<u>179.21</u>	<u>7.15</u>	<u>0.431</u>	<u>13.61</u>	<u>161</u>	<u>4.35</u>	<u>0.21</u>	<u>100%</u>
<u>1412</u>	<u>179.21</u>	<u>7.13</u>	<u>0.432</u>	<u>13.64</u>	<u>165</u>	<u>4.24</u>	<u>0.21</u>	<u>↓</u>
<u>1417</u>	<u>179.22</u>	<u>7.10</u>	<u>0.431</u>	<u>13.66</u>	<u>170</u>	<u>4.43</u>	<u>0.21</u>	<u>↓</u>
<u>1422</u>	<u>179.20</u>	<u>7.09</u>	<u>0.431</u>	<u>13.69</u>	<u>172</u>	<u>4.77</u>	<u>0.21</u>	<u>↓</u>
Stabilization Criteria		+0.1	3%	3%	+10 mv	10% or <0.5	10% or <5.0	

Purification Equipment: MPDH Flow Rate: _____

Laboratory: _____ Date Sent to Lab: _____

Shipment Method: _____ Field QC Sample Number: _____

Remarks: _____

Signature: _____

Groundwater Sampling Field Data Sheet

Well #: MW-4S

Project Number: _____ Date: 4-1-25

Project Name: Yakima P. Company Name: _____

Project Address: Rocky Top Sampled By: K. Burke S. Nguyen

Casing Diameter: 2" 4" 6" Other _____

Initial Depth to Water (feet below TOC): 28.40 Purge Rate Measurement Method: Graduated cylinder
350 ml/min

Top of Screen (feet bgs): 49.5 Date Purged: 3 4-1-25

Bottom of Screen (feet bgs) (49.5) Purge Time (from/to): 9:50-9:55

Reference Point (surveyor's notch, etc.): _____ Time Sampled: 9:55

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial								
<u>0953</u>	<u>28.73</u>	<u>7.18</u>	<u>0.774</u>	<u>12.31</u>	<u>203</u>	<u>5.81</u>	<u>0.38</u>	<u>30/30</u>
<u>0938</u>	<u>28.67</u>	<u>7.17</u>	<u>0.770</u>	<u>12.32</u>	<u>197</u>	<u>4.61</u>	<u>0.37</u>	<u>70 P</u>
<u>0943</u>	<u>28.69</u>	<u>7.14</u>	<u>0.760</u>	<u>12.38</u>	<u>191</u>	<u>5.16</u>	<u>0.37</u>	
<u>0948</u>	<u>28.67</u>	<u>7.14</u>	<u>0.757</u>	<u>12.39</u>	<u>191</u>	<u>5.12</u>	<u>0.37</u>	
<u>0953</u>	<u>28.72</u>	<u>7.13</u>	<u>0.752</u>	<u>12.38</u>	<u>187</u>	<u>5.77</u>	<u>0.30</u>	
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or ± 0.5	10%, or 3.0	

Purge Equipment: _____ Flow Rate: _____

Laboratory: _____ Date Sent to Lab: _____

Shipment Method _____ Field QC Sample Number: _____

Remarks: Needs replacement lock on well

Signature: _____

Handwritten initials



Doing It Green
Recycling

Groundwater Sampling Field Data Sheet

we

Well # MW-55

Project Number: _____ Date: 3-31-25

Project Name: Yakima LPL Company Name: PMX

Project Address: Rocky Top Sampled By: ~~Chris Horgan~~ Kater Burke

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): 216.18 Purge Rate Measurement Method: 190 ml/min

Top of Screen (feet bgs): 222 Date Purged: 3-31-25

Bottom of Screen (feet bgs): 243 Purge Time (hours): 11:30

Reference Point (surveyor's notch, etc.): _____ Time Sampled: _____

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm @25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen (mg/L)	TURBIDITY (nephelometric units)	PUMP SETTING
<i>Initial</i>								
<u>11:50</u>	<u>216.19</u>	<u>7.40</u>	<u>0.432</u>	<u>13.70</u>	<u>-25</u>	<u>11.45</u>	<u>0.21</u>	<u>40/20</u>
<u>11:55</u>	<u>216.19</u>	<u>7.52</u>	<u>0.486</u>	<u>13.75</u>	<u>-95</u>	<u>10.91</u>	<u>0.23</u>	<u>128</u>
<u>12:00</u>	<u>216.20</u>	<u>7.72</u>	<u>0.514</u>	<u>13.72</u>	<u>-147</u>	<u>10.23</u>	<u>0.25</u>	
<u>12:05</u>	<u>216.20</u>	<u>7.79</u>	<u>0.523</u>	<u>13.72</u>	<u>-168</u>	<u>7.19</u>	<u>0.25</u>	
<u>12:10</u>	<u>216.20</u>	<u>7.85</u>	<u>0.527</u>	<u>13.72</u>	<u>-179</u>	<u>8.55</u>	<u>0.25</u>	
<u>12:15</u>	<u>216.2</u>	<u>7.88</u>	<u>0.527</u>	<u>13.74</u>	<u>-181</u>	<u>8.01</u>	<u>0.25</u>	
<u>12:28</u>	<u>216.</u>	<u>7.87</u>	<u>0.525</u>	<u>13.76</u>	<u>-187</u>	<u>8.75</u>	<u>0.25</u>	
Stabilization Criteria		± 0.1	±%	±%	± 10 mv	10%, or 3 0.5	10%, or 3 0.5	

MP110

Purge Equipment: MPTD H Flow Rate: _____

Laboratory: _____ Date Sent to Lab: _____

Shipment Method: _____ Field QC Sample Number: _____

Remarks:

Signature: _____

Groundwater Sampling Field Data Sheet

Well #: **MW-6S**

Project Number: _____ Date: **4-1-25**
 Project Name: **Yakima LPL** Company Name: _____
 Project Address: **Rocky Top** Sampled By: **Barker & Nguyen**

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): **95.02** Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): **110** Date Purged: _____
 Bottom of Screen (feet bgs): **130** Purge Time (from/to): **1430 -**
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: **1455**

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	95.02							
1435	95.61	7.71	0.373	12.14	175	4.98	0.2	10/20 ~ 150PSI
1440	95.90	7.62	0.401	12.26	172	4.65	0.0	
1445	-	7.52	0.402	12.14	173	4.45	0.2	
1450	95.91	7.53	0.401	11.90	172	4.55	0.0	30/30
1455	96.31	7.51	0.389	12.36	165	4.26	0.5	
Stabilization Criteria		± 0.1	5%	3%	< 10 mv	10% or 3 < 0.5	10% or 3 < 0.5	

Purge Equipment: _____ Flow Rate: **380 ml/min**

Laboratory: _____ Date Sent to Lab: _____

Shipment Method: _____ Field QC Sample Number: **MW-13S @ 900**

Remarks: **DUP, MW-13S-_____ collected here, at:**

Signature: _____

Groundwater Sampling Field Data Sheet

Well #: MW-7D

Project Number: _____	Date: <u>3/31/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>Parametrix</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>N. Jansen</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet below TOC): <u>450.30'</u>	Purge Rate Measurement Method: _____
Top of Screen (feet bgs): <u>475</u>	Date Purged: _____
Bottom of Screen (feet bgs): <u>495</u>	Purge Time (from/to): <u>11:25 - 12:21</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>12:05</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>	<u>450.30'</u>							
<u>11:30</u>	<u>-</u>	<u>7.64</u>	<u>187.2</u>	<u>13.6</u>	<u>-91.1</u>	<u>8.68</u>	<u>-</u>	<u>40/35</u> ~240 PSI
<u>11:35</u>	<u>-</u>	<u>7.35</u>	<u>188.0</u>	<u>14.5</u>	<u>-102.2</u>	<u>3.73</u>	<u>1.17</u>	
<u>11:40</u>	<u>-</u>	<u>7.55</u>	<u>87.7</u>	<u>14.9</u>	<u>-126.3</u>	<u>1.29</u>	<u>1.16</u>	
<u>11:45</u>	<u>-</u>	<u>7.66</u>	<u>187.8</u>	<u>15.1</u>	<u>-150.3</u>	<u>0.48</u>	<u>1.32</u>	
<u>11:50</u>	<u>-</u>	<u>7.66</u>	<u>187.8</u>	<u>15.1</u>	<u>-162.3</u>	<u>0.39</u>	<u>1.08</u>	
<u>11:55</u>	<u>-</u>	<u>7.65</u>	<u>188.0</u>	<u>15.7</u>	<u>-175.5</u>	<u>0.29</u>	<u>0.93</u>	
<u>12:00</u>	<u>-</u>	<u>7.63</u>	<u>187.8</u>	<u>15.2</u>	<u>-183.1</u>	<u>0.28</u>	<u>1.23</u>	
<u>12:05</u>	<u>-</u>	<u>7.43</u>	<u>187.8</u>	<u>15.3</u>	<u>-182.7</u>	<u>0.19</u>	<u>0.89</u>	
Stabilization Criteria		±0.1	%	%	+10 mv	10% or 4 <0.5	10% or 3-5 U	

Purge Equipment: _____	Flow Rate: <u>450 mL/min</u>
Laboratory: _____	Date Sent to Lab: _____
Shipment Method: _____	Field QC Sample Number: _____

Remarks: _____

Signature: _____

Groundwater Sampling Field Data Sheet

ce a

Well #: **MW-BD**

Project Number: _____	Date: <u>4/11/25</u>
Project Name: <u>Yakima I.P.L.</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>K. Burnett S. Nguyen</u>

Casing Diameter: 2" 4" 6" Other _____

Initial Depth to Water (feet below IOC): <u>301.82</u>	Purge Rate Measurement Method: _____
Top of Screen (feet bgs): <u>375</u>	Date Purged: <u>4/11/25</u>
Bottom of Screen (feet bgs): <u>405</u>	Purge Time (from/to): <u>12:39 - 1:32 p</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1:32 p</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	<u>301.82</u>						<u>PP+</u>	
<u>1245</u>		<u>7.76</u>	<u>0.246</u>	<u>12.71</u>	<u>196</u>	<u>4.41</u>	<u>0.12</u>	<u>34/30</u> <i>si</i>
<u>1250</u>								
<u>1255</u>	<u>302.79</u>	<u>7.80</u>	<u>0.244</u>	<u>11.86</u>	<u>200</u>	<u>2.52</u>	<u>0.11</u>	<u>30/34</u> <i>2-10 PSI</i>
<u>1300</u>	<u>302.94</u>	<u>7.88</u>	<u>0.244</u>	<u>11.98</u>	<u>164</u>	<u>1.09</u>	<u>0.11</u>	<u>26/30</u> <i>si</i>
<u>1315</u>	<u>303.54</u>	<u>7.82</u>	<u>0.245</u>	<u>12.24</u>	<u>148</u>	<u>0.25</u>	<u>0.12</u>	
<u>1320</u>	<u>303.79</u>	<u>7.92</u>	<u>0.245</u>	<u>12.34</u>	<u>132</u>	<u>0.00</u>	<u>0.12</u>	
<u>1325</u>	<u>303.85</u>	<u>7.92</u>	<u>0.245</u>	<u>12.29</u>	<u>130</u>	<u>0.00</u>	<u>0.12</u>	
Stabilization Criteria		+0.1	5%	5%	+10 mv	10% or 3<E>0.2	10% or 3<E>5.0	

*pump stopped →
1305
1310
ca*

Purge Equipment: _____	Flow Rate: <u>340 ml/min</u>
Laboratory: <u>Anatek</u>	Date Sent to Lab: _____
Shipment Method: _____	Field QC Sample Number: _____

Remarks:

Signature: _____

Groundwater Sampling Field Data Sheet

Well #: MW-8D

Project Number: _____		Date: <u>3/31/25</u>						
Project Name: <u>Yakima I.P.L.</u>		Company Name: _____						
Project Address: <u>Rocky Top</u>		Sampled By: <u>Nguyen</u>						
Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> Other _____								
Initial Depth to Water (feet below TOC): <u>424.90'</u>		Purge Rate Measurement Method: _____						
Top of Screen (feet bgs): <u>420</u>		Date Purged: _____						
Bottom of Screen (feet bgs): <u>440</u>		Purge Time (from/to): <u>1357 - 1500</u>						
Reference Point (surveyor's notch, etc.): _____		Time Sampled: <u>1425</u>						
TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial	<u>424.90'</u>							
<u>1400</u>	<u>425.28'</u>	<u>7.38</u>	<u>453.1</u>	<u>12.5</u>	<u>-139.1</u>	<u>0.17</u>	<u>0.93</u>	<u>60/40</u> ~230PSI
<u>1405</u>	<u>--</u>	<u>7.32</u>	<u>456.7</u>	<u>12.5</u>	<u>-145.8</u>	<u>0.17</u>	<u>2.09</u>	
<u>1410</u>	<u>425.41</u>	<u>7.31</u>	<u>454.3</u>	<u>12.5</u>	<u>-155.0</u>	<u>0.14</u>	<u>1.22</u>	
<u>1415</u>	<u>--</u>	<u>7.32</u>	<u>458.9</u>	<u>12.4</u>	<u>-163.3</u>	<u>0.11</u>	<u>1.17</u>	
<u>1420</u>	<u>425.50</u>	<u>7.29</u>	<u>459.5</u>	<u>12.3</u>	<u>-168.9</u>	<u>0.09</u>	<u>0.97</u>	
<u>1425</u>	<u>425.61</u>	<u>7.28</u>	<u>460.4</u>	<u>12.0</u>	<u>-171.4</u>	<u>0.07</u>		
Stabilization Criteria		<u>0.1</u>	<u>3%</u>	<u>3%</u>	<u>± 20 mv</u>	<u>10% or 3</u> <u>< 0.5</u>	<u>10% or less</u>	
Purge Equipment: _____		Flow Rate: <u>170 ml/min</u>						
Laboratory: _____		Date Sent to Lab: _____						
Shipment Method: _____		Field QC Sample Number: _____						
Remarks: <u>midway through sampling switched to 60/100</u>								
Signature: _____								



Groundwater Sampling Field Data Sheet

Well #: MW-10D

Project Number: _____ Date: 3/31/25
 Project Name: Yakima L.P.I. Company Name: _____
 Project Address: Rocky Top Sampled By: _____

Casing Diameter: 2" 4" 6" Other _____

Initial Depth to Water (feet below TOC): 82.15' Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): 147 Date Purged: _____
 Bottom of Screen (feet bgs): 167 Purge Time (from/to): 1545 - 1641
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1625

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>initial</u>	—	<u>7.63</u>	<u>227.2</u>	<u>12.5</u>	<u>47.4</u>	<u>8.33</u>	—	—
<u>1555</u>	<u>82.59</u>	<u>7.22</u>	<u>227.1</u>	<u>12.1</u>	<u>-103.8</u>	<u>3.62</u>	<u>1.56</u>	—
<u>1600</u>	—	<u>7.21</u>	<u>227.5</u>	<u>14.7</u>	<u>-109.1</u>	<u>2.97</u>	<u>1.94</u>	—
<u>1605</u>	—	<u>7.26</u>	<u>227.6</u>	<u>14.0</u>	<u>-104.1</u>	<u>3.94</u>	<u>2.14</u>	—
<u>1610</u>	<u>83.99</u>	<u>7.15</u>	<u>227.9</u>	<u>13.9</u>	<u>-105.0</u>	<u>4.51</u>	<u>1.44</u>	—
<u>1615</u>	—	—	—	—	<u>-106.2</u>	<u>4.43</u>	<u>1.23</u>	—
<u>1620</u>	—	<u>7.27</u>	<u>227.6</u>	<u>13.4</u>	<u>-107.6</u>	<u>4.48</u>	—	—
<u>1625</u>	<u>83.94</u>	<u>7.28</u>	<u>227.8</u>	<u>13.2</u>	<u>-108.9</u>	<u>4.49</u>	<u>0.99</u>	—
Stabilization Criteria		± 0.1	3%	± 0.2	± 10 mv	10% or 3 ± 0.5	10% or 3 ± 0.2	

OK 3/31

Purge Equipment: _____ Flow Rate: _____
 Laboratory: _____ Date Sent to Lab: _____
 Shipment Method: _____ Field QC Sample Number: _____

Remarks:

Signature: _____



Environmental Inc.
 16200 NE 24th Street, Redmond, WA 98073
 Phone: (425) 883-3851 • Fax: (425) 883-3852

Chain of Custody

Turnaround Request (in working days)
 Laboratory Number: **04-035**

Company: **Parametrix / DTG**

Project Number: **553-8472-006**

Project Name: **Rocky Top Environmental LPL**

Project Manager: **Laura Lee**

Sampled by: **William A Burke**

Date: **4/1**

Sample Identification: **1533 N(110)**

Matrix: **18**

Number of Containers: **18**

VOCs (259): **X**

SWPH-CX: **X**

Total Metals (Pb, Cd, Hg, Mn, Ni, Cu, Zn, Cr, Al, Fe, V, Mo, Se): **X**

Total Metals (Pb, Cd, Hg, Mn, Ni, Cu, Zn, Cr, Al, Fe, V, Mo, Se): **X**

Dis. Priority Metals (Pb, Cd, Hg, Mn, Ni, Cu, Zn, Cr, Al, Fe, V, Mo, Se): **X**

Organic Metals (Pb, Cd, Hg, Mn, Ni, Cu, Zn, Cr, Al, Fe, V, Mo, Se): **X**

Asbestos: **X**

PCBs: **X**

PAHs: **X**

Trace Metals: **X**

Other: **X**

Comments: **1349**

Signature: *[Signature]*

Turnaround Request (in working days)
 Same Day
 1 Day
 2 Days
 3 Days

Standard (7 Days)
 Standard (7 Days)
 Expedited (3 Days)

Matrix
 Other

Date Sampled	Time Sampled	Matrix	Number of Containers	VOCs (259)	SWPH-CX	Total Metals (Pb, Cd, Hg, Mn, Ni, Cu, Zn, Cr, Al, Fe, V, Mo, Se)	Dis. Priority Metals (Pb, Cd, Hg, Mn, Ni, Cu, Zn, Cr, Al, Fe, V, Mo, Se)	Organic Metals (Pb, Cd, Hg, Mn, Ni, Cu, Zn, Cr, Al, Fe, V, Mo, Se)	Asbestos	PCBs	PAHs	Trace Metals	Other
4/1	1533	N(110)	18	X	X	X	X	X	X	X	X	X	X
4/1	1424		18	X	X	X	X	X	X	X	X	X	X
4/1	0855		18	X	X	X	X	X	X	X	X	X	X
4/1	1223		26	X	X	X	X	X	X	X	X	X	X
4/1	1455		18	X	X	X	X	X	X	X	X	X	X
4/1	0900		18	X	X	X	X	X	X	X	X	X	X
4/1	1305		18	X	X	X	X	X	X	X	X	X	X
4/1	1326		18	X	X	X	X	X	X	X	X	X	X
4/1	1425		18	X	X	X	X	X	X	X	X	X	X
4/1	1025		18	X	X	X	X	X	X	X	X	X	X

Company: **Parametrix**

Signature: *[Signature]*

Date: **4/2/05**

Time: **1349**

Comments: **1349**

Signature: *[Signature]*



Water Level Measurement Field Report

DATE: <u>5/6/25</u>	JOB NO.:
PROJECT: <u>Yakima LPL</u>	COMPANY NAME: <u>PMX</u>
LOCATION: <u>Rocky Top</u>	
WEATHER: <u>Sunny</u>	TEMP: <u>70-80°F</u> ° at _____ AM ° at _____ PM
PERSONNEL: <u>C. Bourgeois B. Hines W. Shafter</u>	

THE FOLLOWING WAS NOTED:

WELL NUMBER	Time	Depth to Water (ft below top of casing)	Measuring Point	Screen Interval (ft bgs)
MW-2S			TOC	310-330
MW-3S			TOC	188-198
MW-4S			TOC	49.5 - 69.5
MW-5S	<u>1110 AM</u>	<u>216.26</u>	TOC	222-243
MW-6S	<u>1525 PM</u>	<u>94.37</u>	TOC	110-130
MW-7D	<u>1215 PM</u>	<u>NO reading</u>	TOC	475-495
MW-8D	<u>1329 PM</u>	<u>301.6</u>	TOC	375-405
MW-9D	<u>1605</u>	<u>430.18</u>	TOC	420-440
MW-10D	<u>0820</u>	<u>80.83</u>	TOC	150-170



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well #: MW-5S

Project Number: _____ Date: 5/7/25
 Project Name: Yakima I.P.I. Company Name: PMX
 Project Address: Rocky Top Sampled By: _____

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): 216.26 Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): 222 Date Purged: 5/7/25
 Bottom of Screen (feet bgs): 243 Purge Time (from/to): 0910 - 0952 50
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1000

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>	<u>216.26</u>		<u>4513</u>					
<u>0910</u>	<u>216.26</u>	<u>7.4</u>	<u>757</u>	<u>14.5</u>	<u>267</u>	<u>9.31</u>	<u>2.73</u>	<u>40/30 150 PSI</u>
<u>0917</u>	<u>216.26</u>	<u>7.47</u>	<u>757</u>	<u>14.5</u>	<u>227.1</u>	<u>1.69</u>	<u>2.44</u>	<u>"</u>
<u>0922</u>	<u>216.3</u>	<u>7.71</u>	<u>792</u>	<u>14.7</u>	<u>76.2</u>	<u>0.97</u>	<u>3.85</u>	
<u>0925</u>	<u>216.26</u>	<u>7.85</u>	<u>745</u>	<u>15.0</u>	<u>-63.8</u>	<u>0.87</u>	<u>9.40</u>	
<u>0932</u>	<u>"</u>	<u>7.9</u>	<u>765</u>	<u>15.9</u>	<u>-108.8</u>	<u>1.18</u>	<u>5.75</u>	
<u>0937</u>	<u>216.27</u>	<u>7.87</u>	<u>753</u>	<u>17.3</u>	<u>-114.8</u>	<u>1.49</u>	<u>12.26</u>	
<u>0948</u>		<u>7.84</u>	<u>754</u>	<u>18.8</u>	<u>-121.5</u>	<u>1.56</u>	<u>18.45</u>	
<u>0947</u>		<u>7.90</u>	<u>719</u>	<u>16.8</u>	<u>-130</u>	<u>1.19</u>	<u>33</u>	<u>30/30 150 PSI</u>
<u>0452</u>		<u>7.92</u>	<u>681</u>	<u>16.2</u>	<u>-135.1</u>	<u>1.03</u>	<u>77.5</u>	
Stabilization Criteria		= 0.1	3%	3%	= 10 mv	10%, or 3 < 0.5	10%, or 3 < 5.0	

Purge Equipment: _____ Flow Rate: 400 ml/m

Laboratory: _____ Date Sent to Lab: _____

Shipment Method: _____ Field QC Sample Number: MW-135 0800

Remarks: _____

Signature: [Signature]

Groundwater Sampling Field Data Sheet

Well #: MW-6S

Project Number: <u>553-2472-006</u>	Date: <u>5/7/25</u>
Project Name: <u>Yakima I.PL</u>	Company Name: <u>Parametho</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Chris Dougan, Piri Hines, W. Steve Plav, S. Nguyen</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet below TOC): <u>94.37</u>	Purge Rate Measurement Method: _____
Top of Screen (feet bgs): <u>110</u>	Date Purged: <u>5/7/25</u>
Bottom of Screen (feet bgs): <u>130</u>	Purge Time (from/to): <u>15:00 - 15:40</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>15:25</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	<u>94.37</u>							
<u>15:05</u>	<u>94.61</u>	<u>7.90</u>	<u>600</u>	<u>13.0</u>	<u>113.9</u>	<u>9.72</u>	<u>1.22</u>	<u>11/9 85 PSI</u>
<u>15:10</u>	<u>95.12</u>	<u>7.38</u>	<u>613</u>	<u>13.8</u>	<u>121.5</u>	<u>4.52</u>	<u>1.09</u>	<u>11/9, 70 PSI</u>
<u>15:15</u>	<u>95.26</u>	<u>7.33</u>	<u>617</u>	<u>13.8</u>	<u>120.5</u>	<u>4.79</u>	<u>1.17</u>	
<u>15:20</u>	<u>95.44</u>	<u>7.31</u>	<u>615</u>	<u>13.7</u>	<u>121.1</u>	<u>4.75</u>	<u>1.18</u>	
<u>15:25</u>								
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10% or 3 g/L	10% or 35 NTU	

Purge Equipment: _____	Flow Rate: <u>260/min</u>
Laboratory: _____	Date Sent to Lab: _____
Shipment Method: _____	Field QC Sample Number: _____

Remarks: DUP, MW-13S-_____ collected here, at:

Signature: 

Groundwater Sampling Field Data Sheet

Well #: MW-7D

Project Number: 553-8472-006 Date: 5/18/25
 Project Name: Yakima LLP Company Name: _____
 Project Address: Rocky Top Sampled By: Chris Bourgeois *Bithus U-Shauffer*

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____
 Initial Depth to Water (feet below TOC): _____ Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): 475 Date Purged: 5/17/25
 Bottom of Screen (feet bgs): 495 Purge Time (from/to): 1215-1335
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1306

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (Visual)	PUMP SETTING
<i>Initial</i>	_____	_____	_____	_____	_____	_____	_____	_____
<u>12:20</u>	_____	<u>8.41</u>	<u>205.1</u>	<u>20.4</u>	<u>57.6</u>	<u>9.20</u>	<u>27.70</u>	<u>40/35, 240 PSI</u>
<u>12:25</u>	_____	<u>8.01</u>	<u>197.5</u>	<u>15.7</u>	<u>50.7</u>	<u>9.30</u>	<u>31.32</u>	_____
<u>12:30</u>	_____	<u>7.76</u>	<u>197.0</u>	<u>15.5</u>	<u>62.7</u>	<u>8.93</u>	<u>34.19</u>	_____
<u>12:35</u>	_____	<u>7.64</u>	<u>197.0</u>	<u>15.7</u>	<u>70.0</u>	<u>6.52</u>	<u>26.62</u>	_____
<u>12:40</u>	_____	<u>7.72</u>	<u>198.5</u>	<u>15.6</u>	<u>62.2</u>	<u>3.43</u>	<u>29.86</u>	_____
<u>12:45</u>	_____	<u>7.82</u>	<u>198.2</u>	<u>15.6</u>	<u>-1.2</u>	<u>3.35</u>	<u>28.18</u>	_____
<u>12:50</u>	_____	<u>7.87</u>	<u>198.3</u>	<u>15.7</u>	<u>-49.1</u>	<u>3.31</u>	<u>26.27</u>	_____
<u>12:55</u>	_____	<u>7.91</u>	<u>199.9</u>	<u>15.9</u>	<u>-88.0</u>	<u>3.15</u>	<u>26.32</u>	_____
<u>13:00</u>	_____	<u>7.92</u>	<u>199.4</u>	<u>15.8</u>	<u>-95.1</u>	<u>3.22</u>	<u>16.6</u>	_____
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3	10%, or 3 < 5.0	
<u>13:05</u>	_____	<u>7.92</u>	<u>199.2</u>	<u>15.9</u>	<u>-102.3</u>	<u>3.19</u>	<u>24.91</u>	_____

Purge Equipment: _____ Flow Rate: 310 ml/min
 Laboratory: _____ Date Sent to Lab: _____
 Shipment Method: _____ Field QC Sample Number: _____

Remarks: Couldn't read water level still 25
4/4 6.11 - measured water level
5/8

Signature: [Signature]

Groundwater Sampling Field Data Sheet

Well #: MW-8D

Project Number: _____ Date: 5/7/25
 Project Name: Yakima J.P.I. Company Name: _____
 Project Address: Rocky Top Sampled By: CHP's Housheer

Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet below TOC): 301.60 Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): 375 Date Purged: 5/7/25
 Bottom of Screen (feet bgs): 405 Purge Time (from/to): 1349 -- 1420
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1425

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	<u>301.60</u>							
<u>1350</u>		<u>8.00</u>	<u>377.2</u>	<u>13.6</u>	<u>97.3</u>	<u>7.72</u>	<u>2.8</u>	<u>30/30</u>
<u>1355</u>		<u>7.85</u>	<u>374.1</u>	<u>14.4</u>	<u>98.5</u>	<u>2.14</u>	<u>3.71</u>	<u>11</u>
<u>1400</u>	<u>303.80</u>	<u>7.89</u>	<u>367.7</u>	<u>15.0</u>	<u>92.5</u>	<u>0.87</u>	<u>16.87</u>	<u>11</u>
<u>1405</u>	<u>303.58</u>	<u>7.94</u>	<u>366.1</u>	<u>15.2</u>	<u>85.2</u>	<u>0.8</u>	<u>47.28</u>	
<u>1410</u>	<u>304.51</u>	<u>7.92</u>	<u>365.3</u>	<u>15.3</u>	<u>86.1</u>	<u>0.83</u>	<u>71.20</u>	
<u>1415</u>		<u>7.95</u>	<u>363.2</u>	<u>15.3</u>	<u>76.1</u>	<u>0.80</u>	<u>89.71.50</u>	
<u>1420</u>	<u>305.08</u>	<u>7.98</u>	<u>363.5</u>	<u>15.3</u>	<u>71</u>	<u>0.76</u>	<u>89</u>	
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 < 5	10%, or 3<5	

210 PSI
240 PSI
11

Purge Equipment: _____ Flow Rate: 460
 Laboratory: _____ Date Sent to Lab: _____
 Shipment Method: _____ Field QC Sample Number: _____

Remarks:
Water level fluctuating during sampling

Signature: [Handwritten Signature]

Groundwater Sampling Field Data Sheet

Well #: **MW-9D**

Project Number: _____ Date: 5/7/25
 Project Name: Yakima LPL Company Name: _____
 Project Address: Rocky Top Sampled By: Chloe Bruneau, W. Sautter, B. Harris, S. Nguyen

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): 430.10 Purge Rate Measurement Method: _____
 Top of Screen (feet bgs): 420 Date Purged: 5/7/25
 Bottom of Screen (feet bgs): 440 Purge Time (from/to): 1604 - 1650
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1655

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	<u>430.10</u>							
<u>1605</u>	<u>430.40</u>	<u>7.61</u>	<u>410.5</u>	<u>15.3</u>	<u>115.3</u>	<u>7.75</u>	<u>8.17</u>	<u>60/40</u>
<u>1610</u>	<u>430.72</u>	<u>7.40</u>	<u>397.1</u>	<u>14.7</u>	<u>127.4</u>	<u>7.36</u>	<u>7.15</u>	<u>"</u>
<u>1615</u>	<u>431.0</u>	<u>7.24</u>	<u>385.6</u>	<u>14.8</u>	<u>131.4</u>	<u>6.21</u>	<u>1.74</u>	<u>"</u>
<u>1620</u>	<u>431.32</u>	<u>7.20</u>	<u>385.5</u>	<u>15.0</u>	<u>131.4</u>	<u>4.32</u>	<u>2.14</u>	<u>"</u>
<u>1625</u>	<u>431.72</u>	<u>7.12</u>	<u>419.5</u>	<u>14.9</u>	<u>98</u>	<u>1.36</u>	<u>2.04</u>	<u>"</u>
<u>1630</u>		<u>7.12</u>	<u>422.8</u>	<u>15.3</u>	<u>51.7</u>	<u>0.93</u>	<u>1.77</u>	<u>"</u>
<u>1635</u>	<u>432.24</u>	<u>7.12</u>	<u>422.2</u>	<u>14.8</u>	<u>33.4</u>	<u>0.90</u>	<u>1.89</u>	<u>"</u>
<u>1640</u>		<u>7.11</u>	<u>422.7</u>	<u>15.5</u>	<u>11.1</u>	<u>0.83</u>	<u>1.9</u>	<u>"</u>
<u>1645</u>	<u>432.74</u>	<u>7.11</u>	<u>423</u>	<u>15.7</u>	<u>-22</u>	<u>0.81</u>	<u>1.84</u>	<u>"</u>
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 5 < 0.5	10%, or 3 < 5 C	

Purge Equipment: _____ Flow Rate: 400

Laboratory: _____ Date Sent to Lab: _____

Shipment Method: _____ Field QC Sample Number: _____

Remarks: _____

Signature: [Signature]

<u>1650</u>		<u>7.11</u>	<u>425.3</u>	<u>15.1</u>	<u>-12.8</u>	<u>0.81</u>	<u>1.76</u>	
<u>1655</u>								
<u>16700</u>								

Groundwater Sampling Field Data Sheet

Well #: MW-10D

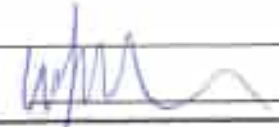
Project Number: _____	Date: <u>5/8/25</u>
Project Name: <u>Yakima LLP</u>	Company Name: <u>Parametrix</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Chris Bourgeois B. Hires, W. Hester</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet below TOC): <u>80.83</u>	Purge Rate Measurement Method: _____
Top of Screen (feet bgs): <u>147</u>	Date Purged: <u>5/8/25</u>
Bottom of Screen (feet bgs): <u>167</u>	Purge Time (from/to): <u>0755 - 0815</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>0820</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	<u>80.83</u>							
<u>7:55</u>	<u>82.24</u>	<u>7.44</u>	<u>237.9</u>	<u>13.9</u>	<u>236.4</u>	<u>4.56</u>	<u>1.80</u>	<u>20/10, 140 psc</u>
<u>8:00</u>	<u>83.54</u>	<u>7.48</u>	<u>238.4</u>	<u>13.7</u>	<u>232.6</u>	<u>6.57</u>	<u>2.43</u>	<u>20/10, 100 psc</u>
<u>8:05</u>	<u>83.09</u>	<u>7.47</u>	<u>238.4</u>	<u>13.7</u>	<u>232.0</u>	<u>6.32</u>	<u>5.76</u>	
<u>8:10</u>	<u>82.84</u>	<u>7.46</u>	<u>238.3</u>	<u>13.7</u>	<u>231.2</u>	<u>6.41</u>	<u>17.24</u>	
<u>8:15</u>	<u>84.74</u>	<u>7.46</u>	<u>238.5</u>	<u>13.8</u>	<u>230.4</u>	<u>6.64</u>	<u>15.49</u>	
<u>8:20</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>8:25</u>	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		<u>± 0.1</u>	<u>3%</u>	<u>3%</u>	<u>± 10 mv</u>	<u>10%, or 3</u>	<u>10%, or 450</u>	

Purge Equipment: _____	Flow Rate: <u>450 mL/min</u>
Laboratory: _____	Date Sent to Lab: _____
Shipment Method: _____	Field QC Sample Number: _____

Remarks: _____

Signature: 



Debris to Green
Recycling

Water Level Measurement Field Report

DATE: 6/17/25	JOB NO. 553-8472-009
PROJECT: Yakima LPL	COMPANY NAME: Parametrix
LOCATION: Rocky Top	
WEATHER: Sunny	TEMP: ° at 90 ° at AM 12 PM
PERSONNEL: XXXXXX Hicks & Nguyen	

THE FOLLOWING WAS NOTED:

WELL NUMBER	Time	Depth to Water (ft below top of casing)	Measuring Point	Screen Interval (ft bgs)
MW-2S	955	208.35	TOC	310-330
MW-3S	1020 1029	170.41	TOC	188-198
MW-4S	1619	34.73	TOC	49.5 - 69.5
MW-5S	915	217.00	TOC	222-243
MW-6S	1018	95.16	TOC	110-130
* MW-7D	—	—	TOC	475-495
MW-8D	1007	301.55	TOC	375-405
MW-9D	1035	432.48	TOC	420-440
MW-10D	1045	79.96	TOC	150-170
6/18/25 MW-11S	1521	109.96	TOC	

* couldn't get WL reading



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well # MW-25

Project Number: <u>553-847-2009</u>	Date: <u>6/17/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>BH, SN</u>

Casing Diameter: 2' 4' 6' Other

Initial Depth to Water (feet): <u>288.35</u>	Purge Rate Measurement Method: <u>graduated cylinder</u>
Depth of Well (feet): _____	Date Purged: <u>6/17/25</u>
Top of Screen (feet): _____	Purge Time (from/to): <u>1500 - 1520</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1524</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial								
1500	<u>288.32</u>	<u>7.85</u>	<u>181.7</u>	<u>15.5</u>	<u>162</u>	<u>8.85</u>	<u>47.57</u>	<u>80/30</u>
1505	<u>289.21</u>	<u>7.11</u>	<u>182</u>	<u>14.4</u>	<u>175.5</u>	<u>6.70</u>	<u>66.9</u>	<u>"</u>
1510	<u>289.30</u>	<u>7.20</u>	<u>182.3</u>	<u>14.7</u>	<u>181</u>	<u>7.3</u>	<u>47.47</u>	<u>"</u>
1515		<u>7.18</u>	<u>182.6</u>	<u>14.9</u>	<u>182.5</u>	<u>7.35</u>	<u>46.70</u>	
1520	<u>289.25</u>	<u>7.15</u>	<u>182.6</u>	<u>14.9</u>	<u>182.2</u>	<u>7.52</u>	<u>46.60</u>	
1525								
1530								
1535								
1540								
Stabilization Criteria		± 0.1	3%	5%	+ 10 mv	10%, or 3 <0.5	10%, or 3<5.0	

175
"
"

Pump Equipment: <u>YSI probe</u>	Flow Rate: _____
Laboratory: _____	Date Sent to Lab: <u>6/19/25</u>
Shipment Method: <u>drop off</u>	Field QC Sample Number: _____

Remarks: SWC sampled 6/19/25 @ 0938
let purge for 15 minutes before collecting

Signature: [Signature]

Groundwater Sampling Field Data Sheet

35 BH

Well #: ~~MW-05~~

Project Number: <u>553-847-2009</u>	Date: <u>6/18/25</u>
Project Name: <u>Yakima LPI</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>DH, JN</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> <u>Other</u>	
Initial Depth to Water (feet below TOC): <u>170.4</u>	Purge Rate Measurement Method: <u>graduated cylinder</u>
Top of Screen (feet bgs): <u>150</u>	Date Purged: <u>6/18/25</u>
Bottom of Screen (feet bgs): <u>250</u>	Purge Time (from/to): <u>1245-1310</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1310</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (umhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>								
<u>1245</u>	<u>170.39</u>	<u>7.45</u>	<u>651</u>	<u>15.4</u>	<u>220.3</u>	<u>8.8</u>	<u>2.32</u>	<u>40/20</u>
<u>1250</u>		<u>6.95</u>	<u>666</u>	<u>14.7</u>	<u>232.9</u>	<u>5.84</u>	<u>2.90</u>	<u>11</u>
<u>1255</u>		<u>6.91</u>	<u>670</u>	<u>14.9</u>	<u>237.9</u>	<u>5.47</u>	<u>2.93</u>	<u>11</u>
<u>1300</u>	<u>171.02</u>	<u>6.89</u>	<u>672</u>	<u>14.9</u>	<u>243.1</u>	<u>5.43</u>	<u>2.81</u>	<u>11</u>
<u>1305</u>	<u>170.97</u>	<u>6.87</u>	<u>669</u>	<u>14.7</u>	<u>247.6</u>	<u>5.39</u>	<u>2.64</u>	<u>11</u>
<u>1310</u>								
<u>1315</u>								
<u>1320</u>								
<u>1325</u>								
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 <3	10%, or 3 <5.0	

130451
11
11
11

Purge Equipment: <u>1/2" Probe</u>	Flow Rate: <u>430 ML/min</u>
Laboratory: _____	Date Sent to Lab: <u>6/19/25</u>
Shipment Method: <u>dry pack</u>	Field QC Sample Number: <u>MW-135</u>

Remarks: DUP, MW-135-_____ collected here, at: 0800

Signature: [Signature]

Groundwater Sampling Field Data Sheet

Well # 45

Project Number: 553-847-2009 Date: 6/18/25
 Project Name: Yakima LPL Company Name: PMX
 Project Address: Rocky Top Sampled By: PH, SW

Casing Diameter: 2" 4" 6" Other _____
 Initial Depth to Water (feet): 34.73 Purge Rate Measurement Method: gradual fill cylinder
 Depth of Well (feet): _____ Date Purged: 6/18/25
 Top of Screen (feet): _____ Purge Time (from/to): 0955-1035
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1040

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial								
0955	<u>35.23</u>	<u>6.87</u>	<u>1244</u>	<u>14.1</u>	<u>294.3</u>	<u>5.3</u>	<u>4.17</u>	<u>1010</u>
1000		<u>6.79</u>	<u>1239</u>	<u>13.4</u>	<u>263.3</u>	<u>6.95</u>	<u>6.84</u>	"
1005		<u>6.76</u>	<u>1232</u>	<u>14.1</u>	<u>268.4</u>	<u>4.84</u>	<u>18.82</u>	"
1010		<u>6.74</u>	<u>1228</u>	<u>14.5</u>	<u>273.2</u>	<u>4.72</u>	<u>32.17</u>	"
1015	<u>35.00</u>	<u>6.75</u>	<u>1258</u>	<u>14.5</u>	<u>271.4</u>	<u>4.42</u>	<u>30.74</u>	
1020	<u>35.26</u>	<u>6.74</u>	<u>1217</u>	<u>13.5</u>	<u>282.3</u>	<u>5.01</u>	<u>43.50</u>	
1025	<u>35.32</u>	<u>6.72</u>	<u>1215</u>	<u>13.5</u>	<u>286.4</u>	<u>5.04</u>	<u>46.60</u>	
1030		<u>6.72</u>	<u>1207</u>	<u>13.4</u>	<u>288.6</u>	<u>4.96</u>	<u>49.96</u>	
1035								
Stabilization Criteria		<u>± 0.1</u>	<u>3%</u>	<u>3%</u>	<u>± 10 mv</u>	<u>10%, or 3 < 0.5</u>	<u>± 0%, or 3 < 0.5</u>	

40 PSI
"
"
"

Purge Equipment: YSI Probe Flow Rate: 750
 Laboratory: _____ Date Sent to Lab: 6/19/25
 Shipment Method: dropped off Field QC Sample Number: N/A

Remarks:
Calibrant get flow rate under 500 → Calibrant lower pressure any further

Signature: [Signature]



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well # MW-5S

Project Number: 553-847-204 Date: 6/17/25
 Project Name: Yakima LPI Company Name: PMX
 Project Address: Rocky Top Sampled By: BH

Casing Diameter: 2" 4" 6" Other _____
 Initial Depth to Water (feet below TOC): 217 Purge Rate Measurement Method: graduated cylinder
 Top of Screen (feet bgs): 222 Date Purged: 6/17/25
 Bottom of Screen (feet bgs): 243 Purge Time (from/to): 1105 - 1135
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1145

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial						9.25		
1105 1105	217.5	7.22	410	16.1	216.4	1.71	8.00	40/20
1110	"	7.52	762	14.6	-105.9	1.71	4.91	40/20
1115	"	7.60	759	14.6	-136.1	1.63	4.91 5.66	"
1120	"	7.63	712	14.8	-136.7	0.94	6.32	"
1125	"	7.53	480.4	14.8	-89.2	2.85	7.5	"
1130	"	7.51	408	14.6	-68.5	2.3	3685	"
1135	"	7.49	413.2	14.7	-68.4	2.27	4014	"
1140								
1145								
Stabilization Criteria		±0.1	3%	3%	±10 mv	10%, or 3 <0.5	10%, or 3 <0	

B0/PSI
"
"
"
"

Purge Equipment: SI Probe Flow Rate: _____
 Laboratory: _____ Date Sent to Lab: 6/19/25
 Shipment Method: dropped off Field QC Sample Number: _____

Remarks:
 Used non PFAS - safe water level by accident will note on sample bottles
 This failed to > 1500 then passed around 3000

Signature: [Signature]

Groundwater Sampling Field Data Sheet

Well #: **MW-6S**

Project Number: <u>553-847-2004</u>	Date: <u>6/18/25</u>
Project Name: <u>Yakima I.P.I.</u>	Company Name: <u>PNV</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>BH, SN</u>

Casing Diameter: <u>2'</u> <u>4'</u> <u>6'</u> Other _____	
Initial Depth to Water (feet below TOC): <u>95.16</u>	Purge Rate Measurement Method: <u>graduated cylinder</u>
Top of Screen (feet bgs): <u>110</u>	Date Purged: <u>6/18/25</u>
Bottom of Screen (feet bgs): <u>130</u>	Purge Time (from/to): <u>11:10 - 11:25</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>11:25</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>								
<u>11:10</u>	<u>95.51</u>	<u>7.20</u>	<u>621</u>	<u>13.2</u>	<u>209</u>	<u>4.33</u>	<u>2.52</u>	<u>11/4</u>
<u>11:15</u>		<u>7.04</u>	<u>621</u>	<u>12.9</u>	<u>272.8</u>	<u>4.61</u>	<u>2.54</u>	<u>11/4</u>
<u>11:20</u>	95	<u>7.02</u>	<u>591</u>	<u>13.2</u>	<u>272.7</u>	<u>4.38</u>	<u>2.51</u>	<u>11</u>
<u>11:25</u>								
<u>11:30</u>								
<u>11:35</u>								
<u>11:40</u>								
<u>11:45</u>								
<u>11:50</u>								
Stabilization Criteria		±0.1	3%	3%	±10 mv	10%, or 3 <0.5	10%, or 3 <0.5	

80 PSI
70 PSI
11

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>500 mL/min</u>
Laboratory: _____	Date Sent to Lab: <u>6/19/25</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks: ~~DOU MW 6S collected from...~~

Final level - 98.2

Signature: [Handwritten Signature]

Groundwater Sampling Field Data Sheet

Well #: MW-7D

Project Number: <u>553-8472-009</u>		Date: <u>6/17/25</u>	
Project Name: <u>Yakima LPL</u>		Company Name: <u>PMX</u>	
Project Address: <u>Rocky Top</u>		Sampled By: <u>BH, SN</u>	
Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> Other <input type="checkbox"/>			
Initial Depth to Water (feet below TDC): <u>247.5 248</u>		Purge Rate Measurement Method: <u>graduated cylinder</u>	
Top of Screen (feet bgs): <u>475</u>		Date Purged: <u>6/17/25</u>	
Bottom of Screen (feet bgs): <u>495</u>		Purge Time (from/to): <u>1325 - 1356</u>	
Reference Point (surveyor's notch, etc.): _____		Time Sampled: <u>1356</u>	

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	—	—	194.9	—	—	—	—	—
1325	—	7.9	159	15.9	60.8	9.25	2.04	40/35
1330	—	7.36	194.9	15.2	86.3	8.68	2.75	"
1335	—	7.31	196.1	16.1	-4.5	4.72	2.12	"
1340	—	7.53	194.8	16.1	-20.1	1.32	1.48	"
1345	—	7.56	194.7	16	-79	0.58	0.45	—
1350	—	7.55	194.5	15.9	-82	0.73	1.46	—
1355	—	7.54	194.5	16.0	-82.2	0.6	1.41	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 < 0.5	10%, or 3 < 0.5	

Purge Equipment: <u>YSI probe</u>	Flow Rate: <u>475 mL/min</u>
Laboratory: _____	Date Sent to Lab: <u>6/19/25</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: _____

Remarks:

Water meter getting stuck - can't get reading

Signature:



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well #: MW-6D

Project Number: <u>553-547-2009</u>		Date: <u>6/18/25</u>	
Project Name: <u>Yakima LPL</u>		Company Name: <u>PMX</u>	
Project Address: <u>Rocky Top</u>		Sampled By: <u>BH. SN</u>	
Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> Other <input type="checkbox"/>			
Initial Depth to Water (feet below TOC): <u>301.75 ft</u> <u>accident got reading</u>		Purge Rate Measurement Method: <u>graduated cylinder</u>	
Top of Screen (feet bgs): <u>375</u>		Date Purged: <u>6/18/25</u>	
Bottom of Screen (feet bgs): <u>405</u>		Purge Time (from to): <u>0814 - 0850</u>	
Reference Point (surveyor's notch, etc.): _____		Time Sampled: <u>0852</u>	

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>	<u>8</u>	<u>7.64</u>	<u>300.1</u>	<u>13.9</u>	<u>234</u>	<u>1.90</u>	<u>6.61</u>	<u>30/30</u>
<u>0815</u>	<u>8</u>	<u>7.62</u>	<u>355.3</u>	<u>14.3</u>	<u>241.6</u>	<u>5.7</u>	<u>5.88</u>	<u>"</u>
<u>0820</u>	<u>8</u>	<u>7.59</u>	<u>355.4</u>	<u>14.7</u>	<u>235</u>	<u>0.60</u>	<u>5.48</u>	<u>"</u>
<u>0825</u>	<u>8</u>	<u>7.62</u>	<u>354</u>	<u>14.8</u>	<u>241.8</u>	<u>0.49</u>	<u>5.77</u>	<u>"</u>
<u>0830</u>	<u>8</u>	<u>7.64</u>	<u>352.6</u>	<u>14.9</u>	<u>232.1</u>	<u>0.51</u>	<u>5.18</u>	<u>"</u>
<u>0835</u>	<u>8</u>	<u>7.64</u>	<u>353.3</u>	<u>14.9</u>	<u>229</u>	<u>0.47</u>	<u>6.98</u>	<u>"</u>
<u>0840</u>	<u>8</u>	<u>7.69</u>	<u>353.5</u>	<u>15.0</u>	<u>215.6</u>	<u>0.48</u>	<u>5.025</u>	<u>"</u>
<u>0845</u>	<u>8</u>							
<u>0850</u>	<u>8</u>							
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 < 0.5	10%, or 3 < 0.5	

Purge Equipment: <u>YSI probe</u>	Flow Rate: _____
Laboratory: _____	Date Sent to Lab: <u>6/19/25</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks: accident got depth reading
meter got stuck on tubing

Signature: [Signature]

235 psi
11
11
11
11
11
11

Groundwater Sampling Field Data Sheet

Well # **MW-9D**

Project Number: 553-847-2019 Date: 6/18/25
 Project Name: Yakima LPL Company Name: PMX
 Project Address: Rocky Top Sampled By: BA, SW

Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet below TOC): 432.48 Purge Rate Measurement Method: graduated cylinder
 Top of Screen (feet bgs): 420 Date Purged: 6/18/25
 Bottom of Screen (feet bgs): 440 Purge Time (from/to): 3:11/4:05 - 14:45
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1450

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial								
1405	<u>432.46</u>	<u>7.30</u>	<u>427.5</u>	<u>17.9</u>	<u>221.7</u>	<u>6.76</u>	<u>2.54</u>	<u>60/40</u>
1410	<u>432.93</u>	<u>7.16</u>	<u>418.8</u>	<u>16.4</u>	<u>236</u>	<u>6.98</u>	<u>2.67</u>	"
1415	<u>433.30</u>	<u>7.00</u>	<u>418.3</u>	<u>15.6</u>	<u>240.7</u>	<u>6.08</u>	<u>2.75</u>	"
1420	<u>433.59</u>	<u>6.86</u>	<u>423.9</u>	<u>15.6</u>	<u>20.6</u>	<u>6.51</u>	<u>3.03</u>	"
1425	<u>433.92</u>	<u>6.84</u>	<u>428</u>	<u>15.5</u>	<u>217.8</u>	<u>6.34</u>	<u>1.60</u>	<u>1</u>
1430		<u>6.82</u>	<u>430.8</u>	<u>15.8</u>	<u>171.8</u>	<u>4.73</u>	<u>0.80</u>	"
1435	<u>434.50</u>	<u>6.82</u>	<u>430.2</u>	<u>15.6</u>	<u>167.2</u>	<u>4.55</u>	<u>0.75</u>	
1440		<u>6.82</u>	<u>426.9</u>	<u>15.6</u>	<u>163.1</u>	<u>4.53</u>	<u>0.74</u>	
1445		<u>6.82</u>	<u>424.5</u>	<u>15.5</u>	<u>157.4</u>	<u>4.5</u>	<u>0.75</u>	
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 ≤ 0.5	10%, or 3 ≤ 0.0	

Purge Equipment: YSI probe Flow Rate: 390 mL/min
 Laboratory: _____ Date Sent to Lab: 6/19/25
 Shipment Method: drop off Field QC Sample Number: N/A

Remarks: accidentally listed DO in turbidity column & vice versa
Pri will correct when digitize data

Signature: [Handwritten Signature]



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well #: MW-10D

Project Number: <u>553-847-2009</u>		Date: <u>6/19/25</u>						
Project Name: <u>Yakima J.P.I.</u>		Company Name: <u>PMX</u>						
Project Address: <u>Rocky Top</u>		Sampled By: <u>BH, JN</u>						
Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 5" <input type="checkbox"/> Other <input type="checkbox"/>								
Initial Depth to Water (feet below TOC): <u>71.96</u>		Purge Rate Measurement Method: <u>graduated cylinder</u>						
Top of Screen (feet bgs): <u>147</u>		Date Purged: <u>6/19/25</u>						
Bottom of Screen (feet bgs): <u>167</u>		Purge Time (from/to): <u>0752-0808</u>						
Reference Point (surveyor's notch, etc.): _____		Time Sampled: <u>0810</u>						
TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>	<u>71.96</u>	<u>6.42</u>	<u>236.4</u>	<u>14.6</u>	<u>338.1</u>	<u>9.28</u>	<u>2.95</u>	<u>20/10</u>
<u>0815</u>	<u>71.96</u>	<u>6.42</u>	<u>236.4</u>	<u>14.6</u>	<u>338.1</u>	<u>9.28</u>	<u>2.95</u>	<u>20/10</u>
<u>0817</u>	<u>81.6</u>	<u>6.76</u>	<u>236.5</u>	<u>14.4</u>	<u>316.4</u>	<u>9.43</u>	<u>2.76</u>	<u>"</u>
<u>0802</u>	<u>81.32</u>	<u>6.83</u>	<u>236.4</u>	<u>14.4</u>	<u>311.5</u>	<u>6.88</u>	<u>2.80</u>	<u>"</u>
<u>0807</u>	<u>81.70</u>	<u>6.84</u>	<u>237</u>	<u>14.4</u>	<u>316.1</u>	<u>6.21</u>	<u>2.89</u>	<u>"</u>
<u>0812</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>0817</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>0822</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>0827</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>0832</u>	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		<u>± 0.1</u>	<u>3%</u>	<u>3%</u>	<u>± 10 mv</u>	<u>10%, or 3 <= 5</u>	<u>10%, or 2 <= 0</u>	
Purge Equipment: <u>YSI probe</u>		Flow Rate: <u>475 mL/min</u>						
Laboratory: <u>DB</u>		Date Sent to Lab: <u>6/19/25</u>						
Shipment Method: <u>dropped off</u>		Field QC Sample Number: <u>N/A</u>						
Remarks:								
Signature: <u>[Signature]</u>								



Field Data Sheet

Well #: Leachate Pond

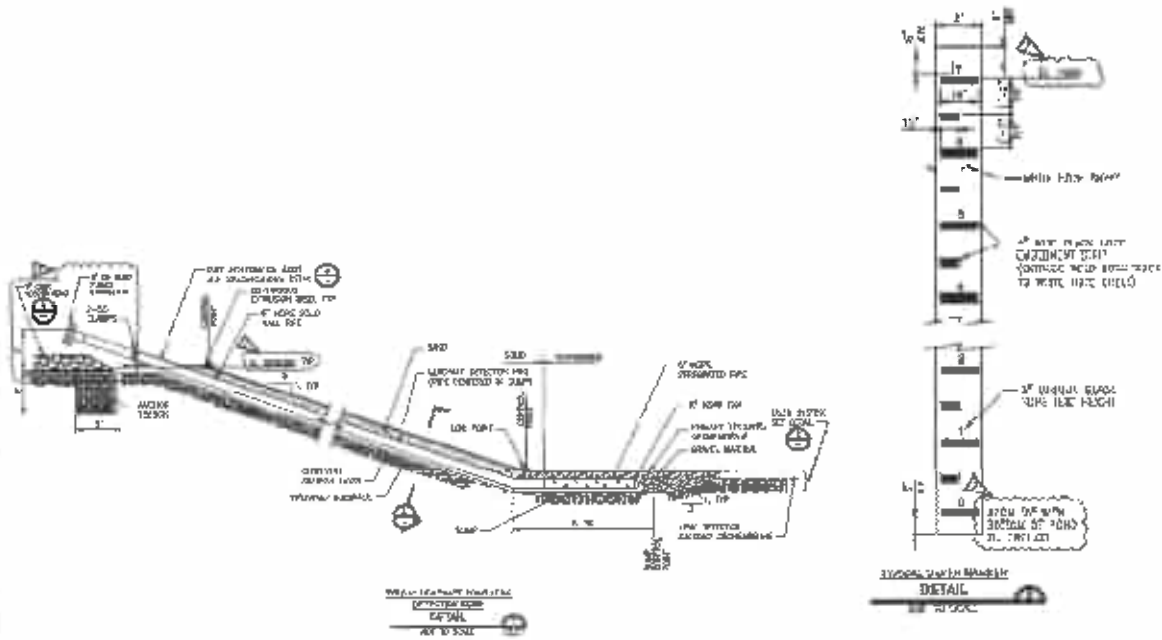
Project Number:		Date:	<u>6/19/25</u>
Project Name:	<u>Yakima I.P.I.</u>	Client Name:	<u>DTG Recycle</u>
Project Address:	<u>41 Rocky Top Road</u> <u>Yakima, WA</u>	Measured By:	<u>BH, JN</u>

TIME (2400 hr)	Depth to Water from top of Cleanout Pipe (ft)	Depth of Water in Leachate Pond (ft)
<u>0831</u>	<u>0ft (dry)</u>	<u>3.75ft</u>

Remarks:

Top 1928 ft, bottom 1921 ft; approximate length of pipe 22 ft (3:1)

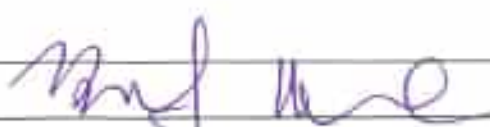
Pond design:



Signature: _____

Groundwater Sampling Field Data Sheet

Well #: MW-5S

Project Number: <u>553-8472-009</u>		Date: <u>8/4/25</u>						
Project Name: <u>Yakima LPL</u>		Company Name: <u>Parametrix</u>						
Project Address: <u>41 Rocky Top Road</u>		Sampled By: <u>Brit Hillis</u>						
Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> Other <input type="checkbox"/>								
Initial Depth to Water (feet below TOC): <u>218' 1"</u>		Purge Rate Measurement Method: <u>YSI Probe</u>						
Top of Screen (feet bgs): <u>222</u>		Date Purged: <u>8/4/25</u>						
Bottom of Screen (feet bgs): <u>243</u>		Purge Time (from/to): <u>1045 - 1130</u>						
Reference Point (surveyor's notch, etc.): _____		Time Sampled: <u>1135</u>						
TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial	<u>218' 1"</u>							
<u>1055</u>	"	<u>7.56</u>	<u>720.8</u>	<u>16.2</u>	<u>182</u>	<u>9.2</u>	<u>-5.9</u>	<u>150 PSI</u>
<u>1100</u>	"	<u>7.39</u>	<u>720.7</u>	<u>15.2</u>	<u>182.5</u>	<u>2.87</u>	<u>-6.19</u>	"
<u>1105</u>	"	<u>7.60</u>	<u>720.8</u>	<u>15.3</u>	<u>152</u>	<u>0.70</u>	<u>-6.3</u>	"
<u>1110</u>	"	<u>7.62</u>	<u>720.7</u>	<u>15.2</u>	<u>132.2</u>	<u>1.22</u>	<u>-6.25</u>	"
<u>1115</u>	"	<u>7.62</u>	<u>720.6</u>	<u>15.1</u>	<u>134.2</u>	<u>1.85</u>	<u>-6.5</u>	"
<u>1120</u>	"	<u>7.62</u>	<u>720.7</u>	<u>15.1</u>	<u>137.2</u>	<u>2.02</u>	<u>-6.5</u>	"
<u>1125</u>	"	<u>7.62</u>	<u>720.7</u>	<u>15.1</u>	<u>141.6</u>	<u>2.06</u>	<u>-6.5</u>	"
<u>1130</u>	"	<u>7.62</u>	<u>720.7</u>	<u>15.1</u>	<u>144.3</u>	<u>2.03</u>	<u>-6.42</u>	"
Stabilization Criteria		<u>± 0.1</u>	<u>3%</u>	<u>3%</u>	<u>± 10 mv</u>	<u>10%, or 3 -0.5</u>	<u>10%, or 3<5.0</u>	
Purge Equipment: <u>YSI Probe</u>		Flow Rate: <u>325 mL/min</u>						
Laboratory: <u>On Site / Anatek</u>		Date Sent to Lab: <u>8/5/25</u>						
Shipment Method: <u>Dipped in</u>		Field QC Sample Number: <u>none</u>						
Remarks:								
								
Signature: _____								

40/20

Groundwater Sampling Field Data Sheet

Well # MW-6S

Project Number: <u>553-8472-009</u>		Date: <u>8/5/25</u>	
Project Name: <u>Yakima LPL</u>		Company Name: <u>Parametrix</u>	
Project Address: <u>41 Rocky Top Road</u>		Sampled By: <u>Bri Hines</u>	
Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> Other <input type="checkbox"/>			
Initial Depth to Water (feet below TOC): <u>95' 8"</u>		Purge Rate Measurement Method: <u>YSI Probe</u>	
Top of Screen (feet bgs): <u>110</u>		Date Purged: <u>8/5/25</u>	
Bottom of Screen (feet bgs): <u>130</u>		Purge Time (from/to): <u>0805 - 0825</u>	
Reference Point (surveyor's notch, etc.): _____		Time Sampled: <u>0830</u>	

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (μ mhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
<u>Initial</u>								
<u>0805</u>	<u>95' 8"</u>	<u>7.26</u>	<u>723.6</u>	<u>15.1</u>	<u>226</u>	<u>9.40</u>	<u>0.68</u>	<u>80 PSI</u>
<u>0810</u>		<u>7.08</u>	<u>723.6</u>	<u>12.7</u>	<u>229</u>	<u>4.80</u>	<u>-2.35</u>	
<u>0815</u>	<u>97'</u>	<u>7.18</u>	<u>723.7</u>	<u>12.7</u>	<u>224</u>	<u>4.89</u>	<u>-0.33</u>	
<u>0820</u>		<u>7.07</u>	<u>723.6</u>	<u>12.8</u>	<u>224.4</u>	<u>4.54</u>	<u>-0.61</u>	
<u>0825</u>		<u>7.07</u>	<u>723.3</u>	<u>12.8</u>	<u>224.1</u>	<u>4.31</u>	<u>-0.63</u>	
<u>0830</u>								
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 < 0.5	20%, or 3 < 5.0	

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>465 ml/min</u>
Laboratory: _____	Date Sent to Lab: <u>465 ml/min</u>
Shipment Method: _____	Field QC Sample Number: <u>6S MS/MSD</u>

Remarks:

6S MS/MSD collected at this well

no bottle for MS/MSD Ammonia sample

Signature: <u>Bri Hines</u>

Groundwater Sampling Field Data Sheet

Well #: MW-7D

Project Number: 553-8472-009 Date: 8/4/25
 Project Name: Yakima LPL Company Name: Parametrix
 Project Address: 41 Rocky Top Road Sampled By: Bri Hrus

Casing Diameter: 2" 4" 8" Other _____
 Initial Depth to Water (feet below TOC): _____ Purge Rate Measurement Method: YSI Probe
 Top of Screen (feet bgs): 475 Date Purged: 8/4/25
 Bottom of Screen (feet bgs): 495 Purge Time (from/to): 0921 - 0958
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1005

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen (mg/L)	TURBIDITY (NTU)	PUMP SETTING
nil		7.63						
0921		7.28	720	18.2	240.7	9.53	11.8	230 PSI
0926		7.61	725	17.6	248	10.9	5.8	
0931		7.45		16.5	246	9.23	15.8	
0936		7.3	721	16.7	210.3	8.8	-5.15	230 PSI
0941		7.27	728	16.8	213	7.7	-5.9	"
0946		7.27	720.7	16.9	210.2	6.21	-5.9	"
0951		7.28	720.8	17.0	205	4.80	-5.9	"
0956		7.35	720.8	17.3	196	2.84	-6	"
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	12% or 3 <0.5	12%, or 3x5 0	

Used Probe every 40/35'
40/35'

Purge Equipment: _____ Flow Rate: 190 mL/min
 Laboratory: On Site / Anatek Date Sent to Lab: 8/5/25
 Shipment Method: dropped off Field QC Sample Number: none

Remarks:
 Couldn't get depth - lowered probe to almost full length & no reading
 Signature: *[Handwritten Signature]*



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well #: MW-8D

Project Number:	<u>553-8472-009</u>	Date:	<u>8/4/25</u>
Project Name:	<u>Yakima LPI.</u>	Company Name:	<u>Parametrix</u>
Project Address:	<u>41 Rocky Top Road</u>	Sampled By:	<u>Brit Hines</u>

Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet below TOC):		Purge Rate Measurement Method:	<u>YSI Probe</u>
Top of Screen (feet bgs):	<u>375</u>	Date Purged:	<u>8/4/25</u>
Bottom of Screen (feet bgs):	<u>405</u>	Purge Time (from/to):	<u>1330 - 1410</u>
Reference Point (surveyor's notch, etc.):		Time Sampled:	<u>1410</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen (mg/L)	TURBIDITY (NTU)	PUMP SETTING
Initial								
<u>1330</u>		<u>8.04</u>	<u>720.8</u>	<u>15.1</u>	<u>160.1</u>	<u>0.64</u>	<u>30.74</u>	<u>235 PSI</u>
<u>1335</u>		<u>8.02</u>	<u>720.7</u>	<u>15.4</u>	<u>161</u>	<u>0.53</u>	<u>41.25</u>	<u>"</u>
<u>1340</u>		<u>8.01</u>	<u>720.7</u>	<u>15.5</u>	<u>160.8</u>	<u>0.49</u>	<u>84.26</u>	<u>"</u>
<u>1345</u>		<u>8.01</u>	<u>720.6</u>	<u>15.6</u>	<u>160.4</u>	<u>0.48</u>	<u>107.25</u>	<u>"</u>
<u>1350</u>		<u>8.03</u>	<u>720.6</u>	<u>15.6</u>	<u>159.1</u>	<u>0.54</u>	<u>155.35</u>	<u>"</u>
<u>1355</u>		<u>8.04</u>	<u>720.6</u>	<u>15.6</u>	<u>158.1</u>	<u>0.51</u>	<u>28.65</u>	<u>"</u>
<u>1400</u>		<u>8.06</u>	<u>720.7</u>	<u>15.6</u>	<u>157.1</u>	<u>0.45</u>	<u>85.17</u>	<u>"</u>
<u>1405</u>		<u>8.11</u>	<u>720.6</u>	<u>15.5</u>	<u>154.7</u>	<u>0.42</u>	<u>42.60</u>	<u>"</u>
<u>1410</u>		<u>8.14</u>	<u>720.5</u>	<u>16.2</u>	<u>153.4</u>	<u>0.39</u>	<u>28.75</u>	<u>"</u>
Stabilization Criteria		+ 0.1	3%	3%	+ 10 mv	10%, or 3 < 0.5	10%, or 3 < 0	

30/30

Purge Equipment:	<u>YSI Probe</u>	Flow Rate:	<u>400 mL / min</u>
Laboratory:	<u>OnSite / Ametek</u>	Date Sent to Lab:	<u>8/5/25</u>
Shipment Method:	<u>dropped off</u>	Field QC Sample Number:	<u>MW 135</u>

Remarks:
135 sampled here
issue with well tubing messed w/ accuracy of depth reading

Signature: _____



Groundwater Sampling Field Data Sheet

Well #: MW-9D

Project Number: <u>553-8472-009</u>	Date: <u>8/5/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>Ben Hines</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet below TOC): <u>435' 5"</u>	Purge Rate Measurement Method: <u>YSI probe</u>
Top of Screen (feet bgs): <u>420</u>	Date Purged: <u>8/5/25</u>
Bottom of Screen (feet bgs): <u>440</u>	Purge Time (from/to): <u>0925 - 0940</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>0945</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial	<u>435' 5"</u>							
<u>0925</u>		<u>7.5</u>	<u>723.3</u>	<u>17</u>	<u>231.4</u>	<u>9.16</u>	<u>6.71</u>	<u>240 PSI</u>
<u>0930</u>	<u>"</u>	<u>7.57</u>	<u>723.3</u>	<u>15.7</u>	<u>205.2</u>	<u>9.5</u>	<u>6.7</u>	<u>"</u>
<u>0935</u>	<u>"</u>	<u>7.54</u>	<u>723.3</u>	<u>14.9</u>	<u>204.7</u>	<u>9.62</u>	<u>6.7</u>	<u>"</u>
<u>0940</u>	<u>"</u>	<u>7.53</u>	<u>723.3</u>	<u>14.9</u>	<u>203.6</u>	<u>9.45</u>	<u>6.81</u>	<u>"</u>
<u>0945</u>								
<u>0950</u>								
<u>0955</u>								
<u>1000</u>								
Stabilization Criteria:		<u>± 0.1</u>	<u>3%</u>	<u>2%</u>	<u>± 10 mv</u>	<u>12% or 3</u>	<u>12% or 3x5.0</u>	
						<u>< 0.5</u>		

Purge Equipment: <u>YSI probe</u>	Flow Rate: <u>300 mL / min</u>
Laboratory: <u>On Site / Analytic</u>	Date Sent to Lab: <u>8/5/25</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>none</u>

Remarks:

Signature:

Groundwater Sampling Field Data Sheet

Well #: **MW-10D**

Project Number: <u>553-8472 009</u>	Date: <u>8/5/25</u>
Project Name: <u>Yzquina LPL</u>	Company Name: <u>Parameterix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>Ben Hines</u>

Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet below TOC): <u>80'</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>147</u>	Date Purged: <u>8/5/25</u>
Bottom of Screen (feet bgs): <u>167</u>	Purge Time (from/to): <u>1025 - 1035</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1040</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial	<u>80'</u>							
<u>1025</u>	<u>"</u>	<u>7.92</u>	<u>719.8</u>	<u>17.7</u>	<u>183.3</u>	<u>8.97</u>	<u>-6.75</u>	<u>95 PSI</u>
<u>1030</u>	<u>"</u>	<u>7.87</u>	<u>719.8</u>	<u>17.5</u>	<u>184.6</u>	<u>8.97</u>	<u>-6.62</u>	<u>"</u>
<u>1035</u>	<u>"</u>	<u>7.67</u>	<u>719.8</u>	<u>17.4</u>	<u>191.7</u>	<u>7.62</u>	<u>-6.25</u>	<u>"</u>
<u>1040</u>								
<u>1045</u>								
<u>1050</u>								
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 < 5	10% or 3 < 0	

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>165 mL/min</u>
Laboratory: <u>Onsite/Ametek</u>	Date Sent to Lab: <u>8/5/25</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>none</u>

Remarks:

Signature: [Signature]

Water Level Measurement Field Report

DATE: <u>9/9/25</u>	JOB NO.:
PROJECT: <u>Yakma LPL</u>	COMPANY NAME: <u>PMX</u>
LOCATION: <u>Rocky Top</u>	
WEATHER: <u>Overcast</u>	TEMP: <u>65</u> ° at <u>0800</u> AM ° at: PM
PERSONNEL: <u>C. Bourgeois</u>	

THE FOLLOWING WAS NOTED:

WELL NUMBER	Time	Depth to Water (ft below top of casing)	Measuring Point	Screen Interval (ft bgs)
MW-1S	<u>0958</u>	<u>109.82</u>	TOC	<u>118-138</u>
MW-2S			TOC	310-330
MW-3S	<u>1004</u>	<u>170.38</u>	TOC	188-198
MW-4S	<u>0951</u>	<u>41"</u>	TOC	49.5 - 69.5
MW-5S	<u>842</u>	<u>218.98</u>	TOC	227-243
MW-6S	<u>0146</u>	<u>96.71</u>	TOC	110-130
MW-11S			TOC	<u>219-239</u>
MW-7D	<u>448849</u>	<u>448.11</u>	TOC	475-495
MW-8D	<u>932</u>	<u>301.76</u>	TOC	375-405
MW-9D	<u>1011</u>	<u>434.65</u>	TOC	420-440
MW-10D	<u>1025</u>	<u>80.51</u>	TOC	150-170

BH



25 - no reading - dry?

Groundwater Sampling Field Data Sheet

Well #: MW-15

Project Number: _____	Date: <u>9/10/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>PMX</u>
Project Address: <u>Road 700</u>	Sampled By: <u>BH, WS</u>

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet): <u>102.97</u>	Purge Rate Measurement Method: <u>Yd Probe</u>
Depth of Well (feet): <u>133 feet</u>	Date Purged: <u>9/10/25</u>
Top of Screen (feet): <u>113 feet</u>	Purge Time (from/to): <u>1415 - 1435</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1440</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen (mg/L)	TURBIDITY (visual)	PUMP SETTING
<u>in tie</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1415</u>	<u>102.97</u>	<u>10.12</u>	<u>266</u>	<u>14.8</u>	<u>-29.7</u>	<u>1.75</u>	<u>6.83</u>	<u>90 PSI</u>
<u>1420</u>	_____	<u>9.54</u>	<u>265</u>	<u>14.9</u>	<u>-54.7</u>	<u>0.3</u>	<u>5.12</u>	<u>"</u>
<u>1425</u>	_____	<u>9.36</u>	<u>262.7</u>	<u>15.1</u>	<u>-66.7</u>	<u>0.17</u>	<u>4.61</u>	<u>"</u>
<u>1430</u>	_____	<u>9.25</u>	<u>268.8</u>	<u>14.7</u>	<u>-68.6</u>	<u>0.11</u>	<u>2.59</u>	<u>"</u>
<u>1435</u>	_____	<u>9.30</u>	<u>257.9</u>	<u>15.4</u>	<u>-74.1</u>	<u>0.09</u>	<u>2.36</u>	<u>"</u>
<u>1440</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1445</u>	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10% or 0.5	10% or 360.0	

.30/20

Purge Equipment: <u>Yd probe</u>	Flow Rate: <u>475 mL/min</u>
Laboratory: <u>On Site / Analyk</u>	Date Sent to Lab: <u>A- 9/10, O- 9/11</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks: _____

Signature: [Handwritten Signature]

Groundwater Sampling Field Data Sheet

Well #: MW-2S

Project Number: _____	Date: <u>9/9/25</u>
Project Name: <u>Yakima JJI</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Chris Bourgeois</u>

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): _____	Purge Rate Measurement Method: <u>YSI probe</u>
Top of Screen (feet bgs): <u>310</u>	Date Purged: <u>9/9/25</u>
Bottom of Screen (feet bgs): <u>330</u>	Purge Time (from/to): <u>1615 - 1630</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1635</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1615</u>	_____	<u>7.48</u>	<u>709.5</u>	<u>16.4</u>	<u>174.3</u>	<u>8.63</u>	<u>0.31</u>	<u>175PSI 30/30</u>
<u>1620</u>	_____	<u>7.60</u>	<u>709.6</u>	<u>15.8</u>	<u>175.5</u>	<u>7.65</u>	<u>0.16</u>	"
<u>1625</u>	_____	<u>7.46</u>	<u>709.6</u>	<u>16.83</u>	<u>176.6</u>	<u>6.23</u>	<u>0.14</u>	"
<u>1630</u>	_____	<u>7.26</u>	<u>709.6</u>	<u>16.6</u>	<u>181.6</u>	<u>7.25</u>	<u>0.38</u>	"
<u>1635</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1640</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1645</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1650</u>	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		± 0.1	3%	3%	+ 10 mv	10%, or 3 <0.5	10%, or 3 <0	

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>230 mL/min</u>
Laboratory: <u>OnSite / Anatek</u>	Date Sent to Lab: <u>A-9/9; 0-9/11</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Couldn't get water depth - meter won't stick successfully sampled, so it must have gotten stuck on something

Signature: [Handwritten Signature]



Groundwater Sampling Field Data Sheet

Well #: MW-35

Project Number: _____	Date: <u>9/10/25</u>
Project Name: <u>Yakima L.P.</u>	Company Name: <u>PMA</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Chris Bourgeois</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet below TOC): <u>170.1</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>188</u>	Date Purged: <u>9/10/25</u>
Bottom of Screen (feet bgs): <u>198</u>	Purge Time (from to): <u>0930 - 1010</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1015</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec ($\mu\text{mhos/cm}$ 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>initial</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>0940</u>	_____	<u>9.11</u>	<u>681</u>	<u>15.7</u>	<u>0.4</u>	<u>8.6</u>	<u>0.26</u>	<u>120 PSI</u>
<u>0945</u>	_____	<u>8.70</u>	<u>686</u>	<u>14.8</u>	<u>-2.1</u>	<u>6.15</u>	<u>0.45</u>	<u>30/125</u>
<u>0950</u>	_____	<u>8.61</u>	<u>696</u>	<u>15.0</u>	<u>-1.9</u>	<u>5.25</u>	<u>0.39</u>	_____
<u>1000</u>	_____	<u>9.34</u>	<u>697</u>	<u>14.9</u>	<u>-1.3</u>	<u>4.95</u>	<u>0.50</u>	_____
<u>1005</u>	<u>170.85</u>	<u>8.13</u>	<u>688</u>	<u>14.9</u>	<u>-1.7</u>	<u>5.05</u>	<u>0.29</u>	_____
<u>1010</u>	_____	<u>8.13</u>	<u>689</u>	<u>15</u>	<u>-1.2</u>	<u>5.00</u>	<u>0.25</u>	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
Sterilization Criteria		± 0.1	3%	3%	$\pm 10 \text{mv}$	10% in 4 <0.5	10% or better	_____

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>50 ml/min</u>
Laboratory: <u>Antek / on site</u>	Date Sent to Lab: <u>A- 9/10/25 - 9/11/25</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks: _____

Signature: _____

Groundwater Sampling Field Data Sheet

Well #: MW-4S

Project Number: <u>553-8472-009</u>	Date: <u>9/10/25</u>
Project Name: <u>Yakima LPI</u>	Company Name: <u>PMM X</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Chris Bourgeois</u>

Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet below TOC): <u>41.15</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>49.5</u>	Date Purged: <u>9/10/25</u>
Bottom of Screen (feet bgs): <u>69.5</u>	Purge Time (from/to): <u>1155 - 1210</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1215</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>								
<u>1155</u>	<u>41.15</u>	<u>8.18</u>	<u>1121</u>	<u>20.0</u>	<u>-5.2</u>	<u>8.01</u>	<u>3.56</u>	<u>60 PSI</u>
<u>1200</u>	<u>41.31</u>	<u>8.15</u>	<u>1119</u>	<u>20.0</u>	<u>-6.04</u>	<u>8.04</u>	<u>3.56</u>	<u>60 PSI</u>
<u>1205</u>		<u>8.04</u>	<u>1124</u>	<u>19.7</u>	<u>-5.4</u>	<u>8.07</u>	<u>3.42</u>	<u>60 PSI</u>
<u>1210</u>	<u>41.39</u>	<u>8.12</u>	<u>1131</u>	<u>19.4</u>	<u>-5.2</u>	<u>8.11</u>	<u>3.12</u>	
<u>1215</u>								
<u>1220</u>								
<u>1225</u>								
<u>1230</u>								
Stabilization Criteria		1.0	3%	2%	120 mv	10% or 3.0 mg/L	10% or 5-10.0	

10/15
30/20
30/20

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>410 mL/min</u>
Laboratory: <u>Anatek / onsite</u>	Date Sent to Lab: <u>9/10 / 9/11</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>MW-135</u>

Remarks:

Signature: Chris Bourgeois

Groundwater Sampling Field Data Sheet

Well # MW-55

Project Number: _____	Date: <u>9/11/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Chris Bourgeois</u>

Casing Diameter: 2" 4" 6" Other _____

Initial Depth to Water (feet below TOC): <u>211.50</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>222</u>	Date Purged: <u>9/11/25</u>
Bottom of Screen (feet bgs): <u>243</u>	Purge Time (from/to): <u>1150 - 1220</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1225</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>1150</u>	<u>211.50</u>	<u>7.33</u>	<u>710.2</u>	<u>16.9</u>	<u>177.9</u>	<u>9.03</u>	_____	<u>150PSI</u>
<u>1155</u>	_____	<u>7.33</u>	<u>710.2</u>	<u>17.1</u>	<u>160.5</u>	<u>3.65</u>	_____	_____
<u>1200</u>	_____	<u>7.50</u>	<u>710.2</u>	<u>18.4</u>	<u>77.9</u>	<u>1.95</u>	<u>2.61</u>	_____
<u>1205</u>	_____	<u>7.60</u>	<u>710.2</u>	<u>17.5</u>	<u>27.7</u>	<u>1.23</u>	<u>1.69</u>	_____
<u>1210</u>	_____	<u>7.67</u>	<u>710.1</u>	<u>17.6</u>	<u>3.6</u>	<u>0.97</u>	<u>1.41</u>	_____
<u>1215</u>	_____	<u>7.67</u>	<u>710.0</u>	<u>18.9</u>	<u>-0.5</u>	<u>0.96</u>	<u>1.54</u>	_____
<u>1220</u>	_____	<u>7.72</u>	<u>709.9</u>	<u>17.8</u>	<u>8.5</u>	<u>1.18</u>	<u>1.61</u>	_____
<u>1225</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1230</u>	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		±0.1	3%	3%	±10 mv	10%, or 2 +0.5	10%, or 40 NTU	

40/20

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>330 mL/min</u>
Laboratory: <u>Anitek / onsite</u>	Date Sent to Lab: <u>9/11 / 9/11</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks: _____

Signature: _____

Groundwater Sampling Field Data Sheet

Well #: **MW-6S**

Project Number: <u>553-8272-009</u>	Date: <u>9/10/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Chris Bourgeois</u>
Casing Diameter: 2" <input type="checkbox"/> 4" <input checked="" type="checkbox"/> 6" <input type="checkbox"/> Other <input type="checkbox"/>	
Initial Depth to Water (feet below TOC): <u>96.66</u>	Purge Rate Measurement Method: <u>VSI Probe</u>
Top of Screen (feet bgs): <u>110</u>	Date Purged: <u>9/10/25</u>
Bottom of Screen (feet bgs): <u>130</u>	Purge Time (from/to): <u>1305 - 1325</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1330</u>

TIME (2400 hr)	DEPTH TO WATER (F)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1305</u>	<u>96.66</u>	<u>9.60</u>	<u>627</u>	<u>13.3</u>	<u>-21</u>	<u>2.25</u>	<u>0.62</u>	<u>10 PSI</u>
<u>1310</u>	_____	<u>9.59</u>	<u>658</u>	<u>13.3</u>	<u>-27.2</u>	<u>4.26</u>	<u>0.48</u>	<u>"</u>
<u>1315</u>	_____	<u>9.33</u>	<u>651</u>	<u>13.3</u>	<u>-28.6</u>	<u>4.30</u>	<u>0.19</u>	<u>"</u>
<u>1320</u>	_____	<u>9.29</u>	<u>633</u>	<u>13.4</u>	<u>-31.1</u>	<u>4.15</u>	<u>0.11</u>	<u>"</u>
<u>1325</u>	_____	<u>9.27</u>	<u>617</u>	<u>14.1</u>	<u>-32.4</u>	<u>3.97</u>	<u>0.33</u>	<u>"</u>
<u>1330</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1335</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1340</u>	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		+0.1	3%	±%	+10 mv	10%, or 3 <0.5	10%, or less	

Purge Equipment: <u>VSI Probe</u>	Flow Rate: <u>425 mL/min</u>
Laboratory: <u>Analytic / onsite</u>	Date Sent to Lab: <u>9/10 / 9/11</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>VIA</u>

Remarks: DEP MW-78- collected here at:

Chris Bourgeois

Signature: _____

Groundwater Sampling Field Data Sheet

Well #: **MW-11S**

Project Number: <u>533-8472-009</u>	Date: <u>9/10/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>BH/WS</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other: _____	
Initial Depth to Water (feet): <u>110.10</u>	Purge Rate Measurement Method: <u>1/51 Probe</u>
Depth of Well (feet): <u>239 feet</u>	Date Purged: <u>9/10/25</u>
Top of Screen (feet): <u>219 feet</u>	Purge Time (from/to): <u>1100-1125</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1130</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PLMP SETTING
<u>Init a</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1100</u>	<u>110.10</u>	_____	_____	_____	_____	_____	_____	_____
<u>1105</u>	<u>110.10</u>	<u>10.06</u>	<u>268</u>	<u>15.4</u>	<u>-0.2</u>	<u>4.3</u>	<u>1.8</u>	<u>15081</u>
<u>1110</u>	_____	<u>9.36</u>	<u>272</u>	<u>14.5</u>	<u>-8.5</u>	<u>1.66</u>	<u>9.69</u>	_____
<u>1115</u>	_____	<u>9.36</u>	<u>271</u>	<u>14.5</u>	<u>-11.8</u>	<u>0.86</u>	<u>5.91</u>	_____
<u>1120</u>	_____	<u>9.37</u>	<u>272</u>	<u>14.5</u>	<u>-15.2</u>	<u>0.61</u>	<u>4.80</u>	_____
<u>1125</u>	_____	<u>9.37</u>	<u>271</u>	<u>14.4</u>	<u>-17</u>	<u>0.44</u>	<u>4.91</u>	_____
<u>1130</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1135</u>	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		<u>±0.1</u>	<u>3%</u>	<u>±%</u>	<u>±10 mv</u>	<u>10%, or 3 <0.5</u>	<u>10%, or 3 <0.5</u>	_____

30/20

Purge Equipment: <u>1/51 Probe</u>	Flow Rate: <u>410 mL/min</u>
Laboratory: <u>Ametek/OnSite</u>	Date Sent to Lab: <u>9/10 / 9/11</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: 

Groundwater Sampling Field Data Sheet

Well #: MW-7D

Project Number: <u>553-8472-009</u>	Date: <u>9/19/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Chris Thompson BH/WS</u>


Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> Other <input type="checkbox"/>	
Initial Depth to Water (feet below TOC): <u>448.02</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>175</u>	Date Purged: <u>9/19/25</u>
Bottom of Screen (feet bgs): <u>495</u>	Purge Time (from/to): <u>1345 - 1425</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1435</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Fc (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>1345</u>	<u>448.02</u>	<u>8.07</u>	<u>709.7</u>	<u>19.2</u>	<u>125.6</u>	<u>9.03</u>	<u>0.41</u>	<u>250psi</u>
<u>1350</u>	_____	<u>7.72</u>	<u>709.8</u>	<u>18.1</u>	<u>136.8</u>	<u>8.53</u>	<u>0.58</u>	_____
<u>1355</u>	_____	<u>7.62</u>	<u>709.8</u>	<u>17.8</u>	<u>142.2</u>	<u>8.33</u>	<u>0.76</u>	_____
<u>1400</u>	_____	<u>7.56</u>	<u>709.7</u>	<u>17.7</u>	<u>145.7</u>	<u>6.10</u>	<u>0.42</u>	_____
<u>1405</u>	_____	<u>7.74</u>	<u>709.6</u>	<u>17.3</u>	<u>130.6</u>	<u>2.72</u>	<u>0.40</u>	_____
<u>1410</u>	_____	<u>7.87</u>	<u>709.6</u>	<u>17.3</u>	<u>113.1</u>	<u>1.67</u>	<u>0.38</u>	_____
<u>1415</u>	_____	<u>7.89</u>	<u>709.5</u>	<u>17.2</u>	<u>106</u>	<u>1.45</u>	<u>0.38</u>	_____
<u>1420</u>	<u>447.94</u>	<u>7.91</u>	<u>709.5</u>	<u>17.2</u>	<u>83</u>	<u>1.15</u>	<u>0.24</u>	_____
<u>1425</u>	_____	<u>7.92</u>	<u>709.5</u>	<u>17.0</u>	<u>62.5</u>	<u>1.32</u>	<u>0.36</u>	_____
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 0.5	10%, or 0.5	

40/35


Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>325 mL/min</u>
Laboratory: <u>Anatek / Anatek</u>	Date Sent to Lab: <u>9/19 / 9/11</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: 

Groundwater Sampling Field Data Sheet

Well # MW-8D

Project Number: <u>553-8472-009</u>		Date: <u>9/9/25</u>						
Project Name: <u>Yakima LPI</u>		Company Name: <u>PMX</u>						
Project Address: <u>Rocky Top</u>		Sampled By: <u>Chris Bourgeois BH/WJS</u>						
Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> Other <input type="checkbox"/>								
Initial Depth to Water (feet below TOC): <u>301.89</u>		Purge Rate Measurement Method: <u>BSY01 Probe</u>						
Top of Screen (feet bgs): <u>375</u>		Date Purged: <u>9/9/25</u>						
Bottom of Screen (feet bgs): <u>405</u>		Purge Time (from/to): <u>1500-1535</u>						
Reference Point (surveyor's notch, etc.): _____		Time Sampled: <u>1540</u>						
TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Fe (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
<u>Initial</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1500</u>	<u>301.89</u>	_____	_____	_____	_____	_____	_____	_____
<u>1505</u>	_____	<u>8.08</u>	<u>710</u>	<u>18.7</u>	<u>148.9</u>	<u>5.65</u>	<u>0.61</u>	<u>230PSI 30/30</u>
<u>1510</u>	_____	<u>8.15</u>	<u>711</u>	<u>16.0</u>	<u>145.7</u>	<u>2.27</u>	<u>0.98</u>	_____
<u>1515</u>	<u>299.56</u>	<u>8.22</u>	<u>709.9</u>	<u>16.1</u>	<u>141.6</u>	<u>1.18</u>	<u>1.02</u>	_____
<u>1520</u>	_____	<u>8.17</u>	<u>709.9</u>	<u>16.5</u>	<u>140.9</u>	<u>0.88</u>	<u>1.29</u>	_____
<u>1525</u>	_____	<u>8.12</u>	<u>709.9</u>	<u>16.8</u>	<u>140.1</u>	<u>0.78</u>	_____	_____
<u>1530</u>	_____	<u>8.10</u>	<u>709.8</u>	<u>16.8</u>	<u>139.3</u>	<u>0.75</u>	<u>1.51</u>	_____
<u>1535</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1540</u>	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		±0.1	3%	4%	±10 mv	10%, or 3 <0.5	10%, or 3 <0.5	
Purge Equipment: <u>YSI probe</u>		Flow Rate: <u>315 mL/min</u>						
Laboratory: <u>Anatek Anate</u>		Date Sent to Lab: <u>9/9/25</u>						
Shipment Method: <u>drop off</u>		Field QC Sample Number: <u>N/A</u>						
Remarks:								
<div style="text-align: center; font-size: 2em; font-family: cursive;">  </div>								
Signature: _____								

Groundwater Sampling Field Data Sheet

Well #: MW-9D

Project Number: <u>553-8472-009</u>	Date: <u>9/10/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Clara Bourgeois BH, LWS</u>

Casing Diameter: 2" 4" 6" Other _____

Initial Depth to Water* (feet below TOC): <u>434.62</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>420</u>	Date Purged: <u>9/10/25</u>
Bottom of Screen (feet bgs): <u>440</u>	Purge Time (from/to): <u>0845-0855</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>0900</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Fc (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	<u>434.62</u>							
<u>0845</u>	<u>434.60</u>	<u>9.08</u>	<u>412.8</u>	<u>17.0</u>	<u>-20.7</u>	<u>4.55</u>	<u>0.61</u>	<u>240 PSI</u>
<u>0850</u>	<u>434.62</u>	<u>9.07</u>	<u>485.6</u>	<u>15.9</u>	<u>-28.6</u>	<u>4.56</u>	<u>0.61</u>	<u>"</u>
<u>0855</u>	<u>434.70</u>	<u>9.01</u>	<u>486.6</u>	<u>15.5</u>	<u>-30.8</u>	<u>4.95</u>	<u>0.44</u>	<u>"</u>
Standardization Criteria		± 0.1	5%	3%	± 10 mv	10%, ± 3% ± 0.5	10%, or 3+ s.u.	

60/40

Purification Equipment: <u>YSI Probe</u>	Flow Rate: <u>~300 ml/min</u>
Laboratory: <u>Amatek / onsite</u>	Date Sent to Lab: <u>9/10/9/11</u>
Shipment Method: <u>drop-off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: Walter Ly S.

Groundwater Sampling Field Data Sheet

Well #: MW-100

Project Number: <u>552-8472-004</u>	Date: <u>9/10/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Chris Bourgeois BSA, WS</u>

Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet below TOC): <u>80.41</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>147</u>	Date Purged: <u>9/10/25</u>
Bottom of Screen (feet ogs): <u>167</u>	Purge Time (from/to): <u>1505 - 1525</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1525</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial								
<u>1505</u>	<u>80.41</u>	<u>8.52</u>	<u>249</u>	<u>19.5</u>	<u>-14.5</u>	<u>8.56</u>	<u>0.38</u>	<u>95PS1</u>
<u>1510</u>		<u>8.53</u>	<u>245</u>	<u>18.1</u>	<u>-20</u>	<u>8.18</u>	<u>0.26</u>	
<u>1515</u>		<u>8.34</u>	<u>245</u>	<u>15.1</u>	<u>-24</u>	<u>3.25</u>	<u>1.7</u>	
<u>1520</u>		<u>7.97</u>	<u>245</u>	<u>18.6</u>	<u>-24</u>	<u>3.95</u>	<u>1.03</u>	
<u>1525</u>		<u>8.07</u>	<u>244.5</u>	<u>18.4</u>	<u>-24</u>	<u>4.04</u>	<u>0.41</u>	
<u>1530</u>								
<u>1535</u>								
<u>1540</u>								
Stabilization Criteria		< 0.1	3%	3%	< 10 mv	10% or < 0.5	10% or < 2.50	

Purging Equipment: <u>YSI Probe</u>	Flow Rate: <u>475 mL/min</u>
Laboratory: <u>Anatek / onsite</u>	Date Sent to Lab: <u>9/10/25</u>
Shipment Method: <u>drop off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: 

Water Level Measurement Field Report

DATE: 10/28/25 - 10/28/25	JOB NO.: 553-8472-009
PROJECT: Yakima LPL	COMPANY NAME: Parametrix
LOCATION: 41 Rocky Top Road	
WEATHER: mostly clear	TEMP: 40 ° at 800 AM 60 ° at 1500 PM
PERSONNEL: BH, SN	

THE FOLLOWING WAS NOTED:

WELL NUMBER	Time	Depth to Water (ft below top of casing)	Measuring Point	Screen Interval (ft bgs)
MW-2S			TOC	310-330
MW-3S			TOC	185-198
MW-4S			TOC	49.5-69.5
MW-5S	0947	220.56	TOC	222-243
MW-6S	1345	97.70	TOC	110-130
MW-7D	1205	448.49	TOC	475-495
MW-8D	1135	302.26	TOC	375-405
MW-9D	1535	436.4	TOC	420-440
MW-10D	1235	80.36	TOC	150-170
MW-11S	0820	111.31	TOC	113-133
MW-11S	1025	104.71	TOC	219-239



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well #: MW-1S

Project Number:	<u>537-8472-001</u>	Date:	<u>10/22/25</u>
Project Name:	<u>Yakima I.PL</u>	Company Name:	<u>PMX</u>
Project Address:	<u>Rocky Top</u>	Sampled By:	<u>BH</u>

Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet):	<u>104.71</u>	Purge Rate Measurement Method:	<u>YSI probe</u>
Depth of Well (feet):	<u>133</u>	Date Purged:	<u>10/22/25</u>
Top of Screen (feet):	<u>113</u>	Purge Time (from/to):	<u>1025-1045</u>
Reference Point (surveyor's notch, etc.):		Time Sampled:	<u>1050</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
initial								
<u>1025</u>		<u>7.26</u>	<u>213</u>	<u>14.0</u>	<u>67</u>	<u>10.92</u>	<u>0.0</u>	<u>12000</u> <u>4020</u>
<u>1030</u>		<u>6.92</u>	<u>213.5</u>	<u>13.6</u>	<u>65</u>	<u>8.76</u>		
<u>1035</u>	<u>106.32</u>	<u>6.74</u>	<u>206.6</u>	<u>13.7</u>	<u>66.2</u>	<u>0.34</u>		
<u>1040</u>		<u>6.67</u>	<u>206.4</u>	<u>13.7</u>	<u>58.4</u>	<u>0.30</u>		
<u>1045</u>	<u>108.55</u>	<u>6.64</u>	<u>206.1</u>	<u>13.8</u>	<u>58.2</u>	<u>0.41</u>		
<u>1050</u>								
<u>1055</u>								
<u>1100</u>								
<u>1105</u>								
Stabilization Criteria		= 0.1	3%	2%	± 10mv	11% or 2 <0.5	10% or 4.5 U	

Purge Equipment:		Flow Rate:	<u>410 mL/min</u>
Laboratory:	<u>Analytic / On Site</u>	Date Sent to Lab:	<u>10/22/25</u>
Shipment Method:	<u>chipped off</u>	Field QC Sample Number:	<u>N/A</u>

Remarks:
Turb meter malfunction

Signature: [Handwritten Signature]

Groundwater Sampling Field Data Sheet

Well #: **MW-5S**

Project Number: <u>553-8472-009</u>		Date: <u>10/21/25</u>	
Project Name: <u>Yakima LPL</u>		Company Name: <u>Parametrix</u>	
Project Address: <u>41 Rocky Top Road</u>		Sampled By: <u>BH, SN</u>	
Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 8" <input type="checkbox"/> Other <input type="checkbox"/>			
Initial Depth to Water (feet below TOC): <u>223.56</u>		Purge Rate Measurement Method: <u>YSI probe</u>	
Top of Screen (feet bgs): <u>222</u>		Date Purged: <u>10/21/25</u>	
Bottom of Screen (feet bgs): <u>243</u>		Purge Time (from/to): <u>0950-1106</u>	
Reference Point (surveyor's notch, etc.): _____		Time Sampled: <u>1110</u>	

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
<u>Initial</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>0950</u>	_____	<u>6.69</u>	<u>346.6</u>	<u>15.6</u>	<u>174.4</u>	<u>11.3</u>	<u>0.69</u>	<u>150 PSI</u>
<u>0955</u>	<u>219.3</u>	<u>6.66</u>	<u>321.6</u>	<u>14.4</u>	<u>147.6</u>	<u>14.3</u>	<u>1.01</u>	<u>"</u>
<u>1000</u>	_____	<u>6.56</u>	<u>336.2</u>	<u>14.2</u>	<u>141.6</u>	<u>8.50</u>	<u>1.35</u>	<u>"</u>
<u>1005</u>	_____	<u>6.80</u>	<u>520</u>	<u>14.3</u>	<u>95.5</u>	<u>2.18</u>	<u>0.00</u>	<u>"</u>
<u>1010</u>	<u>219.34</u>	<u>6.90</u>	<u>515</u>	<u>14.0</u>	<u>73.7</u>	<u>1.23</u>	<u>0.00</u>	<u>"</u>
<u>1015</u>	_____	<u>6.90</u>	<u>444</u>	<u>14.3</u>	<u>47.4</u>	<u>0.68</u>	<u>0</u>	<u>"</u>
<u>1020</u>	_____	<u>6.90</u>	<u>405</u>	<u>14.3</u>	<u>38.3</u>	<u>0.64</u>	<u>0</u>	<u>"</u>
<u>1025</u>	_____	<u>7.07</u>	<u>368</u>	<u>14.3</u>	<u>21.9</u>	<u>0.26</u>	<u>0</u>	<u>"</u>
<u>1030</u>	_____	<u>6.96</u>	<u>365</u>	<u>14.4</u>	<u>30.9</u>	<u>0.67</u>	<u>0</u>	<u>"</u>
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10% or 3 <0.5	10% or 3 <0.5	

Purge Equipment: <u>YSI probe</u>	Flow Rate: <u>270 mL/min</u>
Laboratory: <u>Anatek / Onsite</u>	Date Sent to Lab: <u>10/21; 10/22</u>
Shipment Method: <u>Dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:								
<u>1035</u>	<u>219.34</u>	<u>6.95</u>	<u>358.7</u>	<u>14.3</u>	<u>32.0</u>	<u>0.72</u>	<u>0</u>	<u>"</u>
<u>1040</u>		<u>6.92</u>	<u>343</u>	<u>14.4</u>	<u>35</u>	<u>1.22</u>	<u>0</u>	<u>"</u>
<u>1045</u>		<u>6.90</u>	<u>332.3</u>	<u>14.3</u>	<u>36.2</u>	<u>1.62</u>	<u>0</u>	<u>"</u>
<u>1050</u>		<u>6.90</u>	<u>325.7</u>	<u>14.5</u>	<u>36.8</u>	<u>1.75</u>	<u>0</u>	<u>"</u>

Signature: _____

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<u>1055</u>		<u>6.91</u>	<u>321.7</u>	<u>14.2</u>	<u>37</u>	<u>2.09</u>	<u>0</u>	<u>"</u>
<u>1000</u>		<u>6.94</u>	<u>318.7</u>	<u>14.4</u>	<u>34.3</u>	<u>2.21</u>	<u>0</u>	<u>"</u>
<u>1105</u>		<u>6.94</u>	<u>317.2</u>	<u>14.3</u>	<u>36.9</u>	<u>2.21</u>	<u>0</u>	<u>"</u>
<u>1110</u>								<u>"</u>



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well #: MW-6S

Project Number:	<u>553-8472-009</u>	Date:	<u>10/21/25</u>
Project Name:	<u>Yakima LPL</u>	Company Name:	<u>Parametrix</u>
Project Address:	<u>41 Rocky Top Road</u>	Sampled By:	<u>BH / SN</u>

Casing Diameter:	<u>2"</u> <u>4"</u> <u>6"</u> Other _____		
Initial Depth to Water (feet below TGC):	<u>97.70</u>	Purge Rate Measurement Method:	<u>Y51 probe</u>
Top of Screen (feet bgs):	<u>110</u>	Date Purged:	<u>10/21/25</u>
Bottom of Screen (feet bgs):	<u>130</u>	Purge Time (from/to):	<u>1345 - 1435</u>
Reference Point (surveyor's notch, etc.):	_____	Time Sampled:	<u>1440</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
<u>Initial</u>								
<u>1345</u>	<u>97.70</u>	<u>7.93</u>	<u>499</u>	<u>13.5</u>	<u>62.6</u>	<u>14.52</u>	<u>0.00</u>	<u>50 PSI</u>
<u>1350</u>	<u>98.06</u>	<u>7.49</u>	<u>536</u>	<u>12.6</u>	<u>58.3</u>	<u>6.29</u>		
<u>1355</u>		<u>7.42</u>	<u>547</u>	<u>12.7</u>	<u>54.8</u>	<u>6.39</u>		
<u>1400</u>	<u>98.92</u>	<u>7.25</u>	<u>578</u>	<u>12.7</u>	<u>57.5</u>	<u>6.30</u>		
<u>1405</u>	<u>94.31</u>	<u>7.22</u>	<u>527</u>	<u>12.7</u>	<u>61.5</u>	<u>5.85</u>		
<u>1410</u>	<u>91.63</u>	<u>7.35</u>	<u>511</u>	<u>12.7</u>	<u>66.0</u>	<u>5.67</u>		
<u>1415</u>		<u>7.26</u>	<u>510</u>	<u>12.7</u>	<u>65.2</u>	<u>5.62</u>		
<u>1420</u>	<u>91.77</u>	<u>7.19</u>	<u>510</u>	<u>12.7</u>	<u>65.4</u>	<u>5.32</u>		
<u>1425</u>	<u>100.21</u>	<u>7.14</u>	<u>513</u>	<u>12.8</u>	<u>65.9</u>	<u>5.52</u>		
<u>1430</u>		<u>7.05</u>	<u>516</u>	<u>12.7</u>	<u>61.2</u>	<u>4.53</u>		
Stabilization Criteria		±0.1	3%	3%	-10 mv	10%, or 3	10%, or 3 < 0.5	
<u>1435</u>	<u>103.09</u>	<u>7.04</u>	<u>518</u>	<u>12.8</u>	<u>67.2</u>	<u><0.5</u>		

40/20

Purge Equipment:	_____	Flow Rate:	<u>400 mL/min</u>
Laboratory:	<u>Anatek / onsite</u>	Date Sent to Lab:	<u>10/21/10/22</u>
Shipment Method:	<u>dropped off</u>	Field QC Sample Number:	<u>N/A</u>

Remarks:
Turb meter malfunctioning only says 0.00

Signature: [Handwritten Signature]

Groundwater Sampling Field Data Sheet

Well #: MW-11S

Project Number:	553-5472-004	Date:	10/22/25
Project Name:	Yakima LPI.	Company Name:	PMX
Project Address:	Rocky Top	Sampled By:	BH

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet):	111.31	Purge Rate Measurement Method:	YSI Probe
Depth of Well (feet):	239	Date Purged:	10/22/25
Top of Screen (feet):	219	Purge Time (from/to):	0820 - 0900
Reference Point (surveyor's notch, etc.):		Time Sampled:	0900

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial								
0820	111.75	7.28	219.8	13.3	117.1	11.49	0.00	40/20
0825		7.36	220.4	13.3	105.4	2.49		40/20
0830		7.20	223.4	13.2	94.9	0.64		
0835	112.60	7.27	225.9	13.1	88.7	0.35		
0840		7.35	227.4	12.8	82.5	0.30		
0845		7.60	229.6	12.8	76.6	0.65		
0850		7.43	228.4	12.7	71.8	0.37		
0855	113.1	7.40	229.2	12.3	68.6	0.36		
0900		7.36	229.4	12.3	65.9	0.34		
Stabilization Criteria		±0.1	3%	3%	±10 mv	10% or 3 <5	10% or 3 <5	

100951
120951

Purge Equipment:	YSI Probe	Flow Rate:	240 ml/min
Laboratory:	Anatek / onsite	Date Sent to Lab:	10/22/25
Shipment Method	dropped off	Field QC Sample Number:	MW-135

Remarks:

Turb Meter Malfunction

MS / ASD taken here

Signature: 

Groundwater Sampling Field Data Sheet

Well #: **MW-7D**

Project Number: <u>553-8472-009</u>	Date: <u>10/21/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>BH SN</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet below TOC): <u>448.41</u>	Purge Rate Measurement Method: <u>YSI probe</u>
Top of Screen (feet bgs): <u>475</u>	Date Purged: <u>10/21/25</u>
Bottom of Screen (feet bgs): <u>495</u>	Purge Time (from/to): <u>1205-1230</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1235</u>

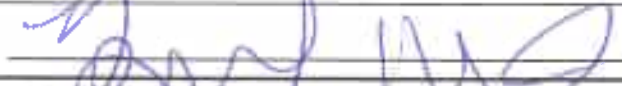
TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial:								
<u>1205</u>	<u>448.34</u>	<u>8.34</u>	<u>167.6</u>	<u>17.2</u>	<u>53.7</u>	<u>11.75</u>	<u>0.00</u>	<u>215/51</u>
<u>1210</u>		<u>7.91</u>	<u>163.2</u>	<u>16.3</u>	<u>52.4</u>	<u>11.90</u>		
<u>1215</u>	<u>448.81</u>	<u>7.88</u>	<u>163.2</u>	<u>16.0</u>	<u>53.8</u>	<u>11.46</u>		
<u>1220</u>		<u>6.96</u>	<u>163.3</u>	<u>15.7</u>	<u>54.0</u>	<u>10.98</u>		
<u>1225</u>		<u>6.94</u>	<u>163.1</u>	<u>15.8</u>	<u>54.0</u>	<u>10.93</u>		
<u>1230</u>		<u>6.91</u>	<u>163.3</u>	<u>15.9</u>	<u>53.5</u>	<u>10.44</u>		
<u>1235</u>								
<u>1240</u>								
<u>1245</u>								
Stabilization Criteria		<u>± 0.1</u>	<u>3%</u>	<u>3%</u>	<u>+10 mv</u>	<u>10%, or 3 mg/L</u>	<u>10%, or 2 < 5.0</u>	

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>250 ml/min</u>
Laboratory: <u>Anatek / Onsite</u>	Date Sent to Lab: <u>10/21/10/22</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Turbidity meter malfunctioning - only says 0.00 even after calibration

Final water level 448.47

Signature: 

Groundwater Sampling Field Data Sheet

Well #: MW-8D

Project Number: <u>553-8472-009</u>	Date: <u>10/22/25</u>
Project Name: <u>Yakima I.PL</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>BH</u>


Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet below TDC): <u>302.26</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>375</u>	Date Purged: <u>10/22/25</u>
Bottom of Screen (feet bgs): <u>405</u>	Purge Time (from/to): <u>1135 - 1200</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1205</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
<u>Initial</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1135</u>	_____	<u>7.97</u>	<u>303.6</u>	<u>15.00</u>	<u>56.5</u>	<u>8.52</u>	<u>0.60</u>	<u>235B1j</u>
<u>1140</u>	_____	<u>7.05</u>	<u>304.6</u>	<u>13.7</u>	<u>51.2</u>	<u>1.33</u>		_____
<u>1145</u>	<u>302.22</u>	<u>7.61</u>	<u>304.1</u>	<u>14.2</u>	<u>50.4</u>	<u>0.37</u>		_____
<u>1150</u>	_____	<u>7.40</u>	<u>318</u>	<u>14.8</u>	<u>51.2</u>	<u>0.15</u>		_____
<u>1155</u>	<u>302.36</u>	<u>7.37</u>	<u>319.3</u>	<u>15.0</u>	<u>50.8</u>	<u>0.14</u>		_____
<u>1200</u>	_____	<u>7.42</u>	<u>320.4</u>	<u>15.0</u>	<u>48</u>	<u>0.15</u>		_____
<u>1205</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1210</u>	_____	_____	_____	_____	_____	_____	_____	_____
<u>1215</u>	_____	_____	_____	_____	_____	_____	_____	_____
Stabilization Criteria		<u>± 0.1</u>	<u>2%</u>	<u>3%</u>	<u>± 10 mv</u>	<u>10%, or 3 < 0.5</u>	<u>10%, or 3 < 5.0</u>	_____

30
~~301470~~

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>295 mL/min</u>
Laboratory: <u>Anatek / on-site</u>	Date Sent to Lab: <u>10/22/25</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks: Turb meter not functioning

Signature: 

Groundwater Sampling Field Data Sheet

Well #: **MW-9D**

Project Number: 553-8472-009 Date: 10/21/25
 Project Name: Yakima I.P.L. Company Name: Parametrix
 Project Address: 41 Rocky Top Road Sampled By: BH + SN


Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet below TOC): 436.4 Purge Rate Measurement Method: YSI Probe
 Top of Screen (feet bgs): 420 Date Purged: 10/21/25
 Bottom of Screen (feet bgs): 440 Purge Time (from/to): 1535-1600
 Reference Point (surveyor's notch, etc.): Time Sampled: 1605

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial								
1535	435.4	7.60	404.9	16	77.8	7.45	0.00	20PSI
1540	435.6	7.05	399.4	14.7	76.8	7.39		
1545		6.73	400	14.5	72.6	5.81		
1550	435.17	6.69	399.6	14.5	71.6	5.85		
1555		6.64	399.9	14.7	70.2	6.32		
1600		6.61	400.5	14.6	67.4	6.61		
1605								
1610								
1615								
Stabilization Criteria		+0.1	3%	3%	± 10 mv	10%, or 3 <math>$$</math>	10%, or 3 <math>$$</math>	

Purge Equipment: YSI Probe Flow Rate: 225 ml/min
 Laboratory: Anatek / onsite Date Sent to Lab: 10.21 / 10.22
 Shipment Method: dropped off Field QC Sample Number: N/A

Remarks:
 Turb meter malfunctioning

Signature: 

Groundwater Sampling Field Data Sheet

Well # MW-10D

Project Number: <u>553-8472-009</u>	Date: <u>10/22/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>BH</u>

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Initial Depth to Water (feet below TOC): <u>80.36</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>147</u>	Date Purged: <u>10/22/25</u>
Bottom of Screen (feet bgs): <u>167</u>	Purge Time (from/to): <u>1235-1300</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1305</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
<u>initial</u>								
<u>1235</u>	<u>80.56</u>	<u>7.5</u>	<u>198.5</u>	<u>14.6</u>	<u>64.1</u>	<u>8.30</u>	<u>0.0</u>	<u>100PSI; 20/10</u>
<u>1240</u>		<u>7.23</u>	<u>198</u>	<u>14.5</u>	<u>63.3</u>	<u>4.28</u>		
<u>1245</u>	<u>80.28</u>	<u>7.21</u>	<u>197.7</u>	<u>14.5</u>	<u>61.1</u>	<u>5.23</u>		
<u>1250</u>		<u>7.07</u>	<u>197.8</u>	<u>14.5</u>	<u>59.5</u>	<u>5.88</u>		
<u>1255</u>		<u>7.01</u>	<u>197.7</u>	<u>14.4</u>	<u>58.8</u>	<u>6.15</u>		
<u>1300</u>		<u>6.99</u>	<u>197.7</u>	<u>14.4</u>	<u>59.4</u>	<u>6.19</u>		
<u>1305</u>								
<u>1310</u>								
<u>1315</u>								
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 <3>	10%, or <3>	

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>365 mL/min</u>
Laboratory: <u>Anatek / OnSite</u>	Date Sent to Lab: <u>10/22/25</u>
Shipment Method: <u>dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Turb meter malfunction

[Signature]

Signature: _____

Field Data Sheet

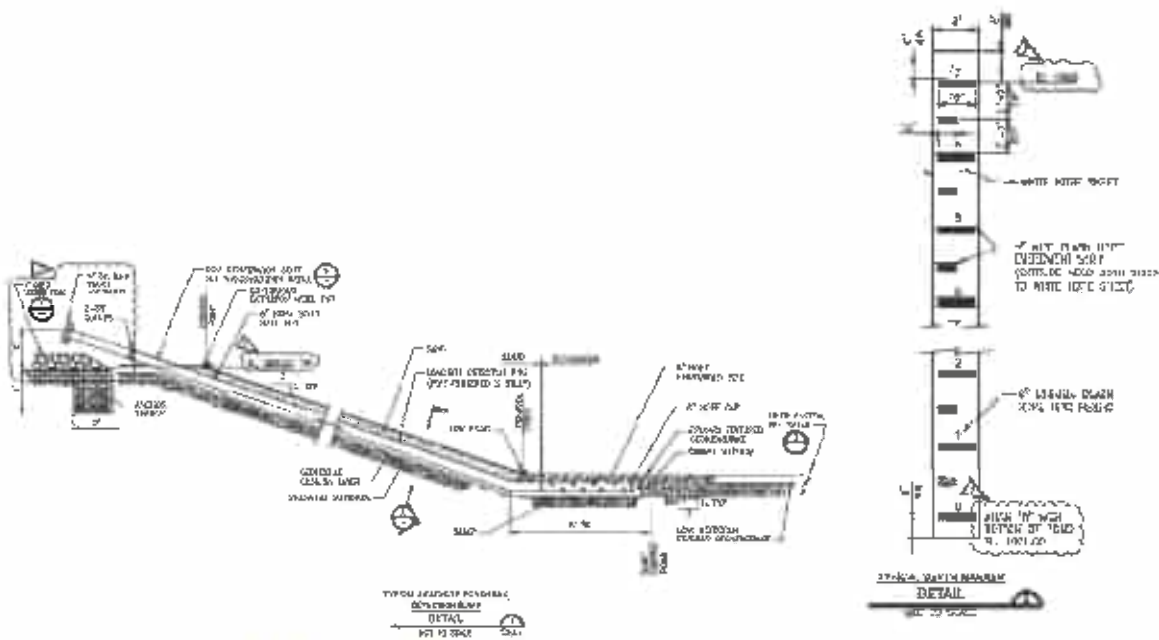
Well #: **Leachate Pond**

Project Number: <u>553-8472-009</u>	Date: <u>10/22/25</u>
Project Name: <u>Yakima LPL</u>	Client Name: <u>DTG Recycle</u>
Project Address: <u>41 Rocky Top Road</u> <u>Yakima, WA</u>	Measured By: <u>BH</u>

TIME (2400 hr)	Depth to Water from top of Cleanout Pipe (ft)	Depth of Water in Leachate Pond (ft)
<u>1320</u>	<u>dry</u>	<u>1.25ft</u>

Remarks:

Pond design:



Signature: _____

[Handwritten Signature]

Water Level Measurement Field Report

DATE: 12/21/25	JOB NO.: 553-8472-009
PROJECT: Yakima LPL	COMPANY NAME: Parametrix
LOCATION: 41 Rocky Top Road	
WEATHER: Cold	TEMP: 25 ° at 0800 AM 34 ° at 1530 PM
PERSONNEL: Bri Hines	

THE FOLLOWING WAS NOTED:

WELL NUMBER	Time	Depth to Water (ft below top of casing)	Measuring Point	Screen Interval (ft bgs)
MW-1S	0850	106.7	TOC	113-133
MW-2S	1007	209.36	TOC	310-330
MW-3S	0908	172.36	TOC	188-198
MW-4S	0937	44.12	TOC	49.5-69.5
MW-5S	1024	218.44	TOC	222-243
MW-6S	0930	98.5	TOC	110-130
MW-11S	0923	113.11	TOC	219-239
MW-7D	1000	449.12	TOC	475-495
MW-8D	0950	302.74	TOC	375-405
MW-9D	0915	431.6	TOC	420-440
MW-10D	0945	80.86	TOC	150-170

Groundwater Sampling Field Data Sheet

Well #: MW-15

Project Number: <u>553-8472-009</u>	Date: <u>12/4/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>PMX</u>
Project Address: <u>Rocky Top</u>	Sampled By: <u>Brittney</u>


Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet): <u>106.7</u>	Purge Rate Measurement Method: <u>VSI Probe</u>
Depth of Well (feet): <u>133</u>	Date Purged: <u>12/4/25</u>
Top of Screen (feet): <u>113</u>	Purge Time (from/to): <u>0910 - 0935</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>0940</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	E _c (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING
Initial	<u>106.85</u>							
<u>0910</u>								<u>40 PSI</u>
<u>0915</u>		<u>8.64</u>	<u>282.5</u>	<u>12.9</u>	<u>55.5</u>	<u>6.68</u>	<u>1.57</u>	<u>120 PSI</u>
<u>0920</u>	<u>108.51</u>	<u>8.47</u>	<u>243.6</u>	<u>12.7</u>	<u>27</u>	<u>1.03</u>	<u>KN37.0</u>	
<u>0925</u>		<u>8.46</u>	<u>202.7</u>	<u>12.8</u>	<u>25.7</u>	<u>0.85</u>	<u>0925 8.38</u>	
<u>0930</u>		<u>8.41</u>	<u>243.3</u>	<u>12.9</u>	<u>24.2</u>	<u>0.72</u>	<u>0930 8.06</u>	
<u>0935</u>		<u>8.38</u>	<u>244.9</u>	<u>12.8</u>	<u>25.3</u>	<u>0.60</u>	<u>7.51</u>	
<u>0940</u>								
<u>0945</u>								
Stabilization Criteria		±0.1	3%	3%	±10 mv	15%, or 3 <0.5	10%, or 3<5.0	

30/20
30/20


Purge Equipment: <u>VSI Probe</u>	Flow Rate: <u>550 mL/min</u>
Laboratory: <u>Anatek, OnSite</u>	Date Sent to Lab: <u>12/4, 12/4</u>
Shipment Method: <u>Dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: 

Groundwater Sampling Field Data Sheet

Well #: **MW-2S**

Project Number: <u>553-8472-009</u>		Date: <u>12/3/25</u>						
Project Name: <u>Yakima LPL</u>		Company Name: <u>Parametrix</u>						
Project Address: <u>41 Rocky Top Road</u>		Sampled By: <u>BH</u>						
Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____								
Initial Depth to Water (feet below TOC): <u>289.36</u>		Purge Rate Measurement Method: <u>YSI Probe</u>						
Tap of Screen (feet bgs): <u>310</u>		Date Purged: <u>12/3/25</u>						
Bottom of Screen (feet bgs): <u>330</u>		Purge Time (from/to): <u>1030 - 1055</u>						
Reference Point (surveyor's notch, etc.): _____		Time Sampled: <u>1100</u>						
TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
<u>Initial</u>	<u>289.54</u>							
<u>1030</u>	<u>289.54</u>	<u>7.96</u>	<u>175</u>	<u>10.6</u>	<u>172.2</u>	<u>15.76</u>	<u>0.00</u>	<u>175psi</u> 30/30
<u>1035</u>		<u>7.85</u>	<u>174.2</u>	<u>11.3</u>	<u>174.2</u>	<u>11.15</u>	<u>0.00</u>	
<u>1040</u>		<u>7.84</u>	<u>172.3</u>	<u>11.4</u>	<u>157.3</u>	<u>9.30</u>	<u>0.00</u>	
<u>1045</u>	<u>289.86</u>	<u>7.73</u>	<u>173.7</u>	<u>11.5</u>	<u>155.1</u>	<u>8.30</u>	<u>0.00</u>	
<u>1050</u>		<u>7.63</u>	<u>173.3</u>	<u>11.6</u>	<u>152.6</u>	<u>8.40</u>	<u>0.00</u>	
<u>1055</u>		<u>7.63</u>	<u>174.9</u>	<u>11.3</u>	<u>158.8</u>	<u>8.96</u>	<u>0.00</u>	
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or ≤ 0.3	10%, or $3 < 0$	
Purge Equipment: <u>YSI Probe</u>		Flow Rate: <u>410 mL/min</u>						
Laboratory: <u>Parametrix / onsite</u>		Date Sent to Lab: <u>12/3 & 12/4</u>						
Shipment Method: <u>dropped off</u>		Field QC Sample Number: <u>N/A</u>						
Remarks:								
<div style="text-align: center; font-size: 2em; font-family: cursive;">  </div>								
Signature:								

Groundwater Sampling Field Data Sheet

Well #: MW-35

Project Number: <u>553-8472-009</u>	Date: <u>12/13/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>BA</u>


Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> Other <input type="checkbox"/>	
Initial Depth to Water (feet below TOC): <u>172.36</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>188</u>	Date Purged: <u>12/13/25</u>
Bottom of Screen (feet bgs): <u>198</u>	Purge Time (from/to): <u>1420-1445</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1450</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
initial	<u>172.5</u>							
<u>1420</u>		<u>7.70</u>	<u>642</u>	<u>13.7</u>	<u>196.9</u>	<u>17.97</u>	<u>0.00</u>	<u>120PSI</u>
<u>1425</u>	<u>173.57</u>	<u>7.10</u>	<u>652</u>	<u>13.1</u>	<u>190.9</u>	<u>9.35</u>	<u>0.00</u>	<u>170PSI</u>
<u>1430</u>		<u>6.94</u>	<u>648</u>	<u>13.7</u>	<u>186.1</u>	<u>6.84</u>	<u>0.00</u>	
<u>1435</u>	<u>173.21</u>	<u>6.98</u>	<u>640</u>	<u>13.6</u>	<u>185.9</u>	<u>7.63</u>	<u>0.00</u>	
<u>1440</u>		<u>6.96</u>	<u>623</u>	<u>13.1</u>	<u>182.5</u>	<u>2.64</u>	<u>0.00</u>	
<u>1445</u>	<u>173</u>	<u>6.95</u>	<u>627</u>	<u>13.6</u>	<u>182.3</u>	<u>7.61</u>	<u>0.00</u>	
<u>1450</u>								
<u>1455</u>								
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 < 0.5	10%, or 3 < 0.5	

30/14
30/15

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>50 ml/min</u>
Laboratory: <u>Analytical / On-site</u>	Date Sent to Lab: <u>12/13 + 12/14</u>
Shipment Method: <u>Dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: 

Groundwater Sampling Field Data Sheet

Well #: MW-4S

Project Number: <u>553-8472-009</u>	Date: <u>12/3/25</u>
Project Name: <u>Yakima I.P.I.</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>BH</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet below TOC): <u>44.12</u>	Purge Rate Measurement Method: <u>YSI probe</u>
Top of Screen (feet bgs): <u>49.5</u>	Date Purged: <u>12/3/25</u>
Bottom of Screen (feet bgs): <u>69.5</u>	Purge Time (from/to): <u>1320 - 1340</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: _____

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial	<u>44.24</u>							
<u>1320</u>		<u>7.49</u>	<u>1089</u>	<u>12.4</u>	<u>20.4</u>	<u>13.62</u>	<u>0.00</u>	<u>60 PSI</u>
<u>1325</u>		<u>7.44</u>	<u>1032</u>	<u>12.4</u>	<u>195.4</u>	<u>7.41</u>	<u>0.00</u>	
<u>1330</u>		<u>7.00</u>	<u>1033</u>	<u>12.4</u>	<u>190.2</u>	<u>6.85</u>	<u>0.00</u>	
<u>1335</u>		<u>7.01</u>	<u>1041</u>	<u>12.4</u>	<u>190</u>	<u>6.82</u>	<u>0.00</u>	
<u>1340</u>		<u>6.97</u>	<u>1036</u>	<u>12.0</u>	<u>188.6</u>	<u>6.76</u>	<u>0.00</u>	
<u>1345</u>								
<u>1350</u>								
Stabilized on Criteria		±0.1	3%	3%	± 10 mv	10%, or 3 <0.5	10%, or 3x5.0	

30/20

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>400 mL/min</u>
Laboratory: <u>Anatec / onsite</u>	Date Sent to Lab: <u>12/3 & 12/4</u>
Shipment Method: <u>drop off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: [Handwritten Signature]

Groundwater Sampling Field Data Sheet

Well #: MW-5S

Project Number: <u>553-8472-009</u>	Date: <u>12/2/25</u>
Project Name: <u>Yakima I.PI.</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>Bo Hines</u>

Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other <u> </u>	
Initial Depth to Water (feet below TOC): <u>218.44</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>222</u>	Date Purged: <u>12/2/25</u>
Bottom of Screen (feet bgs): <u>243</u>	Purge Time (from/to): <u>1055 - 1130</u>
Reference Point (surveyor's notch, etc.): <u> </u>	Time Sampled: <u>1135</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial	—	—	—	—	—	—	—	—
<u>1055</u>	—	<u>7.70</u>	<u>354.6</u>	<u>14.1</u>	<u>214.7</u>	<u>11.65</u>	<u>3.75</u>	<u>150 PSI</u>
<u>1100</u>	<u>218.34</u>	<u>7.59</u>	<u>367.6</u>	<u>14.0</u>	<u>196.4</u>	<u>12.38</u>	<u>2.09</u>	—
<u>1105</u>	—	<u>7.77</u>	<u>607</u>	<u>14.0</u>	<u>171.6</u>	<u>1.78</u>	<u>1.59</u>	—
<u>1110</u>	<u>218.43</u>	<u>7.83</u>	<u>413</u>	<u>13.9</u>	<u>142.2</u>	<u>0.63</u>	<u>0.33</u>	—
<u>1115</u>	—	<u>7.79</u>	<u>399</u>	<u>13.9</u>	<u>135</u>	<u>0.64</u>	<u>0.65</u>	—
<u>1120</u>	—	<u>7.77</u>	<u>363.3</u>	<u>13.9</u>	<u>127</u>	<u>2.34</u>	<u>0.0</u>	—
<u>1125</u>	—	<u>7.78</u>	<u>358.1</u>	<u>13.8</u>	<u>128.3</u>	<u>2.60</u>	<u>0.00</u>	—
<u>1130</u>	<u>218.43</u>	<u>7.75</u>	<u>356.0</u>	<u>13.9</u>	<u>123.3</u>	<u>2.57</u>	<u>0.00</u>	—
<u>1135</u>	—	—	—	—	—	—	—	—
Stabilization Criteria		+ 0.1	3%	3%	± 10 mv	10%, or 3 <0.5	10%, or 3 <5.0	

40220

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>405 mL/min</u>
Laboratory: <u>Ametek On Site</u>	Date Sent to Lab: <u>12/2, 12/4</u>
Shipment Method: <u>Dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: 



Debris to Green
Recycling

Groundwater Sampling Field Data Sheet

Well #: MW-6S

Project Number:	<u>553-8472-009</u>	Date:	<u>12/3/25</u>
Project Name:	<u>Yakima LPL</u>	Company Name:	<u>Parametrix</u>
Project Address:	<u>41 Rocky Top Road</u>	Sampled By:	<u>Ben Hines</u>

Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet below TOC):	<u>98.5</u>	Purge Rate Measurement Method:	<u>YSI Probe</u>
Top of Screen (feet bgs):	<u>110</u>	Date Purged:	<u>12/3/25</u>
Bottom of Screen (feet bgs):	<u>130</u>	Purge Time (from/to):	<u>1140-1205</u>
Reference Point (surveyor's notch, etc.):		Time Sampled:	<u>1215</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
<u>Initial</u>	<u>98.5</u>							
<u>1140</u>								
<u>1145</u>								
<u>1150</u>		<u>7.67</u>	<u>611</u>	<u>12.1</u>	<u>194.3</u>	<u>11.66</u>	<u>0.61</u>	<u>11081</u>
<u>1155</u>		<u>7.46</u>	<u>629</u>	<u>12.1</u>	<u>180.8</u>	<u>6.67</u>	<u>0.00</u>	
<u>1200</u>	<u>99.73</u>	<u>7.38</u>	<u>636</u>	<u>12.2</u>	<u>174.5</u>	<u>6.22</u>	<u>0.00</u>	
<u>1205</u>		<u>7.37</u>	<u>622</u>	<u>12.2</u>	<u>172.8</u>	<u>5.92</u>	<u>0.00</u>	
<u>1210</u>								
<u>1215</u>								
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10% or < 0.5	10% or less	

40620

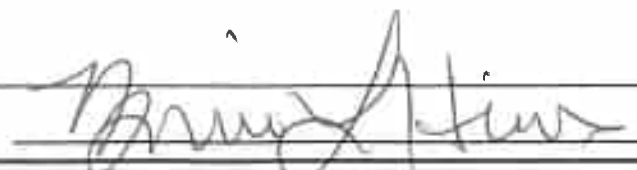
Purge Equipment:	<u>YSI Probe</u>	Flow Rate:	<u>425 mL/min</u>
Laboratory:	<u>Amtek, Onsite</u>	Date Sent to Lab:	<u>12/4, 12/4</u>
Shipment Method	<u>dropped off</u>	Field QC Sample Number:	<u>MW-133</u>

Remarks:
Well frozen - purged/thawed from 1140-1150 before able to get a YSI reading
MS/MSD collected here

Signature: Ben Hines

Groundwater Sampling Field Data Sheet

Well #: **MW-11S**

Project Number: <u>553-8472-009</u>	Date: <u>12/2/25</u>																																																																																																																			
Project Name: <u>Yakima LPL</u>	Company Name: <u>P.M.X</u>																																																																																																																			
Project Address: <u>Rocky Top</u>	Sampled By: <u>B. Hines</u>																																																																																																																			
Casing Diameter: 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> Other <input type="checkbox"/>																																																																																																																				
Initial Depth to Water (feet): <u>113.11</u>	Purge Rate Measurement Method: <u>YSI Probe</u>																																																																																																																			
Depth of Well (feet): <u>239</u>	Date Purged: <u>12/2/25</u>																																																																																																																			
Top of Screen (feet) <u>219</u>	Purge Time (from/to): <u>1420 - 1445</u>																																																																																																																			
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1450</u>																																																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 10px;"> <thead> <tr> <th>TIME (2400 hr)</th> <th>DEPTH TO WATER (ft)</th> <th>pH (units)</th> <th>Ec (µmhos/cm 25°C)</th> <th>TEMP °C</th> <th>Redox (mv)</th> <th>Dissolved Oxygen mg/L</th> <th>TURBIDITY (visual)</th> <th>PUMP SETTING</th> </tr> </thead> <tbody> <tr> <td>Initial</td> <td><u>113.32</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>1420</u></td> <td><u>113.32</u></td> <td><u>8.14</u></td> <td><u>260.4</u></td> <td><u>12.7</u></td> <td><u>171.6</u></td> <td><u>3.73</u></td> <td><u>1.51</u></td> <td><u>12081</u></td> </tr> <tr> <td><u>1425</u></td> <td>_____</td> <td><u>8.05</u></td> <td><u>262.5</u></td> <td><u>13.2</u></td> <td><u>175.5</u></td> <td><u>1.82</u></td> <td><u>0.52</u></td> <td>_____</td> </tr> <tr> <td><u>1430</u></td> <td>_____</td> <td><u>7.95</u></td> <td><u>268.4</u></td> <td><u>12.6</u></td> <td><u>174</u></td> <td><u>1.52</u></td> <td><u>1.49</u></td> <td>_____</td> </tr> <tr> <td><u>1435</u></td> <td>_____</td> <td><u>7.79</u></td> <td><u>267.7</u></td> <td><u>13.2</u></td> <td><u>172.8</u></td> <td><u>1.42</u></td> <td><u>0.00</u></td> <td>_____</td> </tr> <tr> <td><u>1440</u></td> <td>_____</td> <td><u>7.74</u></td> <td><u>267.2</u></td> <td><u>13.2</u></td> <td><u>171.7</u></td> <td><u>1.36</u></td> <td><u>0.00</u></td> <td>_____</td> </tr> <tr> <td><u>1445</u></td> <td><u>116.78</u></td> <td><u>7.74</u></td> <td><u>270.2</u></td> <td><u>13.1</u></td> <td><u>170.8</u></td> <td><u>1.29</u></td> <td><u>0.00</u></td> <td>_____</td> </tr> <tr> <td><u>1450</u></td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Stabilization Criteria</td> <td></td> <td>± 0.1</td> <td>5%</td> <td>3%</td> <td>± 10 mv</td> <td>10%, or 2 <0.5</td> <td>10%, or 3<5.0</td> <td></td> </tr> </tbody> </table>									TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING	Initial	<u>113.32</u>								<u>1420</u>	<u>113.32</u>	<u>8.14</u>	<u>260.4</u>	<u>12.7</u>	<u>171.6</u>	<u>3.73</u>	<u>1.51</u>	<u>12081</u>	<u>1425</u>	_____	<u>8.05</u>	<u>262.5</u>	<u>13.2</u>	<u>175.5</u>	<u>1.82</u>	<u>0.52</u>	_____	<u>1430</u>	_____	<u>7.95</u>	<u>268.4</u>	<u>12.6</u>	<u>174</u>	<u>1.52</u>	<u>1.49</u>	_____	<u>1435</u>	_____	<u>7.79</u>	<u>267.7</u>	<u>13.2</u>	<u>172.8</u>	<u>1.42</u>	<u>0.00</u>	_____	<u>1440</u>	_____	<u>7.74</u>	<u>267.2</u>	<u>13.2</u>	<u>171.7</u>	<u>1.36</u>	<u>0.00</u>	_____	<u>1445</u>	<u>116.78</u>	<u>7.74</u>	<u>270.2</u>	<u>13.1</u>	<u>170.8</u>	<u>1.29</u>	<u>0.00</u>	_____	<u>1450</u>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	Stabilization Criteria		± 0.1	5%	3%	± 10 mv	10%, or 2 <0.5	10%, or 3<5.0	
TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (visual)	PUMP SETTING																																																																																																												
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<u>1430</u>	_____	<u>7.95</u>	<u>268.4</u>	<u>12.6</u>	<u>174</u>	<u>1.52</u>	<u>1.49</u>	_____																																																																																																												
<u>1435</u>	_____	<u>7.79</u>	<u>267.7</u>	<u>13.2</u>	<u>172.8</u>	<u>1.42</u>	<u>0.00</u>	_____																																																																																																												
<u>1440</u>	_____	<u>7.74</u>	<u>267.2</u>	<u>13.2</u>	<u>171.7</u>	<u>1.36</u>	<u>0.00</u>	_____																																																																																																												
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_____	_____	_____	_____	_____	_____	_____	_____	_____																																																																																																												
Stabilization Criteria		± 0.1	5%	3%	± 10 mv	10%, or 2 <0.5	10%, or 3<5.0																																																																																																													
Purge Equipment: <u>YSI Probe</u>				Flow Rate: <u>400 mL/min</u>																																																																																																																
Laboratory: <u>Anatek, On Site</u>				Date Sent to Lab: <u>12/3, 12/1</u>																																																																																																																
Shipment Method: <u>Dropped off</u>				Field QC Sample Number: <u>N/A</u>																																																																																																																
Remarks: _____ <div style="text-align: center;">  </div>																																																																																																																				
Signature: _____																																																																																																																				

30/20

Groundwater Sampling Field Data Sheet

Well # MW-7D

Project Number: <u>553-8472-009</u>	Date: <u>12/2/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>Bill Hines</u>

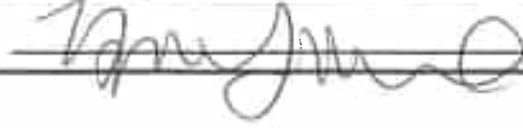
Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other _____	
Initial Depth to Water (feet below TGC): <u>449.12</u>	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>475</u>	Date Purged: <u>12/2/25</u>
Bottom of Screen (feet bgs): <u>495</u>	Purge Time (from/to): <u>1235-1330</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1330</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
<u>1235</u>	<u>448.31</u>	<u>7.91</u>	<u>186.8</u>	<u>13.8</u>	<u>173.7</u>	<u>0.97</u>	<u>0.41</u>	<u>250 PSI</u>
<u>1240</u>	_____	<u>7.60</u>	<u>186.5</u>	<u>13.8</u>	<u>173.2</u>	<u>1.70</u>	<u>0.36</u>	_____
<u>1245</u>	_____	<u>7.47</u>	<u>196.6</u>	<u>14.0</u>	<u>169.7</u>	<u>1.33</u>	<u>0.00</u>	_____
<u>1250</u>	<u>448.8</u>	<u>7.58</u>	<u>186.5</u>	<u>13.9</u>	<u>161.5</u>	<u>3.70</u>	<u>0.00</u>	_____
<u>1255</u>	_____	<u>7.60</u>	<u>186.7</u>	<u>14.3</u>	<u>159.9</u>	<u>3.08</u>	<u>0.00</u>	_____
<u>1300</u>	_____	<u>7.65</u>	<u>186</u>	<u>13.9</u>	<u>156.1</u>	<u>1.82</u>	<u>0.00</u>	_____
<u>1305</u>	_____	<u>7.68</u>	<u>186.1</u>	<u>14.3</u>	<u>153.4</u>	<u>1.22</u>	<u>0.00</u>	_____
<u>1310</u>	_____	<u>7.71</u>	<u>186.1</u>	<u>14.4</u>	<u>150.1</u>	<u>0.62</u>	<u>0.00</u>	_____
<u>1315</u>	_____	<u>7.72</u>	<u>186</u>	<u>14.4</u>	<u>146.2</u>	<u>0.62</u>	<u>0.00</u>	_____
Stabilization Criteria		1.01	3%	3%	± 10 mv	± 0.05, or 3 < 0.5	10%, or 3 < 5.0	

40/35

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>3750 mL/min</u>
Laboratory: <u>Anatek, On Site</u>	Date Sent to Lab: <u>12/2, 12/4</u>
Shipment Method: <u>Dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:	pH	Ec	TEMP °C	Redox	DO	TURBIDITY
<u>1320</u>	<u>7.74</u>	<u>186.1</u>	<u>14.4</u>	<u>144.7</u>	<u>0.47</u>	<u>0.00</u>
<u>1325</u>	<u>7.73</u>	<u>186.3</u>	<u>14.4</u>	<u>143.6</u>	<u>0.43</u>	<u>0.00</u>
<u>1330</u>	<u>7.72</u>	<u>185.5</u>	<u>14.5</u>	<u>142.9</u>	<u>0.46</u>	<u>0.00</u>

Signature: 

Groundwater Sampling Field Data Sheet

Well #: MW-8D

Project Number: <u>553-8472-009</u>	Date: <u>12/3/25</u>
Project Name: <u>Yakima LPL</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>Bri Hines</u>

Casing Diameter: 2" 4" 6" Other: _____


Initial Depth to Water (feet below TOC): <u>302.74</u> ^{8x} 499.22	Purge Rate Measurement Method: <u>YSI Probe</u>
Top of Screen (feet bgs): <u>375</u>	Date Purged: <u>12/3/25</u>
Bottom of Screen (feet bgs): <u>405</u>	Purge Time (from/to): <u>0920 - 0955</u>
Reference Point (surveyor's notch, etc.): _____	Time Sampled: <u>1000</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial	<u>302.90</u>							
<u>0930</u>		<u>8.77</u>	<u>370.6</u>	<u>11.00</u>	<u>201.9</u>	<u>7.50</u>	<u>0.73</u>	<u>230091</u>
<u>0935</u>		<u>8.31</u>	<u>376.3</u>	<u>13.2</u>	<u>181.1</u>	<u>2.45</u>	<u>0.26</u>	
<u>0930</u>		<u>8.14</u>	<u>391.6</u>	<u>12.5</u>	<u>167.3</u>	<u>6.11</u>	<u>0.43</u>	
<u>0935</u>		<u>8.16</u>	<u>382.4</u>	<u>10.0</u>	<u>155.5</u>	<u>1.02</u>	<u>0.00</u>	
<u>0940</u>		<u>8.11</u>	<u>402.4</u>	<u>13.5</u>	<u>152</u>	<u>0.54</u>	<u>0.00</u>	
<u>0945</u>		<u>8.04</u>	<u>399.8</u>	<u>13.5</u>	<u>152.3</u>	<u>0.52</u>	<u>0.00</u>	
<u>0950</u>		<u>8.16</u>	<u>398.7</u>	<u>13.3</u>	<u>162.6</u>	<u>0.62</u>	<u>0.00</u>	
<u>0955</u>		<u>8.11</u>	<u>400.7</u>	<u>13.7</u>	<u>157.0</u>	<u>0.59</u>	<u>0.00</u>	
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	10%, or 3 < 0.5	10%, or 3-5.0	

30/30

Purge Equipment: <u>YSI Probe</u>	Flow Rate: <u>380 ml/min</u>
Laboratory: <u>Anatek, On Site</u>	Date Sent to Lab: <u>12/4, 12/4</u>
Shipment Method: <u>Dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: 

Groundwater Sampling Field Data Sheet

Well #: **MW-9D**

Project Number: <u>553-8472-009</u>	Date: <u>12/2/25</u>
Project Name: <u>Yakima L.P.T.</u>	Company Name: <u>Parametrix</u>
Project Address: <u>41 Rocky Top Road</u>	Sampled By: <u>Ben Hines</u>


Casing Diameter: <u>2"</u> <u>4"</u> <u>6"</u> Other <u> </u>	
Initial Depth to Water (feet below TOC): <u>431.8</u>	Purge Rate Measurement Method: <u>VSI Probe</u>
Top of Screen (feet bgs): <u>420</u>	Date Purged: <u>12/2/25</u>
Bottom of Screen (feet bgs): <u>440</u>	Purge Time (from/to): <u>1520 - 1543.5</u>
Reference Point (surveyor's notch, etc.): <u> </u>	Time Sampled: <u>1540</u>

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
<u>Initial</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1520</u>	<u>431.64</u>	<u>7.28</u>	<u>442.2</u>	<u>9.4</u>	<u>182.4</u>	<u>11.2</u>	<u>1.22</u>	<u>245 PSI</u>
<u>1525</u>	<u> </u>	<u>7.22</u>	<u>455.8</u>	<u>12.4</u>	<u>180.4</u>	<u>12.09</u>	<u>0.00</u>	<u> </u>
<u>1530</u>	<u> </u>	<u>7.19</u>	<u>457.5</u>	<u>12.6</u>	<u>180.1</u>	<u>12.06</u>	<u>0.00</u>	<u> </u>
<u>1535</u>	<u> </u>	<u>7.18</u>	<u>457.1</u>	<u>12.5</u>	<u>179.4</u>	<u>10.99</u>	<u>0.00</u>	<u> </u>
<u>1540</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1545</u>	<u>437.3</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1550</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1555</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1600</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Stabilization Criteria		± 0.1	3%	3%	± 10 mv	30%, or 3 <0.5	10%, or 3 <5.0	

60/40

Purge Equipment: <u>VSI Probe</u>	Flow Rate: <u>350 ml/min</u>
Laboratory: <u>Anatek, Onsite</u>	Date Sent to Lab: <u>12/3, 12/4</u>
Shipment Method: <u>Dropped off</u>	Field QC Sample Number: <u>N/A</u>

Remarks:

Signature: 

Groundwater Sampling Field Data Sheet

Well # MW-10D

Project Number: 553-8472-009 Date: 12/3/25
 Project Name: Yakima LPL Company Name: Parametrix
 Project Address: 41 Rocky Top Road Sampled By: Bo Hines

Casing Diameter: 2" 4" 6" Other

Initial Depth to Water (feet below TOC): 80.86 Purge Rate Measurement Method: YSI Probe
 Top of Screen (feet bgs): 117 Date Purged: 12/3/25
 Bottom of Screen (feet bgs): 167 Purge Time (from/to): 1525 - 1540
 Reference Point (surveyor's notch, etc.): _____ Time Sampled: 1545

TIME (2400 hr)	DEPTH TO WATER (ft)	pH (units)	Ec (µmhos/cm 25°C)	TEMP °C	Redox (mv)	Dissolved Oxygen mg/L	TURBIDITY (NTU)	PUMP SETTING
Initial	<u>80.70</u>							
<u>1525</u>		<u>7.67</u>	<u>227.3</u>	<u>12.4</u>	<u>191.2</u>	<u>17.17</u>	<u>0.07</u>	<u>95PSI</u>
<u>1530</u>		<u>7.30</u>	<u>227.9</u>	<u>13.7</u>	<u>184.3</u>	<u>5.06</u>	<u>0.00</u>	
<u>1535</u>		<u>7.28</u>	<u>226.6</u>	<u>13.7</u>	<u>180.5</u>	<u>5.52</u>	<u>0.00</u>	
<u>1540</u>		<u>7.28</u>	<u>225.6</u>	<u>13.7</u>	<u>175.6</u>	<u>5.92</u>	<u>0.00</u>	
<u>1545</u>								
<u>1550</u>								
<u>1555</u>								
<u>1600</u>								
Stabilization Criteria		±0.1	3%	3%	±10 mv	10%, or 3 <0.5	10%, or 3 <0.5	

20/10

Purge Equipment: YSI Probe Flow Rate: 290 mL/min
 Laboratory: Anatek, On Site Date Sent to Lab: 12/4/25, both
 Shipment Method: Droped off Field QC Sample Number: N/A

Remarks:

Signature: Bo Hines

Field Data Sheet

Well #: Leachate Pond

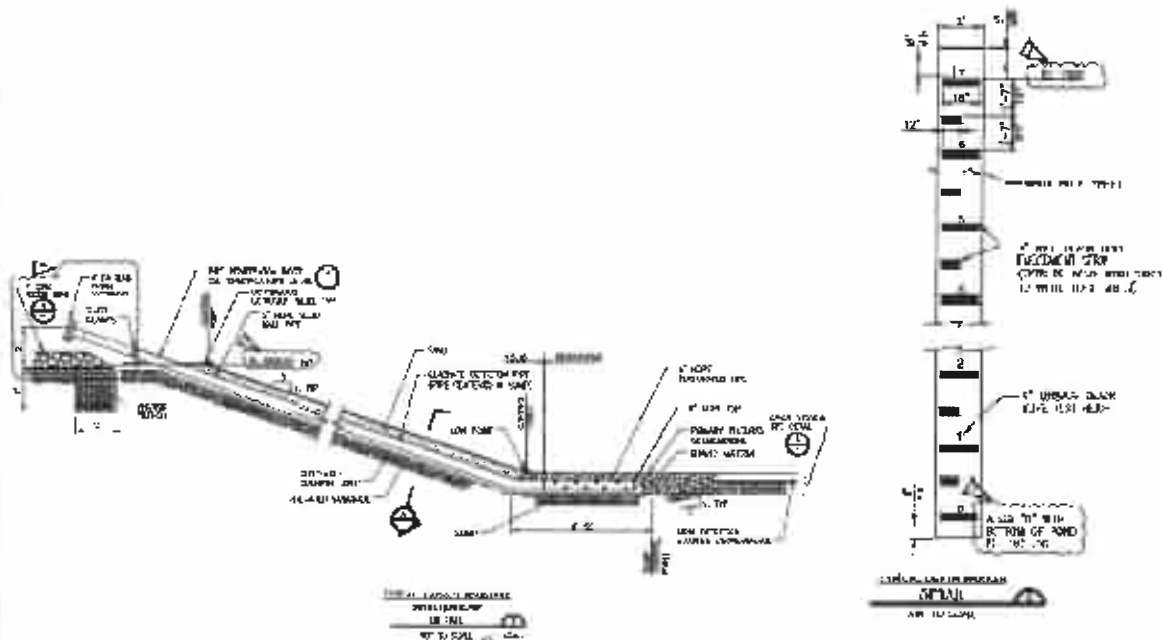
Project Number: _____	Date: <u>12/4/25</u>
Project Name: <u>Yakima T.P.</u>	Client Name: <u>DTG Recycle</u>
Project Address: <u>41 Rocky Top Road</u> <u>Yakima, WA</u>	Measured By: <u>Br Kelly</u>

TIME (2400 hr)	Depth to Water from top of Cleanout Pipe (ft)	Depth of Water in Leachate Pond (ft)
<u>1030</u>	_____	<u>2.55ft</u>

Remarks:

Top 1928 ft, bottom 1921 ft; approximate length of pipe 22 ft (3:1)

Pond design:



Signature: *Br Kelly*

*Could not get the cap off the cleanout pipe to measure
 Couldn't collect samples b/c pond was frozen*

Appendix B

Fourth Quarter 2025
Laboratory Analytical
Reports



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 5, 2025

Laura Lee
Parametrix, Inc.
719 2nd Avenue, Suite 200
Seattle, WA 98104

Re: Analytical Data for Project 553-8472-009
Laboratory Reference No. 2510-332

Dear Laura:

Enclosed are the analytical results and associated quality control data for samples submitted on October 22, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 5, 2025
Samples Submitted: October 22, 2025
Laboratory Reference: 2510-332
Project: 553-8472-009

Case Narrative

Samples were collected on October 21 and 22, 2025 and received by the laboratory on October 22, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 5, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-332
 Project: 553-8472-009

**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-332-01					
Total Alkalinity	100	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-5S					
Laboratory ID:	10-332-02					
Total Alkalinity	110	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-6S					
Laboratory ID:	10-332-03					
Total Alkalinity	98	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-11S					
Laboratory ID:	10-332-04					
Total Alkalinity	110	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-13S					
Laboratory ID:	10-332-05					
Total Alkalinity	110	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-7D					
Laboratory ID:	10-332-06					
Total Alkalinity	98	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-8D					
Laboratory ID:	10-332-07					
Total Alkalinity	94	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-9D					
Laboratory ID:	10-332-08					
Total Alkalinity	94	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-10D					
Laboratory ID:	10-332-09					
Total Alkalinity	98	2.0	SM 2320B	10-27-25	10-27-25	



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Date of Report: November 5, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-332
 Project: 553-8472-009

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Total Alkalinity	ND	2.0	SM 2320B	10-27-25	10-27-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-332-04							
	ORIG	DUP						
Total Alkalinity	110	112	NA	NA	NA	2	10	

MATRIX SPIKES

Laboratory ID:	10-332-04									
	MS	MSD	MS	MSD	MS	MSD				
Total Alkalinity	194	196	100	100	110	84	86	80-120	1	20

SPIKE BLANK

Laboratory ID:	SB1027W1									
	SB		SB		SB					
Total Alkalinity	102		100		102			81-104	NA	NA



Date of Report: November 5, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-332
 Project: 553-8472-009

**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-332-01					
Bicarbonate	100	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-5S					
Laboratory ID:	10-332-02					
Bicarbonate	110	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-6S					
Laboratory ID:	10-332-03					
Bicarbonate	98	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-11S					
Laboratory ID:	10-332-04					
Bicarbonate	110	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-13S					
Laboratory ID:	10-332-05					
Bicarbonate	110	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-7D					
Laboratory ID:	10-332-06					
Bicarbonate	98	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-8D					
Laboratory ID:	10-332-07					
Bicarbonate	94	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-9D					
Laboratory ID:	10-332-08					
Bicarbonate	94	2.0	SM 2320B	10-27-25	10-27-25	

Client ID:	MW-10D					
Laboratory ID:	10-332-09					
Bicarbonate	98	2.0	SM 2320B	10-27-25	10-27-25	



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Date of Report: November 5, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-332
 Project: 553-8472-009

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Bicarbonate	ND	2.0	SM 2320B	10-27-25	10-27-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-332-04							
	ORIG	DUP						
Bicarbonate	110	112	NA	NA	NA	2	10	

MATRIX SPIKES										
Laboratory ID:	10-332-04									
	MS	MSD	MS	MSD	MS	MSD				
Bicarbonate	194	196	100	100	110	84	86	80-120	1	20

SPIKE BLANK										
Laboratory ID:	SB1027W1									
	SB		SB		SB					
Bicarbonate	102		100		102		81-104		NA	NA



Date of Report: November 5, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-332
 Project: 553-8472-009

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-332-01					
Total Dissolved Solids	160	13	SM 2540C	10-27-25	10-27-25	

Client ID:	MW-5S					
Laboratory ID:	10-332-02					
Total Dissolved Solids	210	13	SM 2540C	10-27-25	10-27-25	

Client ID:	MW-6S					
Laboratory ID:	10-332-03					
Total Dissolved Solids	380	13	SM 2540C	10-27-25	10-27-25	

Client ID:	MW-11S					
Laboratory ID:	10-332-04					
Total Dissolved Solids	130	13	SM 2540C	10-27-25	10-27-25	

Client ID:	MW-13S					
Laboratory ID:	10-332-05					
Total Dissolved Solids	160	13	SM 2540C	10-27-25	10-27-25	

Client ID:	MW-7D					
Laboratory ID:	10-332-06					
Total Dissolved Solids	130	13	SM 2540C	10-27-25	10-27-25	

Client ID:	MW-8D					
Laboratory ID:	10-332-07					
Total Dissolved Solids	260	13	SM 2540C	10-27-25	10-27-25	

Client ID:	MW-9D					
Laboratory ID:	10-332-08					
Total Dissolved Solids	310	13	SM 2540C	10-27-25	10-27-25	

Client ID:	MW-10D					
Laboratory ID:	10-332-09					
Total Dissolved Solids	170	13	SM 2540C	10-27-25	10-27-25	



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Date of Report: November 5, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-332
 Project: 553-8472-009

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Total Dissolved Solids	ND	13	SM 2540C	10-27-25	10-27-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-332-04							
	ORIG	DUP						
Total Dissolved Solids	135	101	NA	NA	NA	29	40	

SPIKE BLANK								
Laboratory ID:	SB1027W1							
	SB	SB		SB				
Total Dissolved Solids	497	500	NA	99	72-123	NA	NA	



Date of Report: November 5, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-332
 Project: 553-8472-009

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-332-01					
Chloride	4.7	2.0	SM 4500-Cl E	10-27-25	10-27-25	

Client ID:	MW-5S					
Laboratory ID:	10-332-02					
Chloride	18	2.0	SM 4500-Cl E	10-27-25	10-27-25	

Client ID:	MW-6S					
Laboratory ID:	10-332-03					
Chloride	63	2.0	SM 4500-Cl E	10-27-25	10-27-25	

Client ID:	MW-11S					
Laboratory ID:	10-332-04					
Chloride	7.6	2.0	SM 4500-Cl E	10-27-25	10-27-25	

Client ID:	MW-13S					
Laboratory ID:	10-332-05					
Chloride	8.0	2.0	SM 4500-Cl E	10-27-25	10-27-25	

Client ID:	MW-7D					
Laboratory ID:	10-332-06					
Chloride	2.5	2.0	SM 4500-Cl E	10-27-25	10-27-25	

Client ID:	MW-8D					
Laboratory ID:	10-332-07					
Chloride	16	2.0	SM 4500-Cl E	10-27-25	10-27-25	

Client ID:	MW-9D					
Laboratory ID:	10-332-08					
Chloride	42	2.0	SM 4500-Cl E	10-27-25	10-27-25	

Client ID:	MW-10D					
Laboratory ID:	10-332-09					
Chloride	3.1	2.0	SM 4500-Cl E	10-27-25	10-27-25	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Chloride	ND	2.0	SM 4500-Cl E	10-27-25	10-27-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-332-04							
	ORIG	DUP						
Chloride	7.60	7.74	NA	NA	NA	NA	2	15

MATRIX SPIKES

Laboratory ID:	10-332-04									
	MS	MSD	MS	MSD		MS	MSD			
Chloride	53.6	56.8	50.0	50.0	7.60	92	98	79-131	6	20

SPIKE BLANK

Laboratory ID:	SB1027W1									
	SB		SB			SB				
Chloride	45.1		50.0		NA	90		82-123	NA	NA



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SULFATE
ASTM D516-16

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-332-01					
Sulfate	13	5.0	ASTM D516-16	11-4-25	11-4-25	

Client ID:	MW-5S					
Laboratory ID:	10-332-02					
Sulfate	58	10	ASTM D516-16	11-4-25	11-4-25	

Client ID:	MW-6S					
Laboratory ID:	10-332-03					
Sulfate	66	10	ASTM D516-16	11-4-25	11-4-25	

Client ID:	MW-11S					
Laboratory ID:	10-332-04					
Sulfate	14	5.0	ASTM D516-16	11-4-25	11-4-25	

Client ID:	MW-13S					
Laboratory ID:	10-332-05					
Sulfate	14	5.0	ASTM D516-16	11-4-25	11-4-25	

Client ID:	MW-7D					
Laboratory ID:	10-332-06					
Sulfate	ND	5.0	ASTM D516-16	11-4-25	11-4-25	

Client ID:	MW-8D					
Laboratory ID:	10-332-07					
Sulfate	65	20	ASTM D516-16	11-4-25	11-4-25	

Client ID:	MW-9D					
Laboratory ID:	10-332-08					
Sulfate	74	20	ASTM D516-16	11-4-25	11-4-25	

Client ID:	MW-10D					
Laboratory ID:	10-332-09					
Sulfate	12	5.0	ASTM D516-16	11-4-25	11-4-25	



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**SULFATE
 ASTM D516-16
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1104W1					
Sulfate	ND	5.0	ASTM D516-16	11-4-25	11-4-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-332-04							
	ORIG	DUP						
Sulfate	14.1	14.1	NA	NA	NA	0	11	

MATRIX SPIKES

Laboratory ID:	11-332-04									
	MS	MSD	MS	MSD		MS	MSD			
Sulfate	24.0	23.3	10.0	10.0	14.1	99	92	70-131	3	20

SPIKE BLANK

Laboratory ID:	SB1104W1									
	SB		SB			SB				
Sulfate	9.94		10.0		NA	99		83-113	NA	NA



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-332-01					
Ammonia	0.094	0.053	SM 4500-NH3 D	10-31-25	10-31-25	

Client ID:	MW-5S					
Laboratory ID:	10-332-02					
Ammonia	ND	0.053	SM 4500-NH3 D	10-31-25	10-31-25	

Client ID:	MW-6S					
Laboratory ID:	10-332-03					
Ammonia	ND	0.053	SM 4500-NH3 D	10-31-25	10-31-25	

Client ID:	MW-11S					
Laboratory ID:	10-332-04					
Ammonia	0.062	0.053	SM 4500-NH3 D	10-31-25	10-31-25	

Client ID:	MW-13S					
Laboratory ID:	10-332-05					
Ammonia	ND	0.053	SM 4500-NH3 D	10-31-25	10-31-25	

Client ID:	MW-7D					
Laboratory ID:	10-332-06					
Ammonia	ND	0.053	SM 4500-NH3 D	10-31-25	10-31-25	

Client ID:	MW-8D					
Laboratory ID:	10-332-07					
Ammonia	ND	0.053	SM 4500-NH3 D	10-31-25	10-31-25	

Client ID:	MW-9D					
Laboratory ID:	10-332-08					
Ammonia	ND	0.053	SM 4500-NH3 D	10-31-25	10-31-25	

Client ID:	MW-10D					
Laboratory ID:	10-332-09					
Ammonia	ND	0.053	SM 4500-NH3 D	10-31-25	10-31-25	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1031W1					
Ammonia	ND	0.053	SM 4500-NH3 D	10-31-25	10-31-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-332-04							
	ORIG	DUP						
Ammonia	0.0618	0.0572	NA	NA	NA	NA	8	21

MATRIX SPIKES

Laboratory ID:	10-332-04									
	MS	MSD	MS	MSD	MS	MSD				
Ammonia	5.07	5.17	5.00	5.00	0.0618	100	102	76-114	2	20

SPIKE BLANK

Laboratory ID:	SB1031W1									
	SB		SB		SB					
Ammonia	4.91		5.00		NA	98		81-110	NA	NA



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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-332-01					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-25	10-27-25	

Client ID:	MW-5S					
Laboratory ID:	10-332-02					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-25	10-27-25	

Client ID:	MW-6S					
Laboratory ID:	10-332-03					
Total Organic Carbon	3.3	1.0	SM 5310B	10-27-25	10-27-25	

Client ID:	MW-11S					
Laboratory ID:	10-332-04					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-25	10-27-25	

Client ID:	MW-13S					
Laboratory ID:	10-332-05					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-25	10-27-25	

Client ID:	MW-7D					
Laboratory ID:	10-332-06					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-25	10-27-25	

Client ID:	MW-8D					
Laboratory ID:	10-332-07					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-25	10-27-25	

Client ID:	MW-9D					
Laboratory ID:	10-332-08					
Total Organic Carbon	2.8	1.0	SM 5310B	10-27-25	10-27-25	

Client ID:	MW-10D					
Laboratory ID:	10-332-09					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-25	10-27-25	



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Total Organic Carbon	ND	1.0	SM 5310B	10-27-25	10-27-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-332-04							
	ORIG	DUP						
Total Organic Carbon	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKES

Laboratory ID:	10-332-04									
	MS	MSD	MS	MSD	MS	MSD				
Total Organic Carbon	11.1	9.55	10.0	10.0	ND	111	96	70-136	15	20

SPIKE BLANK

Laboratory ID:	SB1027W1									
	SB		SB		SB					
Total Organic Carbon	10.2		10.0		NA	102		83-130	NA	NA



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**DISSOLVED METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-332-01					
Calcium	19	1.1	EPA 6010D		10-30-25	
Iron	ND	0.056	EPA 6010D		10-30-25	
Magnesium	12	1.1	EPA 6010D		10-30-25	
Manganese	0.33	0.011	EPA 6010D		10-30-25	
Potassium	2.9	1.1	EPA 6010D		10-30-25	
Sodium	17	1.1	EPA 6010D		10-30-25	

Client ID:	MW-5S					
Laboratory ID:	10-332-02					
Calcium	29	1.1	EPA 6010D		10-30-25	
Iron	0.081	0.056	EPA 6010D		10-30-25	
Magnesium	20	1.1	EPA 6010D		10-30-25	
Manganese	0.026	0.011	EPA 6010D		10-30-25	
Potassium	3.9	1.1	EPA 6010D		10-30-25	
Sodium	19	1.1	EPA 6010D		10-30-25	

Client ID:	MW-6S					
Laboratory ID:	10-332-03					
Calcium	50	1.1	EPA 6010D		10-30-25	
Iron	ND	0.056	EPA 6010D		10-30-25	
Magnesium	36	1.1	EPA 6010D		10-30-25	
Manganese	ND	0.011	EPA 6010D		10-30-25	
Potassium	5.2	1.1	EPA 6010D		10-30-25	
Sodium	19	1.1	EPA 6010D		10-30-25	

Client ID:	MW-11S					
Laboratory ID:	10-332-04					
Calcium	20	1.1	EPA 6010D		10-30-25	
Iron	ND	0.056	EPA 6010D		10-30-25	
Magnesium	15	1.1	EPA 6010D		10-30-25	
Manganese	0.13	0.011	EPA 6010D		10-30-25	
Potassium	4.0	1.1	EPA 6010D		10-30-25	
Sodium	14	1.1	EPA 6010D		10-30-25	



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**DISSOLVED METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13S					
Laboratory ID:	10-332-05					
Calcium	20	1.1	EPA 6010D		10-30-25	
Iron	ND	0.056	EPA 6010D		10-30-25	
Magnesium	15	1.1	EPA 6010D		10-30-25	
Manganese	0.13	0.011	EPA 6010D		10-30-25	
Potassium	4.1	1.1	EPA 6010D		10-30-25	
Sodium	14	1.1	EPA 6010D		10-30-25	

Client ID:	MW-7D					
Laboratory ID:	10-332-06					
Calcium	14	1.1	EPA 6010D		10-30-25	
Iron	ND	0.056	EPA 6010D		10-30-25	
Magnesium	11	1.1	EPA 6010D		10-30-25	
Manganese	0.031	0.011	EPA 6010D		10-30-25	
Potassium	3.0	1.1	EPA 6010D		10-30-25	
Sodium	12	1.1	EPA 6010D		10-30-25	

Client ID:	MW-8D					
Laboratory ID:	10-332-07					
Calcium	28	1.1	EPA 6010D		10-30-25	
Iron	ND	0.056	EPA 6010D		10-30-25	
Magnesium	21	1.1	EPA 6010D		10-30-25	
Manganese	0.034	0.011	EPA 6010D		10-30-25	
Potassium	3.4	1.1	EPA 6010D		10-30-25	
Sodium	21	1.1	EPA 6010D		10-30-25	

Client ID:	MW-9D					
Laboratory ID:	10-332-08					
Calcium	32	1.0	EPA 6010D		10-30-25	
Iron	ND	0.050	EPA 6010D		10-30-25	
Magnesium	21	1.0	EPA 6010D		10-30-25	
Manganese	ND	0.010	EPA 6010D		10-30-25	
Potassium	2.6	1.0	EPA 6010D		10-30-25	
Sodium	27	1.0	EPA 6010D		10-30-25	



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**DISSOLVED METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10D					
Laboratory ID:	10-332-09					
Calcium	18	1.0	EPA 6010D		10-30-25	
Iron	ND	0.050	EPA 6010D		10-30-25	
Magnesium	11	1.0	EPA 6010D		10-30-25	
Manganese	ND	0.010	EPA 6010D		10-30-25	
Potassium	2.4	1.0	EPA 6010D		10-30-25	
Sodium	12	1.0	EPA 6010D		10-30-25	



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**DISSOLVED METALS
 EPA 6010D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1030D1					
Calcium	ND	1.1	EPA 6010D		10-30-25	
Iron	ND	0.056	EPA 6010D		10-30-25	
Magnesium	ND	1.1	EPA 6010D		10-30-25	
Manganese	ND	0.011	EPA 6010D		10-30-25	
Potassium	ND	1.1	EPA 6010D		10-30-25	
Sodium	ND	1.1	EPA 6010D		10-30-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-332-04							
	ORIG	DUP						
Calcium	20.5	20.6	NA	NA	NA	NA	1	20
Iron	ND	ND	NA	NA	NA	NA	NA	20
Magnesium	15.2	15.3	NA	NA	NA	NA	1	20
Manganese	0.129	0.126	NA	NA	NA	NA	2	20
Potassium	3.99	4.06	NA	NA	NA	NA	2	20
Sodium	13.7	13.8	NA	NA	NA	NA	1	20

MATRIX SPIKES

Laboratory ID:	10-332-04									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	42.9	43.5	22.2	22.2	20.5	101	104	75-125	1	20
Iron	24.4	25.4	22.2	22.2	ND	110	114	75-125	4	20
Magnesium	38.6	39.5	22.2	22.2	15.2	106	110	75-125	2	20
Manganese	0.726	0.769	0.556	0.556	0.129	107	115	75-125	6	20
Potassium	28.7	29.5	22.2	22.2	3.99	111	115	75-125	3	20
Sodium	37.5	38.2	22.2	22.2	13.7	107	110	75-125	2	20

SPIKE BLANK

Laboratory ID:	SB1030D1									
Calcium	22.4		22.2		N/A		101		80-120	
Iron	23.0		22.2		N/A		103		80-120	
Magnesium	23.1		22.2		N/A		104		80-120	
Manganese	0.545		0.556		N/A		98		80-120	
Potassium	22.9		22.2		N/A		103		80-120	
Sodium	22.8		22.2		N/A		103		80-120	



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**TOTAL METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-332-01					
Iron	0.65	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	11	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	0.33	0.010	EPA 6010D	10-28-25	10-30-25	

Client ID:	MW-5S					
Laboratory ID:	10-332-02					
Iron	0.13	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	21	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	0.027	0.010	EPA 6010D	10-28-25	10-30-25	

Client ID:	MW-6S					
Laboratory ID:	10-332-03					
Iron	ND	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	36	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	ND	0.010	EPA 6010D	10-28-25	10-30-25	

Client ID:	MW-11S					
Laboratory ID:	10-332-04					
Iron	ND	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	15	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	0.13	0.010	EPA 6010D	10-28-25	10-30-25	

Client ID:	MW-13S					
Laboratory ID:	10-332-05					
Iron	ND	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	15	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	0.14	0.010	EPA 6010D	10-28-25	10-30-25	

Client ID:	MW-7D					
Laboratory ID:	10-332-06					
Iron	ND	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	11	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	0.031	0.010	EPA 6010D	10-28-25	10-30-25	



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**TOTAL METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	10-332-07					
Iron	0.11	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	20	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	0.035	0.010	EPA 6010D	10-28-25	10-30-25	

Client ID:	MW-9D					
Laboratory ID:	10-332-08					
Iron	ND	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	23	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	ND	0.010	EPA 6010D	10-28-25	10-30-25	

Client ID:	MW-10D					
Laboratory ID:	10-332-09					
Iron	ND	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	12	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	ND	0.010	EPA 6010D	10-28-25	10-30-25	



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**TOTAL METALS
 EPA 6010D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1028WH3					
Iron	ND	0.050	EPA 6010D	10-28-25	10-30-25	
Magnesium	ND	1.0	EPA 6010D	10-28-25	10-30-25	
Manganese	ND	0.010	EPA 6010D	10-28-25	10-30-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-332-04							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	NA	20
Magnesium	15.2	15.3	NA	NA	NA	NA	1	20
Manganese	0.130	0.130	NA	NA	NA	NA	0	20

MATRIX SPIKES

Laboratory ID:	10-332-04									
	MS	MSD	MS	MSD		MS	MSD			
Iron	21.4	21.3	20.0	20.0	ND	107	106	75-125	0	20
Magnesium	34.8	35.1	20.0	20.0	15.2	98	99	75-125	1	20
Manganese	0.656	0.666	0.500	0.500	0.130	105	107	75-125	1	20

SPIKE BLANK

Laboratory ID:	SB1028WH3									
Iron	21.1		20.0		N/A	105		80-120		
Magnesium	20.4		20.0		N/A	102		80-120		
Manganese	0.525		0.500		N/A	105		80-120		





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Environmental Inc.
 14645 1st Ave. S. • Excelsior, MN 55120
 Phone: (612) 832-3811 • Fax: (612) 832-3111

Chain of Custody

Company: **Parametrix**

Project Number: **553-8472-009**

Project Name: **Rocky Top Environmental LPL**

Project Manager: **Laura Lee, Mike Brady**

Sampled by: _____

Temperature Required (for working days)
 Same Day 1 Day
 2 Days 3 Days
 Shortest (7 Days) (7th day/week 5 days)
 _____ (other)

Laboratory Number: **10-332**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Laboratory Parameters											
						Alkalinity, Bicarbonate, TDS	Chloride, Sulfate	Ammonia	TOC	Dissolved Metals (Fe, Mn, Mg, Ca, K, Na)	Total Metals (Fe, Mn, kg)	MUMBO					
1	MW-15	10/22/05	1050	Water	6	X	X	X	X	X	X						
2	MW-SS	10/21/05	1110	Water	6	X	X	X	X	X	X						
3	MW-SS	10/21/05	1440	Water	6	X	X	X	X	X	X						
4	MW-115	10/21/05	0900	Water	6	X	X	X	X	X	X	X					
5	MW-138	10/25/05	0800	Water	6	X	X	X	X	X	X						
6	MW-TD	10/21/05	1235	Water	6	X	X	X	X	X	X						
7	MW-RD	10/20/05	1805	Water	6	X	X	X	X	X	X						
8	MW-RD	10/21/05	1105	Water	6	X	X	X	X	X	X						
9	MW-IGD	10/20/05	1545	Water	6	X	X	X	X	X	X						

Signature: *Michael A. Spurr*

Company: **ES&S**

Date: **10/22/05** Time: **1653**

Date: **10/22/05** Time: **1053**

Comments/Special Instructions:
 Additional MSNISO volumes taken @ MW-115

Reviewed/Date: _____



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 30, 2025

Laura Lee
Parametrix, Inc.
719 2nd Avenue, Suite 200
Seattle, WA 98104

Re: Analytical Data for Project 553-8472-009
Laboratory Reference No. 2510-333

Dear Laura:

Enclosed are the analytical results and associated quality control data for samples submitted on October 22, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 30, 2025
Samples Submitted: October 22, 2025
Laboratory Reference: 2510-333
Project: 553-8472-009

Case Narrative

Samples were collected on October 21 and 22, 2025 and received by the laboratory on October 22, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-333-01					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
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VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-333-01					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-117</i>				



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5S					
Laboratory ID:	10-333-02					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5S					
Laboratory ID:	10-333-02					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-117</i>				



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6S					
Laboratory ID:	10-333-03					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



Date of Report: October 30, 2025
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 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6S					
Laboratory ID:	10-333-03					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11S					
Laboratory ID:	10-333-04					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11S					
Laboratory ID:	10-333-04					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13S					
Laboratory ID:	10-333-05					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13S					
Laboratory ID:	10-333-05					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7D					
Laboratory ID:	10-333-06					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7D					
Laboratory ID:	10-333-06					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	10-333-07					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	10-333-07					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9D					
Laboratory ID:	10-333-08					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9D					
Laboratory ID:	10-333-08					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10D					
Laboratory ID:	10-333-09					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10D					
Laboratory ID:	10-333-09					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	10-333-10					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	10-333-10					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1024W1					
Chloromethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Bromomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Chloroethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Acetone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Iodomethane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Carbon Disulfide	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methylene Chloride	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Acrylonitrile	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Vinyl Acetate	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Butanone	ND	5.0	EPA 8260D	10-24-25	10-24-25	
Bromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Chloroform	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Benzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Trichloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Dibromomethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromodichloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-24-25	10-24-25	
Toluene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
2-Hexanone	ND	2.0	EPA 8260D	10-24-25	10-24-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1024W1					
Dibromochloromethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	10-24-25	10-24-25	
Chlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Ethylbenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
m,p-Xylene	ND	0.40	EPA 8260D	10-24-25	10-24-25	
o-Xylene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Styrene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
Bromoform	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-24-25	10-24-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-24-25	10-24-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-24-25	10-24-25	
Naphthalene	ND	1.0	EPA 8260D	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	10-333-04									
	MS	MSD	MS	MSD		MS	MSD			
Chloromethane	10.6	10.5	10.0	10.0	ND	106	105	49-136	1	27
Vinyl Chloride	10.9	10.8	10.0	10.0	ND	109	108	69-126	1	16
Bromomethane	9.99	10.5	10.0	10.0	ND	100	105	32-158	5	24
Chloroethane	10.4	10.6	10.0	10.0	ND	104	106	62-125	2	14
Trichlorofluoromethane	11.0	11.2	10.0	10.0	ND	110	112	80-128	2	16
1,1-Dichloroethene	11.0	11.2	10.0	10.0	ND	110	112	73-125	2	15
Acetone	10.1	12.6	10.0	10.0	ND	101	126	37-164	22	29
Iodomethane	7.99	7.62	10.0	10.0	ND	80	76	35-141	5	25
Carbon Disulfide	8.47	8.16	10.0	10.0	ND	85	82	55-127	4	17
Methylene Chloride	10.7	10.8	10.0	10.0	ND	107	108	63-118	1	16
(trans) 1,2-Dichloroethene	11.4	11.5	10.0	10.0	ND	114	115	70-127	1	16
1,1-Dichloroethane	11.0	11.1	10.0	10.0	ND	110	111	71-126	1	15
Vinyl Acetate	10.4	10.6	10.0	10.0	ND	104	106	60-140	2	17
(cis) 1,2-Dichloroethene	11.7	11.8	10.0	10.0	ND	117	118	71-130	1	16
2-Butanone	11.3	11.3	10.0	10.0	ND	113	113	56-143	0	19
Bromochloromethane	11.4	11.5	10.0	10.0	ND	114	115	68-133	1	17
Chloroform	11.1	11.3	10.0	10.0	ND	111	113	68-127	2	16
1,1,1-Trichloroethane	11.1	11.4	10.0	10.0	ND	111	114	74-127	3	17
Carbon Tetrachloride	11.4	11.6	10.0	10.0	ND	114	116	72-134	2	18
Benzene	11.0	11.1	10.0	10.0	ND	110	111	69-129	1	16
1,2-Dichloroethane	11.2	11.4	10.0	10.0	ND	112	114	71-134	2	17
Trichloroethene	11.1	11.1	10.0	10.0	ND	111	111	74-134	0	12
1,2-Dichloropropane	11.1	10.9	10.0	10.0	ND	111	109	74-130	2	17
Dibromomethane	11.3	11.0	10.0	10.0	ND	113	110	74-140	3	16
Bromodichloromethane	11.5	11.3	10.0	10.0	ND	115	113	77-137	2	17
(cis) 1,3-Dichloropropene	11.3	11.1	10.0	10.0	ND	113	111	73-137	2	17
Methyl Isobutyl Ketone	11.8	12.2	10.0	10.0	ND	118	122	61-146	3	19
Toluene	10.6	10.5	10.0	10.0	ND	106	105	71-128	1	19
(trans) 1,3-Dichloropropene	10.9	11.0	10.0	10.0	ND	109	110	70-136	1	18
1,1,2-Trichloroethane	10.3	10.5	10.0	10.0	ND	103	105	68-146	2	16
Tetrachloroethene	10.6	10.7	10.0	10.0	ND	106	107	78-132	1	22
2-Hexanone	11.0	11.1	10.0	10.0	ND	110	111	57-154	1	25
Dibromochloromethane	11.0	11.0	10.0	10.0	ND	110	110	51-160	0	27



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
 page 2 of 2

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	Limit			
MATRIX SPIKES											
Laboratory ID:	10-333-04										
	MS	MSD	MS	MSD		MS	MSD				
1,2-Dibromoethane	10.7	10.8	10.0	10.0	ND	107	108	74-133	1	16	
Chlorobenzene	10.8	10.8	10.0	10.0	ND	108	108	83-121	0	16	
1,1,1,2-Tetrachloroethane	11.0	11.1	10.0	10.0	ND	110	111	82-129	1	17	
Ethylbenzene	10.7	10.7	10.0	10.0	ND	107	107	84-123	0	17	
m,p-Xylene	21.4	21.6	20.0	20.0	ND	107	108	82-125	1	17	
o-Xylene	10.8	10.8	10.0	10.0	ND	108	108	83-123	0	17	
Styrene	10.8	10.9	10.0	10.0	ND	108	109	83-128	1	19	
Bromoform	9.46	9.56	10.0	10.0	ND	95	96	69-135	1	18	
1,1,2,2-Tetrachloroethane	10.3	10.2	10.0	10.0	ND	103	102	75-138	1	17	
1,2,3-Trichloropropane	10.5	10.4	10.0	10.0	ND	105	104	64-131	1	18	
1,4-Dichlorobenzene	10.6	10.6	10.0	10.0	ND	106	106	79-127	0	15	
1,2-Dichlorobenzene	10.4	10.4	10.0	10.0	ND	104	104	80-130	0	16	
1,2-Dibromo-3-chloropropane	9.43	9.38	10.0	10.0	ND	94	94	68-139	1	19	
Naphthalene	8.68	9.28	10.0	10.0	ND	87	93	67-142	7	23	
<i>Surrogate:</i>											
Dibromofluoromethane						101	103	68-133			
Toluene-d8						102	100	79-123			
4-Bromofluorobenzene						102	101	78-117			



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-333-01					
Gasoline	ND	100	NWTPH-Gx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	95	62-122				
Client ID:	MW-5S					
Laboratory ID:	10-333-02					
Gasoline	ND	100	NWTPH-Gx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	96	62-122				
Client ID:	MW-6S					
Laboratory ID:	10-333-03					
Gasoline	ND	100	NWTPH-Gx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	95	62-122				
Client ID:	MW-11S					
Laboratory ID:	10-333-04					
Gasoline	ND	100	NWTPH-Gx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	96	62-122				
Client ID:	MW-13S					
Laboratory ID:	10-333-05					
Gasoline	ND	100	NWTPH-Gx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	95	62-122				
Client ID:	Trip Blanks					
Laboratory ID:	10-333-10					
Gasoline	ND	100	NWTPH-Gx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	96	62-122				



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1024W2					
Gasoline	ND	100	NWTPH-Gx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	97	62-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-333-04							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
Fluorobenzene				96	91	62-122		

MATRIX SPIKES

Laboratory ID:	10-333-04									
	MS	MSD	MS	MSD		MS	MSD			
o-Xylene	4800	4810	5000	5000	ND	96	96	75-125	0	15
<i>Surrogate:</i>										
Fluorobenzene						109	104	62-122		



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	10-333-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	10-24-25	10-24-25	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	MW-5S					
Laboratory ID:	10-333-02					
Diesel Range Organics	ND	0.20	NWTPH-Dx	10-24-25	10-24-25	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Client ID:	MW-6S					
Laboratory ID:	10-333-03					
Diesel Range Organics	ND	0.20	NWTPH-Dx	10-24-25	10-24-25	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				

Client ID:	MW-11S					
Laboratory ID:	10-333-04					
Diesel Range Organics	ND	0.21	NWTPH-Dx	10-24-25	10-24-25	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	MW-13S					
Laboratory ID:	10-333-05					
Diesel Range Organics	ND	0.21	NWTPH-Dx	10-24-25	10-24-25	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				



Date of Report: October 30, 2025
 Samples Submitted: October 22, 2025
 Laboratory Reference: 2510-333
 Project: 553-8472-009

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1024W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	10-24-25	10-24-25	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	10-24-25	10-24-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-333-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	40
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	40
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				86	87	50-150		

MATRIX SPIKES

Laboratory ID:	10-333-04									
	MS	MSD	MS	MSD		MS	MSD			
Diesel Range	0.467	0.489	0.500	0.500	ND	93	98	54-123	5	40
<i>Surrogate:</i>										
<i>o-Terphenyl</i>						85	87	50-150		





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Analytical Results Report For:

OnSite Environmental, Inc.

Project:

Parametrix DTG Yakima

Anatek Work Order:

YFJ0239

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: OnSite Environmental, Inc.
Address: 14648 NE. 95th St.
Redmond, WA 98052
Attn: David Baumeister

Work Order: YFJ0239
Project: Parametrix DTG Yakima
Reported: 10/23/2025 11:03

Analytical Results Report

Sample Location: MW-5S
Lab/Sample Number: YFJ0239-01 **Collect Date:** 10/21/25 11:10
Date Received: 10/21/25 16:52 **Collected By:** Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	ND	mg/L	0.200	10/23/25 9:26	DRA	Hach 10206	

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Sample Location: MW-6S
Lab/Sample Number: YFJ0239-02 Collect Date: 10/21/25 14:40
Date Received: 10/21/25 16:52 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	16.0	mg/L	2.00	10/23/25 10:11	DRA	Hach 10206	

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Sample Location: MW-7D
Lab/Sample Number: YFJ0239-03 Collect Date: 10/21/25 12:35
Date Received: 10/21/25 16:52 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	ND	mg/L	0.200	10/23/25 9:26	DRA	Hach 10206	

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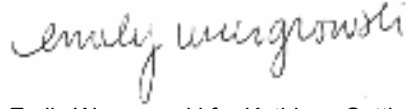
Sample Location: MW-9D
Lab/Sample Number: YFJ0239-04 Collect Date: 10/21/25 16:05
Date Received: 10/21/25 16:52 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	1.60	mg/L	0.200	10/23/25 9:26	DRA	Hach 10206	

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Authorized Signature,



Emily Wengrowski for Kathleen Sattler, Lab Manager

PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

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The results reported related only to the samples indicated.

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFJ1192 - Y Hach Vial										
Blank (BFJ1192-BLK1)										
Nitrate as N	ND		0.200	mg/L						
					Prepared: 10/23/25 09:11- Analyzed: 10/23/25 09:26					
LCS (BFJ1192-BS1)										
Nitrate as N	5.10		0.200	mg/L	5.00		102	90-110		
					Prepared: 10/23/25 09:11- Analyzed: 10/23/25 09:26					
Matrix Spike (BFJ1192-MS1)										
			Source: YFJ0250-02							
Nitrate as N	5.44		0.400	mg/L	5.00	0.881	91.2	80-120		
					Prepared: 10/23/25 09:11- Analyzed: 10/23/25 09:26					
Matrix Spike Dup (BFJ1192-MSD1)										
			Source: YFJ0250-02							
Nitrate as N	5.52		0.400	mg/L	5.00	0.881	92.8	80-120	1.46	20
					Prepared: 10/23/25 09:11- Analyzed: 10/23/25 09:26					



Chain of Custody Record

An
1282 Alturas Driv
504 E Sprague Ste 1

YFJ0239



Due: 11/05/25

Company Name: OnSite Environmental (Parametrix)
Address: 14648 NE 95th Street
City: Redmond State: WA Zip: 98052
Phone: 425-883-3881
Email Address(es): dbaumeister@onsite-env.com

Project Manager: David Baumeister
Project Name & #: Parametrix DTG Yakima
Purchase Order #:
Sampler Name & Phone:

Normal
 Next Day
 2nd Day
 Other
*All rush order requests must have prior approval

Lab ID		Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Parameter	List Analyses Requested		Note Special Instructions/Comments
MW-1S		Water		Water	1		Nitrate			Extra MS/MSD volume @ MW-11S
MW-2S		Water		Water	1		X			
MW-3S		Water		Water	1		X			
MW-4S		Water		Water	1		X			
MW-5S		Water	11/05	Water	1		X			
MW-6S		Water	11/05	Water	1		X			
MW-11S		Water		Water	2		X			
MW-13S		Water		Water	1		X			
MW-7D		Water	12/25	Water	1		X			
MW-8D		Water		Water	1		X			
MW-9D		Water	11/05	Water	1		X			
MW-10D		Water	11/05	Water	1		X			
Printed Name		Signature		Company		Date		Time		
Relinquished by: <i>Wesley Anderson</i>		Signature: <i>David Baumeister</i>		Parametrix		11/21/25		16:52		
Received by:		Signature: <i>Wesley Anderson</i>		Parametrix		11/21/25		16:53		
Relinquished by:		Signature:								
Received by:		Signature:								
Relinquished by:		Signature:								
Received by:		Signature:								

Inspection Checklist
 Received Intact? Y N
 Labels & Chains Agree? Y N
 Containers Sealed? Y N
 No VOC Head Space? Y N
 Cooler? Y N
 Ice/ice Packs Present? Y N

Temperature (°C): 10.5 - 0 | 10.7 - 6 | 10.9 | 16
 Number of Containers: _____
 Shipped Via: _____
 Preservative: _____
 Date & Time: _____
 Inspected By: _____

Specimens submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.



YFJ0239



Due: 11/05/25

S

irm

Cooler Temperature	
Read (°C):	10.5
Corrected (°C):	10.7
Thermometer Used:	
DIG-16	

Client Name: Onsite

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 1 Type of Ice: Wet Ice Ice Packs Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts Paper None Other: _____

Samples Received Intact?	<u>Yes</u>	No	N/A
Chain of Custody Present/Complete?	<u>Yes</u>	No	N/A
Labels and Chains Agree?	<u>Yes</u>	No	N/A
Samples Received Within Hold Time?	<u>Yes</u>	No	N/A
Correct Containers Received?	<u>Yes</u>	No	N/A
Anatek Bottles Used?	Yes	<u>No</u>	Unknown
Total Number of Sample Bottles Received:	<u>4</u>		
Samples Properly Preserved?	Yes	No	<u>N/A</u>
<i>If No, record preservation and pH-after details</i>			
VOC Vials Free of Headspace (<8mm)?	Yes	No	<u>N/A</u>
VOC Trip Blanks Present?	Yes	No	<u>N/A</u>

Comments:

Initial pH: <2 or	pH Paper ID:

Record specific containers with preservatives (and lot numbers):

Client Cont x 4

Notes, comments, etc.

Received/Inspected By: [Signature] Date/Time: 10/21/25 1652



Analytical Results Report For:

OnSite Environmental, Inc.

Project:

Parametrix DTG Yakima

Anatek Work Order:

YFJ0250

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: OnSite Environmental, Inc.
Address: 14648 NE. 95th St.
Redmond, WA 98052
Attn: David Baumeister

Work Order: YFJ0250
Project: Parametrix DTG Yakima
Reported: 10/23/2025 11:12

Analytical Results Report

Sample Location: MW-1S
Lab/Sample Number: YFJ0250-01 **Collect Date:** 10/22/25 10:50
Date Received: 10/22/25 13:40 **Collected By:** Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	0.600	mg/L	0.200	10/23/25 9:26	DRA	Hach 10206	

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Sample Location: MW-11S
Lab/Sample Number: YFJ0250-02 Collect Date: 10/22/25 09:00
Date Received: 10/22/25 13:40 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	0.881	mg/L	0.200	10/23/25 9:26	DRA	Hach 10206	

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Sample Location: MW-13S
Lab/Sample Number: YFJ0250-03 Collect Date: 10/22/25 08:00
Date Received: 10/22/25 13:40 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	0.908	mg/L	0.200	10/23/25 9:26	DRA	Hach 10206	

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Sample Location: MW-8D
Lab/Sample Number: YFJ0250-04 Collect Date: 10/22/25 12:05
Date Received: 10/22/25 13:40 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	1.38	mg/L	0.200	10/23/25 9:26	DRA	Hach 10206	

Anatek Labs, Inc.

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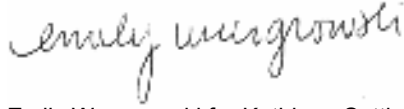
Sample Location: MW-10D
Lab/Sample Number: YFJ0250-05 Collect Date: 10/22/25 13:05
Date Received: 10/22/25 13:40 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	1.43	mg/L	0.200	10/23/25 9:26	DRA	Hach 10206	

Anatek Labs, Inc.

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Authorized Signature,



Emily Wengrowski for Kathleen Sattler, Lab Manager

PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

This report shall not be reproduced except in full, without the written approval of the laboratory
The results reported related only to the samples indicated.

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFJ1192 - Y Hach Vial										
Blank (BFJ1192-BLK1)										
Nitrate as N	ND		0.200	mg/L						
Prepared: 10/23/25 09:11- Analyzed: 10/23/25 09:26										
LCS (BFJ1192-BS1)										
Nitrate as N	5.10		0.200	mg/L	5.00		102	90-110		
Prepared: 10/23/25 09:11- Analyzed: 10/23/25 09:26										
Matrix Spike (BFJ1192-MS1)										
Nitrate as N	5.44		0.400	mg/L	5.00	0.881	91.2	80-120		
Source: YFJ0250-02 Prepared: 10/23/25 09:11- Analyzed: 10/23/25 09:26										
Matrix Spike Dup (BFJ1192-MSD1)										
Nitrate as N	5.52		0.400	mg/L	5.00	0.881	92.8	80-120	1.46	20
Source: YFJ0250-02 Prepared: 10/23/25 09:11- Analyzed: 10/23/25 09:26										



Chain of Custody Record

YFJ0250



Due: 11/05/25

Ana
1282 Alturas Drive,
504 E Sprague Ste D,

www.anateklabs.com/pcr-ng-ists
Phone
Email
*All rush order requests must have prior approval

Company Name: OnSite Environmental (Parametrix)
Address: 14648 NE 95th Street
City: Redmond State: WA Zip: 98052
Phone: 425-883-3881
Email Address(es): dbaumeister@onsite-env.com

Project Manager: David Baumeister
Project Name & #: Parametrix DTG Yakima
Purchase Order #:
Sampler Name & Phone:

Lab ID		Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Analysis	List Analyses Requested	Note Special Instructions/Comments
	MW-1S		10/21/25 0500	Water	1		Nitrate		Extra MS/MSD volume @ MW-11S
	MW-2S			Water	1				
	MW-3S			Water	1				
	MW-4S			Water	1				
	MW-5S			Water	1				
	MW-6S			Water	1				
	MW-11S		10/21/25 0500	Water	2				
	MW-13S		10/21/25 0500	Water	1				
	MW-7D			Water	1				
	MW-8D		10/21/25 1205	Water	1				
	MW-9D			Water	1				
	MW-10D		10/21/25 1105	Water	1				

Inspection Checklist	
Received Intact?	Y
Labels & Chains Agree?	Y
Containers Sealed?	Y
No VOC Head Space?	Y
Cooler?	Y
Ice/ice Packs Present?	Y

Temperature (°C): 6.0-0/10.2-6.8/16
Number of Containers: _____
Shipped Via: _____
Preservative: _____

Date & Time: _____
Inspected By: _____

Relinquished by	Printed Name	Signature	Company	Date	Time
	David Baumeister	<i>[Signature]</i>	Parametrix	10/21/25	1340
Received by	John Anderson	<i>[Signature]</i>	Parametrix	10/21/25	1340
Relinquished by					
Received by					
Relinquished by					
Received by					

Samplers submitted to Anatek Labs may be analyzed/lost to other accredited labs if necessary. This message serves as notice of this possibility. Substituted analyses will be clearly noted on the analytical report.



Samp

YFJ0250



Due: 11/05/25

Cooler Temperature	
Read (°C):	<u>6.0</u>
Corrected (°C):	<u>6.2</u>
Thermometer Used:	
DIG-18	

Client Name: Onsite

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No all Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 1 Type of Ice: Wet Ice Ice Packs Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts Paper None Other: _____

Samples Received Intact?	<u>Yes</u>	No	N/A
Chain of Custody Present/Complete?	<u>Yes</u>	No	N/A
Labels and Chains Agree?	<u>Yes</u>	No	N/A
Samples Received Within Hold Time?	<u>Yes</u>	No	N/A
Correct Containers Received?	<u>Yes</u>	No	N/A
Anatek Bottles Used?	Yes	<u>No</u>	Unknown
Total Number of Sample Bottles Received:			
Samples Properly Preserved?	Yes	No	<u>N/A</u>
<i>If No, record preservation and pH-after details</i>			
VOC Vials Free of Headspace (<6mm)?	Yes	No	<u>N/A</u>
VOC Trip Blanks Present?	Yes	No	<u>N/A</u>

Comments:	
Initial pH: <2 or	pH Paper ID:

Record specific containers with preservatives (and lot numbers):

Client Cont x 4

Notes, comments, etc.

Does want sample 115 - client accidentally crossed out

Received/Inspected By: Anderson Date/Time: 10/22/25 1340



M OnSite
Environmental Inc.
 1644 NE 87th Street • Portland, VA 22003
 Phone: (410) 983-9911 • www.monsite.com

Chain of Custody

Laboratory Number: **10-333**

Company: **Parametrix**
 Project Number: **553-8472-009**
 Project Name: **Rocky Top Environmental LPL**
 Project Manager: **Laura Lee, Mike Brady**
 Sampled by: _____

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (1PH analysis 5 Days)
 _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Laboratory Parameters															
						VOCs (2000 - IAC 173-BF Appendix I)	SVOCs (2000 - IAC 173-BF Appendix I)	WWTP-12	WWTP-13	MSMDO	Nitrate										
1	MM-1S	10/21/05	105D	Water	7	X	X	X	X												
2	MM-2S	10/21/05	1110	Water	7	X	X	X	X												
3	MM-3S	10/21/05	1140	Water	7	X	X	X	X												
4	MM-11S	10/21/05	1300	Water	14	X	X	X	X												
5	MM-13S	10/21/05	0850	Water	7	X	X	X	X												
6	MM-7D	10/21/05	1235	Water	3	X															
7	MM-20	10/22/05	0805	Water	3	X															
8	MM-20	10/21/05	1505	Water	3	X															
9	MM-10D	10/21/05	1305	Water	3	X															
10	Trip Blanks			Water	4	X	X														

Signature: _____
 Company: _____
 Date: 10/21/05
 Time: 1645
 Parameters: OSE
 Comments/Special Instructions:
 Additional MSMDO volumes taken @ MM-11S
 *Nitrate delivered directly to Analytik Labz, Inc. in Yelm, WA under a separate COC. Analytik is subcontracted through OnSite.
 Date Package Label (I) Label (V) Electronic Data Definition (EDD)
 Chain of Custody with final report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 12, 2025

Laura Lee
Parametrix, Inc.
719 2nd Avenue, Suite 200
Seattle, WA 98104

Re: Analytical Data for Project 553-8472-009
Laboratory Reference No. 2512-055

Dear Laura:

Enclosed are the analytical results and associated quality control data for samples submitted on December 4, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 12, 2025
Samples Submitted: December 4, 2025
Laboratory Reference: 2512-055
Project: 553-8472-009

Case Narrative

Samples were collected on December 2, 3 and 4, 2025 and received by the laboratory on December 4, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

The percent recovery for Chloromethane is outside the control limits in the Spike Blank. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

The percent recovery for Carbon Disulfide is outside the control limits in the Matrix Spike. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: December 12, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-055
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-055-01					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



Date of Report: December 12, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-055
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-055-01					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				



Date of Report: December 12, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-055
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2S					
Laboratory ID:	12-055-02					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



Date of Report: December 12, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-055
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2S					
Laboratory ID:	12-055-02					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3S					
Laboratory ID:	12-055-03					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3S					
Laboratory ID:	12-055-03					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4S					
Laboratory ID:	12-055-04					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4S					
Laboratory ID:	12-055-04					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5S					
Laboratory ID:	12-055-05					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5S					
Laboratory ID:	12-055-05					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6S					
Laboratory ID:	12-055-06					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6S					
Laboratory ID:	12-055-06					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11S					
Laboratory ID:	12-055-07					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11S					
Laboratory ID:	12-055-07					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13S					
Laboratory ID:	12-055-08					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13S					
Laboratory ID:	12-055-08					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7D					
Laboratory ID:	12-055-09					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7D					
Laboratory ID:	12-055-09					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	12-055-10					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	12-055-10					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9D					
Laboratory ID:	12-055-11					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9D					
Laboratory ID:	12-055-11					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10D					
Laboratory ID:	12-055-12					
Chloromethane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-8-25	12-8-25	
Bromomethane	ND	1.5	EPA 8260D	12-8-25	12-8-25	
Chloroethane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Acetone	ND	5.0	EPA 8260D	12-8-25	12-8-25	
Iodomethane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-8-25	12-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-8-25	12-8-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
2-Butanone	ND	5.0	EPA 8260D	12-8-25	12-8-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Chloroform	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Benzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Trichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Dibromomethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-8-25	12-8-25	
Toluene	ND	1.0	EPA 8260D	12-8-25	12-8-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10D					
Laboratory ID:	12-055-12					
2-Hexanone	ND	2.0	EPA 8260D	12-8-25	12-8-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-8-25	12-8-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-8-25	12-8-25	
o-Xylene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Styrene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Bromoform	ND	1.0	EPA 8260D	12-8-25	12-8-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-8-25	12-8-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Naphthalene	ND	1.0	EPA 8260D	12-8-25	12-8-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	12-055-13					
Chloromethane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-8-25	12-8-25	
Bromomethane	ND	1.5	EPA 8260D	12-8-25	12-8-25	
Chloroethane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Acetone	ND	5.0	EPA 8260D	12-8-25	12-8-25	
Iodomethane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-8-25	12-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-8-25	12-8-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
2-Butanone	ND	5.0	EPA 8260D	12-8-25	12-8-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Chloroform	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Benzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Trichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Dibromomethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-8-25	12-8-25	
Toluene	ND	1.0	EPA 8260D	12-8-25	12-8-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	12-055-13					
2-Hexanone	ND	2.0	EPA 8260D	12-8-25	12-8-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-8-25	12-8-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-8-25	12-8-25	
o-Xylene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Styrene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Bromoform	ND	1.0	EPA 8260D	12-8-25	12-8-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-8-25	12-8-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Naphthalene	ND	1.0	EPA 8260D	12-8-25	12-8-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-117</i>				



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QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Chloromethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Bromomethane	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Chloroethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Acetone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Iodomethane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
2-Butanone	ND	5.0	EPA 8260D	12-5-25	12-5-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Chloroform	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Benzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Trichloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Dibromomethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Toluene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-5-25	12-5-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
2-Hexanone	ND	2.0	EPA 8260D	12-5-25	12-5-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-5-25	12-5-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-5-25	12-5-25	
o-Xylene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Styrene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
Bromoform	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-5-25	12-5-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-5-25	12-5-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-5-25	12-5-25	
Naphthalene	ND	1.0	EPA 8260D	12-5-25	12-5-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-117</i>				



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QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Chloromethane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	12-8-25	12-8-25	
Bromomethane	ND	1.5	EPA 8260D	12-8-25	12-8-25	
Chloroethane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Acetone	ND	5.0	EPA 8260D	12-8-25	12-8-25	
Iodomethane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Carbon Disulfide	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Methylene Chloride	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Acrylonitrile	ND	1.0	EPA 8260D	12-8-25	12-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Vinyl Acetate	ND	1.0	EPA 8260D	12-8-25	12-8-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
2-Butanone	ND	5.0	EPA 8260D	12-8-25	12-8-25	
Bromochloromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Chloroform	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Benzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Trichloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Dibromomethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Bromodichloromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-8-25	12-8-25	
Toluene	ND	1.0	EPA 8260D	12-8-25	12-8-25	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	12-8-25	12-8-25	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
2-Hexanone	ND	2.0	EPA 8260D	12-8-25	12-8-25	
Dibromochloromethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dibromoethane (SIM)	ND	0.020	EPA 8260D/SIM	12-8-25	12-8-25	
Chlorobenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Ethylbenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
m,p-Xylene	ND	0.40	EPA 8260D	12-8-25	12-8-25	
o-Xylene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Styrene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
Bromoform	ND	1.0	EPA 8260D	12-8-25	12-8-25	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-8-25	12-8-25	
(trans) 1,4-Dichloro-2-butene	ND	1.0	EPA 8260D	12-8-25	12-8-25	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-25	12-8-25	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-8-25	12-8-25	
Naphthalene	ND	1.0	EPA 8260D	12-8-25	12-8-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	12-055-06										
	MS	MSD	MS	MSD		MS	MSD				
Chloromethane	12.3	11.6	10.0	10.0	ND	123	116	49-136	6	27	
Vinyl Chloride	10.3	10.1	10.0	10.0	ND	103	101	69-126	2	16	
Bromomethane	5.52	6.04	10.0	10.0	ND	55	60	32-158	9	24	
Chloroethane	10.2	9.79	10.0	10.0	ND	102	98	62-125	4	14	
Trichlorofluoromethane	9.89	9.53	10.0	10.0	ND	99	95	80-128	4	16	
1,1-Dichloroethene	11.3	11.2	10.0	10.0	ND	113	112	73-125	1	15	
Acetone	9.08	9.15	10.0	10.0	ND	91	92	37-164	1	29	
Iodomethane	11.7	10.8	10.0	10.0	ND	117	108	35-141	8	25	
Carbon Disulfide	13.1	11.4	10.0	10.0	ND	131	114	55-127	14	17	I
Methylene Chloride	10.2	9.61	10.0	10.0	ND	102	96	63-118	6	16	
(trans) 1,2-Dichloroethene	11.1	10.7	10.0	10.0	ND	111	107	70-127	4	16	
1,1-Dichloroethane	11.0	10.8	10.0	10.0	ND	110	108	71-126	2	15	
Vinyl Acetate	12.0	10.6	10.0	10.0	ND	120	106	60-140	12	17	
(cis) 1,2-Dichloroethene	11.1	10.9	10.0	10.0	ND	111	109	71-130	2	16	
2-Butanone	11.1	10.9	10.0	10.0	ND	111	109	56-143	2	19	
Bromochloromethane	11.2	10.8	10.0	10.0	ND	112	108	68-133	4	17	
Chloroform	10.6	10.5	10.0	10.0	ND	106	105	68-127	1	16	
1,1,1-Trichloroethane	10.9	10.6	10.0	10.0	ND	109	106	74-127	3	17	
Carbon Tetrachloride	11.1	10.9	10.0	10.0	ND	111	109	72-134	2	18	
Benzene	11.0	10.7	10.0	10.0	ND	110	107	69-129	3	16	
1,2-Dichloroethane	10.9	10.7	10.0	10.0	ND	109	107	71-134	2	17	
Trichloroethene	11.2	10.7	10.0	10.0	ND	112	107	74-134	5	12	
1,2-Dichloropropane	10.8	10.6	10.0	10.0	ND	108	106	74-130	2	17	
Dibromomethane	11.9	11.4	10.0	10.0	ND	119	114	74-140	4	16	
Bromodichloromethane	11.3	11.1	10.0	10.0	ND	113	111	77-137	2	17	
(cis) 1,3-Dichloropropene	12.4	11.8	10.0	10.0	ND	124	118	73-137	5	17	
Methyl Isobutyl Ketone	10.4	9.54	10.0	10.0	ND	104	95	61-146	9	19	
Toluene	10.5	10.1	10.0	10.0	ND	105	101	71-128	4	19	
(trans) 1,3-Dichloropropene	13.6	12.9	10.0	10.0	ND	136	129	70-136	5	18	
1,1,2-Trichloroethane	12.2	11.5	10.0	10.0	ND	122	115	68-146	6	16	
Tetrachloroethene	10.9	10.8	10.0	10.0	ND	109	108	78-132	1	22	
2-Hexanone	10.9	10.5	10.0	10.0	ND	109	105	57-154	4	25	



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Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	12-055-06										
	MS	MSD	MS	MSD		MS	MSD				
Dibromochloromethane	12.2	11.7	10.0	10.0	ND	122	117	51-160	4	27	
1,2-Dibromoethane	12.0	11.7	10.0	10.0	ND	120	117	74-133	3	16	
Chlorobenzene	11.1	10.7	10.0	10.0	ND	111	107	83-121	4	16	
1,1,1,2-Tetrachloroethane	11.7	11.4	10.0	10.0	ND	117	114	82-129	3	17	
Ethylbenzene	11.1	11.1	10.0	10.0	ND	111	111	84-123	0	17	
m,p-Xylene	23.2	22.8	20.0	20.0	ND	116	114	82-125	2	17	
o-Xylene	11.2	11.1	10.0	10.0	ND	112	111	83-123	1	17	
Styrene	11.7	11.4	10.0	10.0	ND	117	114	83-128	3	19	
Bromoform	12.0	11.4	10.0	10.0	ND	120	114	69-135	5	18	
1,1,2,2-Tetrachloroethane	11.8	11.2	10.0	10.0	ND	118	112	75-138	5	17	
1,2,3-Trichloropropane	11.0	10.6	10.0	10.0	ND	110	106	64-131	4	18	
1,4-Dichlorobenzene	10.4	10.5	10.0	10.0	ND	104	105	79-127	1	15	
1,2-Dichlorobenzene	10.6	10.6	10.0	10.0	ND	106	106	80-130	0	16	
1,2-Dibromo-3-chloropropane	11.9	11.1	10.0	10.0	ND	119	111	68-139	7	19	
Naphthalene	10.6	10.9	10.0	10.0	ND	106	109	67-142	3	23	
<i>Surrogate:</i>											
Dibromofluoromethane						99	100	68-133			
Toluene-d8						101	96	79-123			
4-Bromofluorobenzene						101	100	78-117			



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Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	12-085-01									
	MS	MSD	MS	MSD		MS	MSD			
Chloromethane	9.81	10.0	10.0	10.0	ND	98	100	49-136	2	27
Vinyl Chloride	7.45	7.66	10.0	10.0	ND	75	77	69-126	3	16
Bromomethane	5.11	5.37	10.0	10.0	ND	51	54	32-158	5	24
Chloroethane	7.94	8.11	10.0	10.0	ND	79	81	62-125	2	14
Trichlorofluoromethane	8.06	8.36	10.0	10.0	ND	81	84	80-128	4	16
1,1-Dichloroethene	9.13	9.39	10.0	10.0	ND	91	94	73-125	3	15
Acetone	7.62	8.29	10.0	10.0	ND	76	83	37-164	8	29
Iodomethane	5.70	5.50	10.0	10.0	ND	57	55	35-141	4	25
Carbon Disulfide	11.0	11.6	10.0	10.0	ND	110	116	55-127	5	17
Methylene Chloride	7.82	8.16	10.0	10.0	ND	78	82	63-118	4	16
(trans) 1,2-Dichloroethene	8.89	9.02	10.0	10.0	ND	89	90	70-127	1	16
1,1-Dichloroethane	8.72	8.94	10.0	10.0	ND	87	89	71-126	2	15
Vinyl Acetate	9.35	9.86	10.0	10.0	ND	94	99	60-140	5	17
(cis) 1,2-Dichloroethene	8.97	9.37	10.0	10.0	ND	90	94	71-130	4	16
2-Butanone	9.24	9.87	10.0	10.0	ND	92	99	56-143	7	19
Bromochloromethane	8.62	9.09	10.0	10.0	ND	86	91	68-133	5	17
Chloroform	8.52	8.82	10.0	10.0	ND	85	88	68-127	3	16
1,1,1-Trichloroethane	8.85	8.98	10.0	10.0	ND	89	90	74-127	1	17
Carbon Tetrachloride	9.40	9.57	10.0	10.0	ND	94	96	72-134	2	18
Benzene	8.78	9.07	10.0	10.0	ND	88	91	69-129	3	16
1,2-Dichloroethane	8.87	9.17	10.0	10.0	ND	89	92	71-134	3	17
Trichloroethene	9.38	9.38	10.0	10.0	ND	94	94	74-134	0	12
1,2-Dichloropropane	8.69	9.06	10.0	10.0	ND	87	91	74-130	4	17
Dibromomethane	9.90	9.87	10.0	10.0	ND	99	99	74-140	0	16
Bromodichloromethane	9.45	9.93	10.0	10.0	ND	95	99	77-137	5	17
(cis) 1,3-Dichloropropene	10.3	10.5	10.0	10.0	ND	103	105	73-137	2	17
Methyl Isobutyl Ketone	8.99	9.69	10.0	10.0	ND	90	97	61-146	7	19
Toluene	8.83	8.97	10.0	10.0	ND	88	90	71-128	2	19
(trans) 1,3-Dichloropropene	11.4	11.3	10.0	10.0	ND	114	113	70-136	1	18
1,1,2-Trichloroethane	9.64	9.82	10.0	10.0	ND	96	98	68-146	2	16
Tetrachloroethene	9.34	9.29	10.0	10.0	ND	93	93	78-132	1	22
2-Hexanone	9.40	9.08	10.0	10.0	ND	94	91	57-154	3	25
Dibromochloromethane	10.3	10.4	10.0	10.0	ND	103	104	51-160	1	27



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Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	12-085-01										
	MS	MSD	MS	MSD		MS	MSD				
1,2-Dibromoethane	9.80	9.70	10.0	10.0	ND	98	97	74-133	1	16	
Chlorobenzene	9.23	9.22	10.0	10.0	ND	92	92	83-121	0	16	
1,1,1,2-Tetrachloroethane	10.0	10.1	10.0	10.0	ND	100	101	82-129	1	17	
Ethylbenzene	9.27	9.32	10.0	10.0	ND	93	93	84-123	1	17	
m,p-Xylene	19.6	19.4	20.0	20.0	ND	98	97	82-125	1	17	
o-Xylene	9.48	9.66	10.0	10.0	ND	95	97	83-123	2	17	
Styrene	9.88	9.82	10.0	10.0	ND	99	98	83-128	1	19	
Bromoform	10.7	10.8	10.0	10.0	ND	107	108	69-135	1	18	
1,1,2,2-Tetrachloroethane	8.99	9.01	10.0	10.0	ND	90	90	75-138	0	17	
1,2,3-Trichloropropane	8.40	8.49	10.0	10.0	ND	84	85	64-131	1	18	
1,4-Dichlorobenzene	8.81	8.93	10.0	10.0	ND	88	89	79-127	1	15	
1,2-Dichlorobenzene	8.89	8.93	10.0	10.0	ND	89	89	80-130	0	16	
1,2-Dibromo-3-chloropropane	10.5	10.5	10.0	10.0	ND	105	105	68-139	0	19	
Naphthalene	9.11	9.47	10.0	10.0	ND	91	95	67-142	4	23	
<i>Surrogate:</i>											
Dibromofluoromethane						96	98	68-133			
Toluene-d8						100	97	79-123			
4-Bromofluorobenzene						106	103	78-117			



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Matrix: Water
 Units: ug/L

Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
SPIKE BLANK					
Laboratory ID:	SB1205W1				
Chloromethane	14.4	10.0	144	38-141	I
Vinyl Chloride	11.4	10.0	114	67-131	
Bromomethane	4.92	10.0	49	30-155	
Chloroethane	10.7	10.0	107	63-130	
Trichlorofluoromethane	10.5	10.0	105	80-131	
1,1-Dichloroethene	12.0	10.0	120	77-125	
Acetone	9.66	10.0	97	45-135	
Iodomethane	12.5	10.0	125	27-146	
Carbon Disulfide	13.6	10.0	136	41-150	
Methylene Chloride	10.8	10.0	108	66-123	
(trans) 1,2-Dichloroethene	11.5	10.0	115	76-126	
1,1-Dichloroethane	11.6	10.0	116	75-126	
Vinyl Acetate	12.2	10.0	122	57-139	
(cis) 1,2-Dichloroethene	11.7	10.0	117	77-129	
2-Butanone	12.8	10.0	128	62-129	
Bromochloromethane	11.5	10.0	115	72-129	
Chloroform	11.4	10.0	114	72-125	
1,1,1-Trichloroethane	11.4	10.0	114	79-127	
Carbon Tetrachloride	11.9	10.0	119	78-131	
Benzene	11.5	10.0	115	75-126	
1,2-Dichloroethane	11.7	10.0	117	74-128	
Trichloroethene	11.4	10.0	114	80-130	
1,2-Dichloropropane	11.2	10.0	112	80-124	
Dibromomethane	11.7	10.0	117	80-131	
Bromodichloromethane	11.8	10.0	118	81-131	
(cis) 1,3-Dichloropropene	12.5	10.0	125	74-136	
Methyl Isobutyl Ketone	11.1	10.0	111	67-132	
Toluene	10.8	10.0	108	75-127	
(trans) 1,3-Dichloropropene	13.1	10.0	131	69-137	
1,1,2-Trichloroethane	11.6	10.0	116	80-122	
Tetrachloroethene	11.0	10.0	110	80-130	
2-Hexanone	10.4	10.0	104	67-130	



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Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
SPIKE BLANK					
Laboratory ID:	SB1205W1				
Dibromochloromethane	11.9	10.0	119	58-149	
1,2-Dibromoethane	11.4	10.0	114	82-127	
Chlorobenzene	11.1	10.0	111	80-120	
1,1,1,2-Tetrachloroethane	11.5	10.0	115	80-127	
Ethylbenzene	11.1	10.0	111	80-124	
m,p-Xylene	23.5	20.0	118	80-124	
o-Xylene	11.1	10.0	111	80-123	
Styrene	11.8	10.0	118	82-125	
Bromoform	11.5	10.0	115	66-136	
1,1,2,2-Tetrachloroethane	11.2	10.0	112	78-124	
1,2,3-Trichloropropane	10.2	10.0	102	67-123	
1,4-Dichlorobenzene	10.6	10.0	106	78-123	
1,2-Dichlorobenzene	10.8	10.0	108	79-125	
1,2-Dibromo-3-chloropropane	10.3	10.0	103	62-133	
Naphthalene	10.6	10.0	106	55-132	
<i>Surrogate:</i>					
Dibromofluoromethane			108	68-133	
Toluene-d8			99	79-123	
4-Bromofluorobenzene			103	78-117	



Date of Report: December 12, 2025
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 Laboratory Reference: 2512-055
 Project: 553-8472-009

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
SPIKE BLANK					
Laboratory ID:	SB1208W1				
Chloromethane	11.8	10.0	118	38-141	
Vinyl Chloride	9.25	10.0	93	67-131	
Bromomethane	6.72	10.0	67	30-155	
Chloroethane	9.83	10.0	98	63-130	
Trichlorofluoromethane	9.62	10.0	96	80-131	
1,1-Dichloroethene	11.3	10.0	113	77-125	
Acetone	8.47	10.0	85	45-135	
Iodomethane	8.07	10.0	81	27-146	
Carbon Disulfide	12.0	10.0	120	41-150	
Methylene Chloride	9.94	10.0	99	66-123	
(trans) 1,2-Dichloroethene	11.0	10.0	110	76-126	
1,1-Dichloroethane	10.9	10.0	109	75-126	
Vinyl Acetate	10.8	10.0	108	57-139	
(cis) 1,2-Dichloroethene	11.1	10.0	111	77-129	
2-Butanone	10.7	10.0	107	62-129	
Bromochloromethane	10.6	10.0	106	72-129	
Chloroform	10.4	10.0	104	72-125	
1,1,1-Trichloroethane	10.8	10.0	108	79-127	
Carbon Tetrachloride	11.4	10.0	114	78-131	
Benzene	10.8	10.0	108	75-126	
1,2-Dichloroethane	10.7	10.0	107	74-128	
Trichloroethene	11.2	10.0	112	80-130	
1,2-Dichloropropane	10.8	10.0	108	80-124	
Dibromomethane	11.8	10.0	118	80-131	
Bromodichloromethane	11.6	10.0	116	81-131	
(cis) 1,3-Dichloropropene	12.4	10.0	124	74-136	
Methyl Isobutyl Ketone	9.59	10.0	96	67-132	
Toluene	10.8	10.0	108	75-127	
(trans) 1,3-Dichloropropene	12.7	10.0	127	69-137	
1,1,2-Trichloroethane	11.3	10.0	113	80-122	
Tetrachloroethene	10.7	10.0	107	80-130	
2-Hexanone	9.79	10.0	98	67-130	



Date of Report: December 12, 2025
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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
 page 2 of 2

Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
SPIKE BLANK					
Laboratory ID:	SB1208W1				
Dibromochloromethane	11.9	10.0	119	58-149	
1,2-Dibromoethane	11.1	10.0	111	82-127	
Chlorobenzene	10.9	10.0	109	80-120	
1,1,1,2-Tetrachloroethane	11.6	10.0	116	80-127	
Ethylbenzene	11.1	10.0	111	80-124	
m,p-Xylene	23.4	20.0	117	80-124	
o-Xylene	11.2	10.0	112	80-123	
Styrene	11.8	10.0	118	82-125	
Bromoform	13.0	10.0	130	66-136	
1,1,2,2-Tetrachloroethane	10.3	10.0	103	78-124	
1,2,3-Trichloropropane	9.73	10.0	97	67-123	
1,4-Dichlorobenzene	10.1	10.0	101	78-123	
1,2-Dichlorobenzene	10.2	10.0	102	79-125	
1,2-Dibromo-3-chloropropane	11.3	10.0	113	62-133	
Naphthalene	10.2	10.0	102	55-132	
<i>Surrogate:</i>					
Dibromofluoromethane			98	68-133	
Toluene-d8			99	79-123	
4-Bromofluorobenzene			106	78-117	



Date of Report: December 12, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-055
 Project: 553-8472-009

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-055-01					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	95	62-122				
Client ID:	MW-2S					
Laboratory ID:	12-055-02					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	92	62-122				
Client ID:	MW-3S					
Laboratory ID:	12-055-03					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	62-122				
Client ID:	MW-4S					
Laboratory ID:	12-055-04					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	92	62-122				
Client ID:	MW-5S					
Laboratory ID:	12-055-05					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	92	62-122				
Client ID:	MW-6S					
Laboratory ID:	12-055-06					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	94	62-122				
Client ID:	MW-11S					
Laboratory ID:	12-055-07					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	92	62-122				



Date of Report: December 12, 2025
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 Laboratory Reference: 2512-055
 Project: 553-8472-009

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13S					
Laboratory ID:	12-055-08					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	62-122				
Client ID:	Trip Blanks					
Laboratory ID:	12-055-13					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	62-122				



Date of Report: December 12, 2025
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 Laboratory Reference: 2512-055
 Project: 553-8472-009

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1209W2					
Gasoline	ND	100	NWTPH-Gx	12-9-25	12-9-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	62-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-055-06							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				94	90	62-122		

MATRIX SPIKES

Laboratory ID:	12-055-06									
	MS	MSD	MS	MSD		MS	MSD			
Gasoline	4660	4890	5000	5000	ND	93	98	75-125	5	15
<i>Surrogate:</i>										
<i>Fluorobenzene</i>						84	83	62-122		



Date of Report: December 12, 2025
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 Project: 553-8472-009

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-055-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-10-25	12-10-25	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-10-25	12-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>100</i>	<i>50-150</i>				

Client ID:	MW-2S					
Laboratory ID:	12-055-02					
Diesel Range Organics	ND	0.22	NWTPH-Dx	12-10-25	12-10-25	
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	12-10-25	12-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>90</i>	<i>50-150</i>				

Client ID:	MW-3S					
Laboratory ID:	12-055-03					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-10-25	12-10-25	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-10-25	12-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>104</i>	<i>50-150</i>				

Client ID:	MW-4S					
Laboratory ID:	12-055-04					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-10-25	12-10-25	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-10-25	12-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>109</i>	<i>50-150</i>				

Client ID:	MW-5S					
Laboratory ID:	12-055-05					
Diesel Range Organics	ND	0.20	NWTPH-Dx	12-10-25	12-10-25	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-10-25	12-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>101</i>	<i>50-150</i>				

Client ID:	MW-6S					
Laboratory ID:	12-055-06					
Diesel Range Organics	ND	0.24	NWTPH-Dx	12-10-25	12-10-25	
Lube Oil Range Organics	ND	0.24	NWTPH-Dx	12-10-25	12-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>110</i>	<i>50-150</i>				



Date of Report: December 12, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-055
 Project: 553-8472-009

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11S					
Laboratory ID:	12-055-07					
Diesel Range Organics	ND	0.20	NWTPH-Dx	12-10-25	12-10-25	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-10-25	12-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				
Client ID:	MW-13S					
Laboratory ID:	12-055-08					
Diesel Range Organics	ND	0.24	NWTPH-Dx	12-10-25	12-10-25	
Lube Oil Range Organics	ND	0.24	NWTPH-Dx	12-10-25	12-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				



Date of Report: December 12, 2025
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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	12-10-25	12-10-25	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	12-10-25	12-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-055-06							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA	NA	NA	40	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				110	86	50-150		

MATRIX SPIKES

Laboratory ID:	12-055-06									
	MS	MSD	MS	MSD		MS	MSD			
Diesel Range	0.507	0.628	0.500	0.500	ND	101	126	54-123	21	40
<i>Surrogate:</i>										
<i>o-Terphenyl</i>						92	117	50-150		

SPIKE BLANK

Laboratory ID:	SB1210W1									
Diesel Fuel #2	0.493		0.500		NA	99		54-123	NA	NA
<i>Surrogate:</i>										
<i>o-Terphenyl</i>						106		50-150		





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 29, 2025

Laura Lee
Parametrix, Inc.
719 2nd Avenue, Suite 200
Seattle, WA 98104

Re: Analytical Data for Project 553-8472-009
Laboratory Reference No. 2512-055B

Dear Laura:

Enclosed are the analytical results and associated quality control data for samples submitted on December 4, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager





Analytical Results Report For:

OnSite Environmental, Inc.

Project:

Parametrix DTG Yakima

Anatek Work Order:

YFL0071

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: OnSite Environmental, Inc.
Address: 14648 NE. 95th St.
Redmond, WA 98052
Attn: David Baumeister

Work Order: YFL0071
Project: Parametrix DTG Yakima
Reported: 12/4/2025 18:14

Analytical Results Report

Sample Location: MW-5S
Lab/Sample Number: YFL0071-01 **Collect Date:** 12/02/25 11:35
Date Received: 12/03/25 08:14 **Collected By:** Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	ND	mg/L	0.200	12/4/25 11:19	DRA	Hach 10206	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: MW-11S
Lab/Sample Number: YFL0071-02 Collect Date: 12/02/25 14:50
Date Received: 12/03/25 08:14 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	1.26	mg/L	0.200	12/4/25 11:19	DRA	Hach 10206	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: MW-7D
Lab/Sample Number: YFL0071-03 Collect Date: 12/02/25 13:35
Date Received: 12/03/25 08:14 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	ND	mg/L	0.200	12/4/25 11:19	DRA	Hach 10206	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
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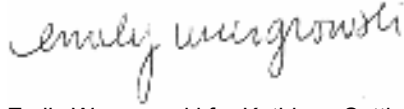
Sample Location: MW-9D
Lab/Sample Number: YFL0071-04 Collect Date: 12/02/25 15:40
Date Received: 12/03/25 08:14 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	ND	mg/L	0.200	12/4/25 11:19	DRA	Hach 10206	

Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Authorized Signature,



Emily Wengrowski for Kathleen Sattler, Lab Manager

PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

This report shall not be reproduced except in full, without the written approval of the laboratory
The results reported related only to the samples indicated.

Anatek Labs, Inc.

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 504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFL0249 - Y Hach Vial										
Blank (BFL0249-BLK1)										
Nitrate as N	ND		0.200	mg/L						
					Prepared & Analyzed: 12/04/25 10:35					
Blank (BFL0249-BLK2)										
Nitrate as N	ND		0.200	mg/L						
					Prepared: 12/04/25 14:35- Analyzed: 12/04/25 14:50					
LCS (BFL0249-BS1)										
Nitrate as N	4.51		0.200	mg/L	5.00		90.2	90-110		
					Prepared & Analyzed: 12/04/25 10:35					
LCS (BFL0249-BS2)										
Nitrate as N	4.84		0.200	mg/L	5.00		96.8	90-110		
					Prepared: 12/04/25 14:35- Analyzed: 12/04/25 15:50					
Matrix Spike (BFL0249-MS1)										
			Source: AFL0096-01			Prepared & Analyzed: 12/04/25 10:35				
Nitrate as N	85.0		2.00	mg/L	50.0	38.4	93.2	80-120		
Matrix Spike (BFL0249-MS2)										
			Source: YFL0091-05			Prepared: 12/04/25 15:02- Analyzed: 12/04/25 15:17				
Nitrate as N	61.1		2.00	mg/L	50.0	15.4	91.4	80-120		
Matrix Spike Dup (BFL0249-MSD1)										
			Source: AFL0096-01			Prepared & Analyzed: 12/04/25 10:35				
Nitrate as N	80.4		2.00	mg/L	50.0	38.4	84.0	80-120	5.56	20
Matrix Spike Dup (BFL0249-MSD2)										
			Source: YFL0091-05			Prepared: 12/04/25 15:02- Analyzed: 12/04/25 15:17				
Nitrate as N	61.8		2.00	mg/L	50.0	15.4	92.8	80-120	1.14	20



Chain of Custody Record

YFLO071



Due: 12/17/25

Anatek
1282 Alturas Drive, N
504 E Sprague Ste D, S

Company Name: On-Site Environmental (Parametrix)
Address: 14648 NE 95th Street
City: Redmond State: WA Zip: 98052
Phone: 425-883-3881
Email Address(es): dbaumeister@onsite-env.com

Project Manager: David Baumeister
Project Name & #: Parametrix DTG Yakima
Purchase Order #: _____
Sampler Name & Phone: _____

Phone: _____
Email: _____
*All rush order requests must have prior approval

List Analyses Requested			Note Special Instructions/Comments	
Lab ID	Sample Identification	Sampling Date/Time	Matrix	
MW-1S			Water	
MW-2S			Water	
MW-3S			Water	
MW-4S			Water	
MW-5S		02/25: 1225	Water	
MW-6S		02/25: 1200/1400	Water	
MW-11S		02/25: 1200/1400	Water	
MW-13S		02/25: 1255	Water	
MW-7D		02/25: 1255	Water	
MW-8D		02/25: 1255	Water	
MW-9D		02/25: 1255	Water	
MW-10D			Water	
Leachate Pond			Water	

Relinquished by	Signature	Date	Time	Company
Received by	<i>[Signature]</i>	02/25	0810	Parametrix
Relinquished by	<i>[Signature]</i>	02/25	0814	Parametrix
Received by				
Relinquished by				
Received by				

Received Intact? Y N
Labels & Chains Agree? Y N
Containers Sealed? Y N
No VOC Head Space? Y N
Cooler? Y N
Ice/ice Packs Present? Y N
Temperature (°C): 12.8 / 12.6 / 12.5 / 12.4
Number of Containers: _____
Shipped Via: _____
Preservative: _____
Date & Time: 02/25 8:14
Inspected By: *[Signature]*



Sam

YFL0071



Due: 12/17/25

Client Name: Onsite Environmental

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 4 Type of Ice: Wet Ice Ice Packs Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts Paper None Other: _____

Samples Received Intact?	<u>Yes</u>	No	N/A
Chain of Custody Present/Complete?	<u>Yes</u>	No	N/A
Labels and Chains Agree?	<u>Yes</u>	No	N/A
Samples Received Within Hold Time?	<u>Yes</u>	No	N/A
Correct Containers Received?	<u>Yes</u>	No	N/A
Anatek Bottles Used?	Yes	<u>No</u>	Unknown
Total Number of Sample Bottles Received:	_____		
Samples Properly Preserved?	Yes	No	<u>N/A</u>
<i>if No, record preservation and pH-after details</i>			
VOC Vials Free of Headspace (<6mm)?	Yes	No	<u>N/A</u>
VOC Trip Blanks Present?	Yes	No	<u>N/A</u>

Record specific containers with preservatives (and lot numbers):

Client Cont x 4

Notes, comments, etc.

Received/Inspected By: Anderson Date/Time: 12/3/25 8:14

Cooler Temperature	
Read (°C):	<u>1.8</u>
Corrected (°C):	<u>1.4</u>
Thermometer Used:	<u>DIS-16 (AN Digital)</u>

Comments:

Initial pH: <2 or	pH Paper ID:



Analytical Results Report For:

OnSite Environmental, Inc.

Project:

Parametrix DTG Yakima

Anatek Work Order:

YFL0091

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: OnSite Environmental, Inc.
Address: 14648 NE. 95th St.
Redmond, WA 98052
Attn: David Baumeister

Work Order: YFL0091
Project: Parametrix DTG Yakima
Reported: 12/4/2025 18:39

Analytical Results Report

Sample Location: MW-1S
Lab/Sample Number: YFL0091-01 **Collect Date:** 12/04/25 09:45
Date Received: 12/04/25 11:21 **Collected By:** Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	0.206	mg/L	0.200	12/4/25 14:50	DRA	Hach 10206	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: MW-2S
Lab/Sample Number: YFL0091-02 Collect Date: 12/03/25 11:00
Date Received: 12/04/25 11:21 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	0.703	mg/L	0.200	12/4/25 14:50	DRA	Hach 10206	

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Sample Location: MW-3S
Lab/Sample Number: YFL0091-03 Collect Date: 12/03/25 14:50
Date Received: 12/04/25 11:21 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	12.4	mg/L	0.200	12/4/25 14:50	DRA	Hach 10206	

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Sample Location: MW-4S
Lab/Sample Number: YFL0091-04 Collect Date: 12/03/25 13:45
Date Received: 12/04/25 11:21 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	70.5	mg/L	2.00	12/4/25 15:17	DRA	Hach 10206	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: MW-6S
Lab/Sample Number: YFL0091-05 Collect Date: 12/03/25 12:15
Date Received: 12/04/25 11:21 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	15.4	mg/L	2.00	12/4/25 15:17	DRA	Hach 10206	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: MW-13S
Lab/Sample Number: YFL0091-06 Collect Date: 12/03/25 08:30
Date Received: 12/04/25 11:21 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	15.5	mg/L	2.00	12/4/25 15:17	DRA	Hach 10206	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Sample Location: MW-8D
Lab/Sample Number: YFL0091-07 Collect Date: 12/03/25 09:55
Date Received: 12/04/25 11:21 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	1.27	mg/L	0.200	12/4/25 14:50	DRA	Hach 10206	

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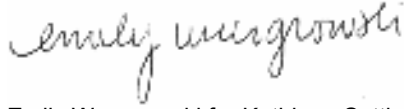
Sample Location: MW-10D
Lab/Sample Number: YFL0091-08 Collect Date: 12/03/25 15:45
Date Received: 12/04/25 11:21 Collected By: Brianna Hines
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Nitrate/N	1.60	mg/L	0.200	12/4/25 14:50	DRA	Hach 10206	

Anatek Labs, Inc.

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Authorized Signature,



Emily Wengrowski for Kathleen Sattler, Lab Manager

PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

This report shall not be reproduced except in full, without the written approval of the laboratory
The results reported related only to the samples indicated.

Anatek Labs, Inc.

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFL0249 - Y Hach Vial										
Blank (BFL0249-BLK1)										
Nitrate as N	ND		0.200	mg/L						
					Prepared & Analyzed: 12/04/25 10:35					
Blank (BFL0249-BLK2)										
Nitrate as N	ND		0.200	mg/L						
					Prepared: 12/04/25 14:35- Analyzed: 12/04/25 14:50					
LCS (BFL0249-BS1)										
Nitrate as N	4.51		0.200	mg/L	5.00		90.2	90-110		
					Prepared & Analyzed: 12/04/25 10:35					
LCS (BFL0249-BS2)										
Nitrate as N	4.84		0.200	mg/L	5.00		96.8	90-110		
					Prepared: 12/04/25 14:35- Analyzed: 12/04/25 15:50					
Matrix Spike (BFL0249-MS1)										
			Source: AFL0096-01			Prepared & Analyzed: 12/04/25 10:35				
Nitrate as N	85.0		2.00	mg/L	50.0	38.4	93.2	80-120		
Matrix Spike (BFL0249-MS2)										
			Source: YFL0091-05			Prepared: 12/04/25 15:02- Analyzed: 12/04/25 15:17				
Nitrate as N	61.1		2.00	mg/L	50.0	15.4	91.4	80-120		
Matrix Spike Dup (BFL0249-MSD1)										
			Source: AFL0096-01			Prepared & Analyzed: 12/04/25 10:35				
Nitrate as N	80.4		2.00	mg/L	50.0	38.4	84.0	80-120	5.56	20
Matrix Spike Dup (BFL0249-MSD2)										
			Source: YFL0091-05			Prepared: 12/04/25 15:02- Analyzed: 12/04/25 15:17				
Nitrate as N	61.8		2.00	mg/L	50.0	15.4	92.8	80-120	1.14	20

YFL0091



Due: 12/18/25

Anatek L

1282 Alturas Drive, Moscow
504 E Sprague Ste D, Spokane

Chain of Custody Record

Turn A

Please refer

www.anateklabs.com/turn-a

Phone _____

Email _____

*All rush order requests must have prior approval

X Normal

Next Day*

2nd Day*

Other*

Project Name: OnSite Environmental (Parametrix)

Project Manager: David Baumeister

Project Name & #: Parametrix DTG Yakima

Purchase Order #: _____

Sampler Name & Phone: _____

City: Redmond

State: WA

Zip: 98052

Phone: 425-883-3881

Email Address(es): dbaumeister@onsite-env.com

List Analytes Requested

Note Special Instructions/Comments

Extra MS/MSD volume @ MW-6S

Received intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ic/ice Packs Present?	Y	N

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Analyte	Company	Date	Time
MW-1S		07/1/25 - 1445	Water	1		Nitrate	Parametrix	12/1/25	11:20
MW-2S		12/3/25 - 1100	Water	1					
MW-3S		12/3/25 - 1450	Water	1					
MW-4S		12/3/25 - 1345	Water	1					
MW-5S			Water	1					
MW-6S		12/3/25 - 1215	Water	1					
MW-11S			Water	2					
MW-13S		12/3/25 - 0850	Water	1					
MW-7D			Water	1					
MW-8D		12/3/25 - 0855	Water	1					
MW-9D			Water	1					
MW-10D		12/3/25 - 1535	Water	1					
Leachate Pond			Water	1					

Temperature (°C): _____

Number of Containers: _____

Shipped Via: _____

Preservative: _____

Date & Time: 12/1/25 11:21

Inspected By: *DB*

Signature: *David Baumeister*

Signature: *David Baumeister*

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analytes will be clearly noted on the analytical report.



YFL0091



Due: 12/18/25

S:

m

Client Name: Onsite EnvironmentalTAT: Normal RUSH: _____ daysSamples Received From: FedEx UPS USPS Client Courier Other: _____Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/ANumber of Coolers/Boxes: 1 Type of Ice: Wet Ice Ice Packs Dry Ice NonePacking Material: Bubble Wrap Bags Foam/Peanuts Paper None Other: _____

Samples Received Intact?	<u>Yes</u>	No	N/A
Chain of Custody Present/Complete?	<u>Yes</u>	No	N/A
Labels and Chains Agree?	<u>Yes</u>	No	N/A
Samples Received Within Hold Time?	<u>Yes</u>	No	N/A
Correct Containers Received?	<u>Yes</u>	No	N/A
Anatek Bottles Used?	<u>Yes</u>	<u>No</u>	Unknown

Total Number of Sample Bottles Received: 9Samples Properly Preserved? Yes No N/A*If No, record preservation and pH-after details*VOC Vials Free of Headspace (<6mm)? Yes No N/AVOC Trip Blanks Present? Yes No N/A

Record specific containers with preservatives (and lot numbers):

Client Cont x 9

Notes, comments, etc.

Received/Inspected By: Anderson Date/Time: 12/4/25 1121

Cooler Temperature	
Read (°C):	<u>3.6</u>
Corrected (°C):	<u>3.6</u>
Thermometer Used:	<u>BFG-16 Dig. 01 (00)</u>

Comments:	
Initial pH: <2 or	pH Paper ID:



Chain of Custody

Laboratory Number: **12-055**

Turnaround Request (if working days)
(Check One)

Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
(TPH) analysis 5 Days

(Other) _____

Company: **Parametrix**

Project Number: **553-8472-009**

Project Name: **Rocky Top Environmental LPL**

Project Manager: **Laura Lee, Mike Brady**

Sampled by: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analytes																
						VOA (EPA 141-146)	VOC (EPA 141-146)	SVOC (EPA 141-146)	TPH	Ammonia	Asbestos	Bioassay	Chloride	Cyanide	Fluoride	Nitrate	Phosphate	Sulfate				
1	MW-15	12/12/05	0945	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	MW-25	12/12/05	1100	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	MW-35	12/12/05	1450	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	MW-4S	12/12/05	1345	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	MW-5S	12/12/05	1135	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	MW-6S	12/12/05	1215	Water	14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	MW-11S	12/12/05	1450	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	MW-13S	12/12/05	0830	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	MW-7D	12/12/05	1335	Water	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	MW-8D	12/12/05	0955	Water	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Signature: *Laura Lee*

Company: **Parametrix**

Date: **12/14/05** Time: **1430**

Comments/Special Instructions: **Additional MSWMSD volumes taken @ MW-6S @ Add-a vials MS**

Reviewed/Date: _____

Chromatograms with final report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 16, 2025

Laura Lee
Parametrix, Inc.
719 2nd Avenue, Suite 200
Seattle, WA 98104

Re: Analytical Data for Project 553-8472-009
Laboratory Reference No. 2512-056

Dear Laura:

Enclosed are the analytical results and associated quality control data for samples submitted on December 4, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 16, 2025
Samples Submitted: December 4, 2025
Laboratory Reference: 2512-056
Project: 553-8472-009

Case Narrative

Samples were collected on December 2, 3 and 4, 2025 and received by the laboratory on December 4, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Dissolved Solids SM 2540C Analysis

Sample **MW-2S** was found to have poor recovery during the initial analysis and was reanalyzed outside of holding time. Both values are reported.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: December 16, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-056
 Project: 553-8472-009

**TOTAL METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-056-01					
Iron	0.89	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	8.9	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	0.21	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-2S					
Laboratory ID:	12-056-02					
Iron	ND	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	9.0	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	ND	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-3S					
Laboratory ID:	12-056-03					
Iron	ND	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	35	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	ND	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-4S					
Laboratory ID:	12-056-04					
Iron	ND	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	51	10	EPA 6010D	12-8-25	12-11-25	
Manganese	ND	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-5S					
Laboratory ID:	12-056-05					
Iron	0.12	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	16	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	0.023	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-6S					
Laboratory ID:	12-056-06					
Iron	ND	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	28	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	ND	0.010	EPA 6010D	12-8-25	12-11-25	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: December 16, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-056
 Project: 553-8472-009

**TOTAL METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11S					
Laboratory ID:	12-056-07					
Iron	ND	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	13	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	0.053	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-13S					
Laboratory ID:	12-056-08					
Iron	ND	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	30	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	ND	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-7D					
Laboratory ID:	12-056-09					
Iron	0.10	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	9.0	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	0.027	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-8D					
Laboratory ID:	12-056-10					
Iron	0.29	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	18	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	0.023	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-9D					
Laboratory ID:	12-056-11					
Iron	0.15	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	18	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	0.014	0.010	EPA 6010D	12-8-25	12-11-25	

Client ID:	MW-10D					
Laboratory ID:	12-056-12					
Iron	ND	0.050	EPA 6010D	12-8-25	12-11-25	
Magnesium	9.9	1.0	EPA 6010D	12-8-25	12-11-25	
Manganese	ND	0.010	EPA 6010D	12-8-25	12-11-25	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 16, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-056
 Project: 553-8472-009

**TOTAL METALS
 EPA 6010D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208WH2					
Iron	ND	0.050	EPA 6010D	12-8-25	12-12-25	
Magnesium	ND	1.0	EPA 6010D	12-8-25	12-12-25	
Manganese	ND	0.010	EPA 6010D	12-8-25	12-12-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-048-01							
	ORIG	DUP						
Iron	0.312	0.286	NA	NA	NA	NA	8	20
Magnesium	ND	ND	NA	NA	NA	NA	NA	20
Manganese	0.0121	0.0122	NA	NA	NA	NA	0	20

MATRIX SPIKES

Laboratory ID:	MS	MSD	MS	MSD	MS	MSD	MSD	RPD	RPD Limit
12-048-01									
Iron	18.4	19.2	20.0	20.0	0.312	90	94	75-125	4
Magnesium	20.5	20.6	20.0	20.0	ND	103	103	75-125	1
Manganese	0.491	0.495	0.500	0.500	0.0121	96	97	75-125	1

SPIKE BLANK

Laboratory ID:	MS	MSD	MS	MSD	MS	MSD	RPD	RPD Limit
SB1208WH2								
Iron	19.3		20.0		N/A		97	80-120
Magnesium	20.9		20.0		N/A		104	80-120
Manganese	0.494		0.500		N/A		99	80-120



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**DISSOLVED METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-056-01					
Calcium	14	1.1	EPA 6010D		12-11-25	
Iron	0.062	0.056	EPA 6010D		12-11-25	
Magnesium	8.9	1.1	EPA 6010D		12-11-25	
Manganese	0.15	0.011	EPA 6010D		12-11-25	
Potassium	2.4	1.1	EPA 6010D		12-11-25	
Sodium	16	1.1	EPA 6010D		12-11-25	

Client ID:	MW-2S					
Laboratory ID:	12-056-02					
Calcium	12	1.1	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	8.8	1.1	EPA 6010D		12-11-25	
Manganese	ND	0.011	EPA 6010D		12-11-25	
Potassium	2.9	1.1	EPA 6010D		12-11-25	
Sodium	9.9	1.1	EPA 6010D		12-11-25	

Client ID:	MW-3S					
Laboratory ID:	12-056-03					
Calcium	48	1.1	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	35	1.1	EPA 6010D		12-11-25	
Manganese	ND	0.011	EPA 6010D		12-11-25	
Potassium	4.5	1.1	EPA 6010D		12-11-25	
Sodium	20	1.1	EPA 6010D		12-11-25	

Client ID:	MW-4S					
Laboratory ID:	12-056-04					
Calcium	88	10	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	59	1.1	EPA 6010D		12-11-25	
Manganese	ND	0.011	EPA 6010D		12-11-25	
Potassium	6.2	1.1	EPA 6010D		12-11-25	
Sodium	21	1.1	EPA 6010D		12-11-25	



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**DISSOLVED METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5S					
Laboratory ID:	12-056-05					
Calcium	26	1.1	EPA 6010D		12-11-25	
Iron	0.10	0.056	EPA 6010D		12-11-25	
Magnesium	18	1.1	EPA 6010D		12-11-25	
Manganese	0.020	0.011	EPA 6010D		12-11-25	
Potassium	3.4	1.1	EPA 6010D		12-11-25	
Sodium	18	1.1	EPA 6010D		12-11-25	

Client ID:	MW-6S					
Laboratory ID:	12-056-06					
Calcium	46	1.1	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	32	1.1	EPA 6010D		12-11-25	
Manganese	ND	0.011	EPA 6010D		12-11-25	
Potassium	4.4	1.1	EPA 6010D		12-11-25	
Sodium	17	1.1	EPA 6010D		12-11-25	

Client ID:	MW-11S					
Laboratory ID:	12-056-07					
Calcium	19	1.1	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	14	1.1	EPA 6010D		12-11-25	
Manganese	0.056	0.011	EPA 6010D		12-11-25	
Potassium	3.5	1.1	EPA 6010D		12-11-25	
Sodium	13	1.1	EPA 6010D		12-11-25	

Client ID:	MW-13S					
Laboratory ID:	12-056-08					
Calcium	46	1.1	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	32	1.1	EPA 6010D		12-11-25	
Manganese	ND	0.011	EPA 6010D		12-11-25	
Potassium	4.3	1.1	EPA 6010D		12-11-25	
Sodium	17	1.1	EPA 6010D		12-11-25	



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**DISSOLVED METALS
 EPA 6010D**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7D					
Laboratory ID:	12-056-09					
Calcium	13	1.1	EPA 6010D		12-11-25	
Iron	0.061	0.056	EPA 6010D		12-11-25	
Magnesium	10	1.1	EPA 6010D		12-11-25	
Manganese	0.029	0.011	EPA 6010D		12-11-25	
Potassium	2.5	1.1	EPA 6010D		12-11-25	
Sodium	11	1.1	EPA 6010D		12-11-25	

Client ID:	MW-8D					
Laboratory ID:	12-056-10					
Calcium	29	1.1	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	21	1.1	EPA 6010D		12-11-25	
Manganese	0.024	0.011	EPA 6010D		12-11-25	
Potassium	3.1	1.1	EPA 6010D		12-11-25	
Sodium	21	1.1	EPA 6010D		12-11-25	

Client ID:	MW-9D					
Laboratory ID:	12-056-11					
Calcium	30	1.1	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	19	1.1	EPA 6010D		12-11-25	
Manganese	ND	0.011	EPA 6010D		12-11-25	
Potassium	2.2	1.1	EPA 6010D		12-11-25	
Sodium	24	1.1	EPA 6010D		12-11-25	

Client ID:	MW-10D					
Laboratory ID:	12-056-12					
Calcium	18	1.1	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	11	1.1	EPA 6010D		12-11-25	
Manganese	ND	0.011	EPA 6010D		12-11-25	
Potassium	2.4	1.1	EPA 6010D		12-11-25	
Sodium	12	1.1	EPA 6010D		12-11-25	



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**DISSOLVED METALS
 EPA 6010D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1211D1					
Calcium	ND	1.1	EPA 6010D		12-11-25	
Iron	ND	0.056	EPA 6010D		12-11-25	
Magnesium	ND	1.1	EPA 6010D		12-11-25	
Manganese	ND	0.011	EPA 6010D		12-11-25	
Potassium	ND	1.1	EPA 6010D		12-11-25	
Sodium	ND	1.1	EPA 6010D		12-11-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-01							
	ORIG	DUP						
Calcium	14.5	14.7	NA	NA	NA	NA	1	20
Iron	0.0620	ND	NA	NA	NA	NA	NA	20
Magnesium	8.94	9.04	NA	NA	NA	NA	1	20
Manganese	0.150	0.152	NA	NA	NA	NA	1	20
Potassium	2.39	2.34	NA	NA	NA	NA	2	20
Sodium	15.6	15.8	NA	NA	NA	NA	1	20

MATRIX SPIKES

Laboratory ID:	12-056-01									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	35.6	37.0	22.2	22.2	14.5	95	101	75-125	4	20
Iron	23.3	24.7	22.2	22.2	0.0620	105	111	75-125	6	20
Magnesium	31.3	32.3	22.2	22.2	8.94	101	105	75-125	3	20
Manganese	0.683	0.671	0.556	0.556	0.150	96	94	75-125	2	20
Potassium	25.8	26.8	22.2	22.2	2.39	106	110	75-125	4	20
Sodium	37.4	38.3	22.2	22.2	15.6	98	102	75-125	2	20

SPIKE BLANK

Laboratory ID:	SB1211D1									
Calcium	23.0		22.2		N/A	104		80-120		
Iron	23.9		22.2		N/A	108		80-120		
Magnesium	23.8		22.2		N/A	107		80-120		
Manganese	0.532		0.556		N/A	96		80-120		
Potassium	23.7		22.2		N/A	107		80-120		
Sodium	24.6		22.2		N/A	111		80-120		



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**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-056-01					
Chloride	4.0	2.0	SM 4500-Cl E	12-5-25	12-5-25	

Client ID:	MW-2S					
Laboratory ID:	12-056-02					
Chloride	2.2	2.0	SM 4500-Cl E	12-5-25	12-5-25	

Client ID:	MW-3S					
Laboratory ID:	12-056-03					
Chloride	64	2.0	SM 4500-Cl E	12-5-25	12-5-25	

Client ID:	MW-4S					
Laboratory ID:	12-056-04					
Chloride	36	2.0	SM 4500-Cl E	12-5-25	12-5-25	

Client ID:	MW-5S					
Laboratory ID:	12-056-05					
Chloride	19	2.0	SM 4500-Cl E	12-5-25	12-5-25	

Client ID:	MW-6S					
Laboratory ID:	12-056-06					
Chloride	67	2.0	SM 4500-Cl E	12-5-25	12-5-25	

Client ID:	MW-11S					
Laboratory ID:	12-056-07					
Chloride	7.7	2.0	SM 4500-Cl E	12-5-25	12-5-25	

Client ID:	MW-13S					
Laboratory ID:	12-056-08					
Chloride	73	2.0	SM 4500-Cl E	12-5-25	12-5-25	

Client ID:	MW-7D					
Laboratory ID:	12-056-09					
Chloride	2.1	2.0	SM 4500-Cl E	12-5-25	12-5-25	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	12-056-10					
Chloride	21	2.0	SM 4500-Cl E	12-5-25	12-5-25	
Client ID:	MW-9D					
Laboratory ID:	12-056-11					
Chloride	42	2.0	SM 4500-Cl E	12-5-25	12-5-25	
Client ID:	MW-10D					
Laboratory ID:	12-056-12					
Chloride	2.9	2.0	SM 4500-Cl E	12-5-25	12-5-25	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Chloride	ND	2.0	SM 4500-Cl E	12-5-25	12-5-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-06							
	ORIG	DUP						
Chloride	67.1	69.2	NA	NA	NA	3	15	

MATRIX SPIKES

Laboratory ID:	12-056-06									
	MS	MSD	MS	MSD	MS	MSD				
Chloride	169	168	100	100	67.1	102	101	79-131	1	20

SPIKE BLANK

Laboratory ID:	SB1205W1									
	SB		SB		SB					
Chloride	48.5		50.0		97			82-123	NA	NA



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SULFATE
ASTM D516-16

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-056-01					
Sulfate	9.4	5.0	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-2S					
Laboratory ID:	12-056-02					
Sulfate	5.4	5.0	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-3S					
Laboratory ID:	12-056-03					
Sulfate	89	25	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-4S					
Laboratory ID:	12-056-04					
Sulfate	120	25	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-5S					
Laboratory ID:	12-056-05					
Sulfate	52	10	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-6S					
Laboratory ID:	12-056-06					
Sulfate	64	20	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-11S					
Laboratory ID:	12-056-07					
Sulfate	15	5.0	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-13S					
Laboratory ID:	12-056-08					
Sulfate	64	20	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-7D					
Laboratory ID:	12-056-09					
Sulfate	ND	5.0	ASTM D516-16	12-9-25	12-9-25	



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SULFATE
ASTM D516-16

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	12-056-10					
Sulfate	81	20	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-9D					
Laboratory ID:	12-056-11					
Sulfate	60	20	ASTM D516-16	12-9-25	12-9-25	

Client ID:	MW-10D					
Laboratory ID:	12-056-12					
Sulfate	13	5.0	ASTM D516-16	12-9-25	12-9-25	



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**SULFATE
 ASTM D516-16
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1209W1					
Sulfate	ND	5.0	ASTM D516-16	12-9-25	12-9-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-06							
	ORIG	DUP						
Sulfate	63.7	62.1	NA	NA	NA	NA	3	11

MATRIX SPIKES

Laboratory ID:	12-056-06									
	MS	MSD	MS	MSD	MS	MSD				
Sulfate	104	105	40.0	40.0	63.7	101	103	70-131	1	20

SPIKE BLANK

Laboratory ID:	SB1209W1									
	SB		SB		SB					
Sulfate	8.95		10.0		NA	90		83-113	NA	NA



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-056-01					
Total Dissolved Solids	150	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-2S					
Laboratory ID:	12-056-02					
Total Dissolved Solids	21	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-2S (Reanalysis)					
Laboratory ID:	12-056-02 (Reanalysis)					
Total Dissolved Solids	120	13	SM 2540C	12-11-25	12-11-25	

Client ID:	MW-3S					
Laboratory ID:	12-056-03					
Total Dissolved Solids	400	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-4S					
Laboratory ID:	12-056-04					
Total Dissolved Solids	720	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-5S					
Laboratory ID:	12-056-05					
Total Dissolved Solids	220	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-6S					
Laboratory ID:	12-056-06					
Total Dissolved Solids	410	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-11S					
Laboratory ID:	12-056-07					
Total Dissolved Solids	170	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-13S					
Laboratory ID:	12-056-08					
Total Dissolved Solids	440	13	SM 2540C	12-8-25	12-8-25	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7D					
Laboratory ID:	12-056-09					
Total Dissolved Solids	150	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-8D					
Laboratory ID:	12-056-10					
Total Dissolved Solids	300	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-9D					
Laboratory ID:	12-056-11					
Total Dissolved Solids	320	13	SM 2540C	12-8-25	12-8-25	

Client ID:	MW-10D					
Laboratory ID:	12-056-12					
Total Dissolved Solids	170	13	SM 2540C	12-8-25	12-8-25	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Total Dissolved Solids	ND	13	SM 2540C	12-8-25	12-8-25	

Laboratory ID:	MB1211W1					
Total Dissolved Solids	ND	13	SM 2540C	12-11-25	12-11-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-06							
	ORIG	DUP						
Total Dissolved Solids	412	433	NA	NA	NA	5	40	

Laboratory ID:	12-101-01							
	ORIG	DUP						
Total Dissolved Solids	1330	1350	NA	NA	NA	1	40	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK								
Laboratory ID:	SB1208W1							
	SB	SB		SB				
Total Dissolved Solids	487	500	NA	97	72-123	NA	NA	
Laboratory ID:	SB1211W1							
	SB	SB		SB				
Total Dissolved Solids	515	500	NA	103	72-123	NA	NA	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-056-01					
Total Alkalinity	96	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-2S					
Laboratory ID:	12-056-02					
Total Alkalinity	80	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-3S					
Laboratory ID:	12-056-03					
Total Alkalinity	100	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-4S					
Laboratory ID:	12-056-04					
Total Alkalinity	120	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-5S					
Laboratory ID:	12-056-05					
Total Alkalinity	110	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-6S					
Laboratory ID:	12-056-06					
Total Alkalinity	94	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-11S					
Laboratory ID:	12-056-07					
Total Alkalinity	110	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-13S					
Laboratory ID:	12-056-08					
Total Alkalinity	88	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-7D					
Laboratory ID:	12-056-09					
Total Alkalinity	98	2.0	SM 2320B	12-8-25	12-8-25	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 16, 2025
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 Project: 553-8472-009

**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	12-056-10					
Total Alkalinity	92	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-9D					
Laboratory ID:	12-056-11					
Total Alkalinity	90	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-10D					
Laboratory ID:	12-056-12					
Total Alkalinity	94	2.0	SM 2320B	12-8-25	12-8-25	



Date of Report: December 16, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-056
 Project: 553-8472-009

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Total Alkalinity	ND	2.0	SM 2320B	12-8-25	12-8-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-06							
	ORIG	DUP						
Total Alkalinity	94.0	94.0	NA	NA	NA	0	10	

MATRIX SPIKES

Laboratory ID:	12-056-06									
	MS	MSD	MS	MSD	MS	MSD				
Total Alkalinity	178	176	100	100	94.0	84	82	80-120	1	20

SPIKE BLANK

Laboratory ID:	SB1208W1									
	SB		SB		SB					
Total Alkalinity	98.0		100		98			81-104	NA	NA



Date of Report: December 16, 2025
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 Laboratory Reference: 2512-056
 Project: 553-8472-009

**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-056-01					
Bicarbonate	96	2.0	SM 2320B	12-8-25	12-8-25	
Client ID:	MW-2S					
Laboratory ID:	12-056-02					
Bicarbonate	80	2.0	SM 2320B	12-8-25	12-8-25	
Client ID:	MW-3S					
Laboratory ID:	12-056-03					
Bicarbonate	100	2.0	SM 2320B	12-8-25	12-8-25	
Client ID:	MW-4S					
Laboratory ID:	12-056-04					
Bicarbonate	120	2.0	SM 2320B	12-8-25	12-8-25	
Client ID:	MW-5S					
Laboratory ID:	12-056-05					
Bicarbonate	110	2.0	SM 2320B	12-8-25	12-8-25	
Client ID:	MW-6S					
Laboratory ID:	12-056-06					
Bicarbonate	94	2.0	SM 2320B	12-8-25	12-8-25	
Client ID:	MW-11S					
Laboratory ID:	12-056-07					
Bicarbonate	110	2.0	SM 2320B	12-8-25	12-8-25	
Client ID:	MW-13S					
Laboratory ID:	12-056-08					
Bicarbonate	88	2.0	SM 2320B	12-8-25	12-8-25	
Client ID:	MW-7D					
Laboratory ID:	12-056-09					
Bicarbonate	98	2.0	SM 2320B	12-8-25	12-8-25	



Date of Report: December 16, 2025
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 Laboratory Reference: 2512-056
 Project: 553-8472-009

**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	12-056-10					
Bicarbonate	92	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-9D					
Laboratory ID:	12-056-11					
Bicarbonate	90	2.0	SM 2320B	12-8-25	12-8-25	

Client ID:	MW-10D					
Laboratory ID:	12-056-12					
Bicarbonate	94	2.0	SM 2320B	12-8-25	12-8-25	



Date of Report: December 16, 2025
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 Laboratory Reference: 2512-056
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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Bicarbonate	ND	2.0	SM 2320B	12-8-25	12-8-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-06							
	ORIG	DUP						
Bicarbonate	94.0	94.0	NA	NA	NA	0	10	

MATRIX SPIKES

Laboratory ID:	12-056-06									
	MS	MSD	MS	MSD	MS	MSD				
Bicarbonate	178	176	100	100	94.0	84	82	80-120	1	20

SPIKE BLANK

Laboratory ID:	SB1208W1									
	SB		SB		SB					
Bicarbonate	98.0		100		98			81-104	NA	NA



Date of Report: December 16, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-056
 Project: 553-8472-009

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-056-01					
Ammonia	0.068	0.053	SM 4500-NH3 D	12-5-25	12-5-25	
Client ID:	MW-2S					
Laboratory ID:	12-056-02					
Ammonia	0.065	0.053	SM 4500-NH3 D	12-5-25	12-5-25	
Client ID:	MW-3S					
Laboratory ID:	12-056-03					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	
Client ID:	MW-4S					
Laboratory ID:	12-056-04					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	
Client ID:	MW-5S					
Laboratory ID:	12-056-05					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	
Client ID:	MW-6S					
Laboratory ID:	12-056-06					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	
Client ID:	MW-11S					
Laboratory ID:	12-056-07					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	
Client ID:	MW-13S					
Laboratory ID:	12-056-08					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	
Client ID:	MW-7D					
Laboratory ID:	12-056-09					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 16, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-056
 Project: 553-8472-009

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	12-056-10					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	

Client ID:	MW-9D					
Laboratory ID:	12-056-11					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	

Client ID:	MW-10D					
Laboratory ID:	12-056-12					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	



Date of Report: December 16, 2025
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 Project: 553-8472-009

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W2					
Ammonia	ND	0.053	SM 4500-NH3 D	12-5-25	12-5-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-06							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	21	

Analyte	MS	MSD	MS	MSD	MS	MSD	RPD	RPD Limit	Flags	
MATRIX SPIKES										
Laboratory ID:	12-056-06									
	MS	MSD	MS	MSD	MS	MSD				
Ammonia	4.76	4.92	5.00	5.00	ND	95	98	76-114	3	20

Analyte	SB	PQL	SB	Percent Recovery	RPD	RPD Limit	Flags
SPIKE BLANK							
Laboratory ID:	SB1205W2						
	SB		SB				
Ammonia	4.66	5.00	NA	93	81-110	NA	NA



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 Project: 553-8472-009

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1S					
Laboratory ID:	12-056-01					
Total Organic Carbon	ND	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-2S					
Laboratory ID:	12-056-02					
Total Organic Carbon	ND	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-3S					
Laboratory ID:	12-056-03					
Total Organic Carbon	3.0	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-4S					
Laboratory ID:	12-056-04					
Total Organic Carbon	2.8	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-5S					
Laboratory ID:	12-056-05					
Total Organic Carbon	ND	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-6S					
Laboratory ID:	12-056-06					
Total Organic Carbon	3.4	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-11S					
Laboratory ID:	12-056-07					
Total Organic Carbon	ND	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-13S					
Laboratory ID:	12-056-08					
Total Organic Carbon	3.4	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-7D					
Laboratory ID:	12-056-09					
Total Organic Carbon	ND	1.0	SM 5310B	12-5-25	12-5-25	



Date of Report: December 16, 2025
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 Laboratory Reference: 2512-056
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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8D					
Laboratory ID:	12-056-10					
Total Organic Carbon	ND	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-9D					
Laboratory ID:	12-056-11					
Total Organic Carbon	3.1	1.0	SM 5310B	12-5-25	12-5-25	

Client ID:	MW-10D					
Laboratory ID:	12-056-12					
Total Organic Carbon	ND	1.0	SM 5310B	12-5-25	12-5-25	



Date of Report: December 16, 2025
 Samples Submitted: December 4, 2025
 Laboratory Reference: 2512-056
 Project: 553-8472-009

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Total Organic Carbon	ND	1.0	SM 5310B	12-5-25	12-5-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-06							
	ORIG	DUP						
Total Organic Carbon	3.37	3.34	NA	NA	NA	NA	1	10

MATRIX SPIKES

Laboratory ID:	12-056-06									
	MS	MSD	MS	MSD	MS	MSD				
Total Organic Carbon	13.2	13.0	10.0	10.0	3.37	98	96	70-136	2	20

SPIKE BLANK

Laboratory ID:	SB1205W1									
	SB		SB		SB					
Total Organic Carbon	10.2		10.0		NA	102		83-130	NA	NA





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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Company: **Parametrix**
 Project Number: **553-8472-009**
 Project Name: **Rocky Top Environmental LPL**
 Project Manager: **Laura Lee, Mike Brady**
 Sampled by:

Chain of Custody

Laboratory Number: **12-056**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 (other)

Number of Containers

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Alkalinity, Bicarbonate, TDS	Chloride, Sulfate	Ammonia	TOC	Dissolved Metals (Fe, Mn, Mg, Ca, K, Na)	Total Metals (Fe, Mn, Mg)	% Moisture
1	MW-15	12/14/25	0945	Water	X	X	X	X	X	X	
2	MW-25	12/30/25	1100	Water	X	X	X	X	X	X	
3	MW-35	12/30/25	1450	Water	X	X	X	X	X	X	
4	MW-45	12/30/25	1345	Water	X	X	X	X	X	X	
5	MW-55	12/30/25	1035	Water	X	X	X	X	X	X	
6	MW-65	12/30/25	1215	Water	X	X	X	X	X	X	
7	MW-115	12/30/25	1450	Water	X	X	X	X	X	X	
8	MW-155	12/30/25	0830	Water	X	X	X	X	X	X	
9	MW-7D	12/30/25	1335	Water	X	X	X	X	X	X	
10	MW-8D	12/30/25	0900	Water	X	X	X	X	X	X	

Signature	Company	Date	Time	Comments/Special Instructions
<i>Laura Lee</i>	Parametrix	12/14/25	1450	Additional MS/MSD volumes taken @ MW-55 for Alkalinity, TDS, Chloride, Sulfate
<i>Mike Brady</i>		12/14/25	1430	
Reviewed/Date	Reviewed/Date			Chromatograms with final report <input type="checkbox"/>



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Chain of Custody

Laboratory Number: **12-056**

Company: **Parametrix**
 Project Number: **553-8472-009**
 Project Name: **Rocky Top Environmental LPL**
 Project Manager: **Laura Lee, Mike Brady**
 Sampled by:

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (PHS analysis 5 Days)
 _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Activity, Bacterials, TDS	Chlorine, Coliform	Arsenic	TOC	Dissolved Metals (Fe, Mn, Mg, Ca, K, Na)	Total Metals (Pb, Mn, Mg)
11	MW-9D	12/12/05	1540	Water	6	X	X	X	X	X	X
12	MW-10D	12/13/05	1545	Water	6	X	X	X	X	X	X
	Leachate Pond	12/14/05		Water	5	X	X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
	Parametrix	12/14/05	1430	Additional MGR/MD volumes taken @ MW-55
	OSI	12/14/05	1430	

Appendix C

Fourth Quarter 2025
Data Quality Evaluation

DATE: December 22, 2025
TO: Project File
FROM: Sally Nguyen
SUBJECT: Fourth Quarter 2025 (A) Data Quality Evaluation
CC: Mike Brady
PROJECT NUMBER: 553-8472-009
PROJECT NAME: DTG Yakima Limited Purpose Landfill

A data quality evaluation was conducted for the Fourth Quarter 2025 (A) sampling event at the DTG Yakima Limited Purpose Landfill (LPL). Samples were collected on October 21 and 22, by Parametrix under contract to DTG. The samples were analyzed by OnSite Environmental (OnSite) under the associated work orders:

- [Work Order 2510-332](#) (MW-1S, MW-5S, MW-6S, MW-11S, MW-7D, MW-8D, MW-9D, MW-10D, MW-13S): Wet Chemistry, Dissolved metals, Total metals.
- [Work Order 2510-333](#) (MW-1S, MW-5S, MW-6S, MW-11S, MW-7D, MW-8D, MW-9D, MW-10D, MW-13S, Trip Blank): VOCs, Total Petroleum Hydrocarbons (TPH-Gx, TPH-Dx) (SA wells only), Nitrate.
 - Nitrate samples were subcontracted to Anatek Labs (Anatek) under Work Orders YFJ0239 and YFJ0250.

The data were evaluated in accordance with EPA guidance (EPA 2020a, 2020b, and 2009) at a Stage 2A level. Sample MW-13S is a field duplicate of MW-11S, and extra sample volume to be tested for quality control analyses were collected at well MW-11S.

Field Narrative

Groundwater sampling field data sheets were provided by Parametrix.

Laboratory Case Narrative

Samples collected on October 21 and 22, 2025. Nitrate samples were received by Anatek on October 21 at 16:53 and October 22 at 13:40, and the remainder of samples were received by OnSite on October 22 at 16:53. All samples were maintained at the laboratory at a temperature of 2 to 6 degrees Celsius.

Work Orders 2510-032

Wet Chemistry (Total Alkalinity, Bicarbonate, TDS, Chloride, Sulfate, Ammonia, TOC)

The sample(s) were prepared and analyzed within the recommended holding times.

The method blank(s) were clean at the reporting limits.

The laboratory duplicate RPDs were within control limits.



The matrix spike (MS)/matrix spike duplicate (MSD) recoveries and relative percent differences (RPDs) were within control limits.

The spike blank percent recoveries were within control limits.

Total and Dissolved Metals (EPA Method 6010D)

The sample(s) were digested and analyzed within the recommended holding times.

The method blank(s) were clean at the reporting limits.

The laboratory duplicate RPDs were within control limits.

The MS/MSD recoveries and RPDs were within control limits.

The spike blank percent recoveries were within control limits.

Work Order 2510-333

Volatiles (EPA Method SW8260D)

The sample(s) were analyzed within the recommended holding times.

No VOCs were detected in the trip blank.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The MS/MSD recoveries and RPDs were within control limits.

Total Petroleum Hydrocarbons (NWTPH-Gx and Dx) – SA Wells Only

The sample(s) were prepared and analyzed within the recommended holding times.

No gasoline-range hydrocarbons were detected in the trip blank.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The duplicate RPDs were within control limits.

The MS/MSD recoveries and RPDs were within control limits,

Anatek Work Order YFJ0239 (subcontracted)

Nitrate (EPA Method Hach 10206)

The sample(s) were analyzed within the recommended holding times.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

The MS/MSD percent recoveries and RPDs were within control limits.

Anatek Work Order YFJ0250 (subcontracted)



Nitrate (EPA Method Hach 10206)

The sample(s) were analyzed within the recommended holding times.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

The MS/MSD percent recoveries and RPDs were within control limits.

Field Duplicate Evaluation

Relative Percent Differences (RPDs) were calculated for the results of sample MW-11S and duplicate MW-13S. Field duplicate Relative Percent Difference calculations are included in Attachment A.

The duplicate percent RPDs were within control limits for all analytes.

Data Qualification

No data were qualified.



References

EPA (U.S. Environmental Protection Agency). 2002. Guidance on Environmental Data Verification and Data Validation. EPA QA/G-8. EPA240R-02/004.

EPA. 2020a. National Functional Guidelines for Inorganic Superfund Data Review. EPA 540R- 2017-001. November.

EPA. 2020b. National Functional Guidelines for Organic Superfund Data Review. EPA 542-R-20-006. November.



Attachment A

Third Quarter (A) 2025 Field
Duplicate Relative Percent
Difference Calculations

**DTG Yakima LPL Field Duplicate Relative Percent Difference Calculations
553-8472-009**

Fourth Quarter 2025 (A)

Sample Dates: October 21-22, 2025

Sample analyses: On-Site Environmental 2510-332 (Wet Chemistry, Total and Dissolved Metals):
MW-1S, MW-5S, MW-6S, MW-11S, MW-13S, MW-7D, MW-8D, MW-9D, MW-10D

On-Site Environmental 2510-333 (VOCs, TPH (SA wells only)):

MW-1S, MW-5S, MW-6S, MW-11S, MW-13S, MW-7D, MW-8D, MW-9D, MW-10D, Trip Blank

Anatek YFJ0239 (Nitrates):

MW-5S, MW-6S, MW-7D, MW-9D

Anatek YFJ0250 (Nitrates):

MW-1S, MW-11S, MW-13S, MW-8D, MW-10D

MS/MSD extra volume collected at MW-11S

DUP MW-13S collected at MW-11S

Completed by: Sally Nguyen 12/22/2025

Groundwater	sample	duplicate	avg	diff	RPD	=/<25%?	RL	w/in RL?
units = mg/L	MW-11S	MW-13S						
Iron, Total	<0.050	<0.050	n/a	n/a	n/a		0.050	y
Magnesium, Total	15	15	15.00	0	0.0	y	1.0	
Manganese, Total	0.13	0.14	0.14	-0.01	7.4	y	0.010	
Calcium, Dissolved	20	20	20	0	0.0	y	1.1	
Iron, Dissolved	<0.056	<0.056	n/a	n/a	n/a		0.056	y
Magnesium, Dissolved	15	15	15	0	0.0	y	1.1	
Manganese, Dissolved	0.13	0.13	0.130	0	0.0	y	0.011	
Potassium, Dissolved	4.0	4.1	4.1	-0.1	2.5	y	1.1	
Sodium, Dissolved	14	14	14	0	0.0	y	1.1	
Nitrate	0.881	0.908	0.89	-0.027	3.0	y	0.200	
Chloride	7.6	8.0	8	-0.4	5.1	y	2.0	
Sulfate	14	14	14	0	0.0	y	5.0	
TDS	130	160	145	-30	20.7	y	13	
Alkalinity	110	110	110	0	0.0	y	2.0	
Bicarbonate	110	110	110	0	0.0	y	2.0	
Ammonia	0.062	<0.053	0.06	n/a	n/a		0.053	y
TOC	<1.0	<1.0	n/a	n/a	n/a		1.0	y
TPH-Gasoline (ug/L)	<100	<100	n/a	n/a	n/a		100	y
TPH-Diesel	<0.21	<0.21	n/a	n/a	n/a		0.21	y
TPH-Oil	<0.21	<0.21	n/a	n/a	n/a		0.21	y
VOCs	None detected							
Comments:	No data qualified.							

DATE: December 22, 2025
TO: Project File
FROM: Sally Nguyen
SUBJECT: Fourth Quarter 2025 (B) Data Quality Evaluation
CC: Mike Brady
PROJECT NUMBER: 553-8472-009
PROJECT NAME: DTG Yakima Limited Purpose Landfill

A data quality evaluation was conducted for the Fourth Quarter 2025 (B) sampling event at the DTG Yakima Limited Purpose Landfill (LPL). Samples were collected on December 2 through 4, 2025 by Parametrix under contract to DTG. The samples were analyzed by OnSite Environmental (OnSite) under the associated work orders:

- Work Order 2512-055 (MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-6S, MW-11S, MW-13S, MW-7D, MW-8D, MW-9D, MW-10D, Trip Blank): VOCs, Total Petroleum Hydrocarbons (NWTPH-Gx and -Dx) (SA Wells Only).
 - Work Order 2512-055B: Nitrate samples subcontracted to Anatek Labs (Anatek) under Work Orders YFLO071 and YFLO091.
- Work Order 2512-056 (MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-6S, MW-11S, MW-13S, MW-7D, MW-8D, MW-9D, MW-10D): Wet Chemistry, Total and Dissolved Metals.

The data were evaluated in accordance with EPA guidance (EPA 2020a, 2020b, and 2009) at a Stage 2A level. Sample MW-13S is a field duplicate of MW-6S, and extra sample volume to be tested for quality control analyses were collected at well MW-6S.

Field Narrative

Groundwater sampling field data sheets were provided by Parametrix.

Laboratory Case Narrative

Samples were collected on December 2 through 4, 2025. Nitrate samples were received by Anatek on December 3 at 8:14 and December 4 at 11:21; the remainder of samples were received by OnSite on December 4, 2025 at 14:30. They were maintained at the laboratory at a temperature of 2 to 6 degrees Celsius.

Work Order 2512-055

Volatiles (EPA Method SW8260D)

The sample(s) were analyzed within the recommended holding times.

No VOCs were detected in the trip blank.

The surrogate percent recoveries were within control limits.



The method blank(s) were clean at the reporting limits.

The percent recovery for chloromethane is outside the control limits (high) in the spike blank and was I-flagged by the laboratory accordingly. Chloromethane was not detected in any samples, therefore, no data will be qualified.

The percent recovery for carbon disulfide is outside the control limits (high) in the matrix spike (MS) and was I-flagged by the laboratory accordingly. Since there were no detections for carbon disulfide in the samples, no data will be qualified.

The matrix spike duplicate (MSD) recoveries and relative percent differences (RPDs) were within control limits.

Total Petroleum Hydrocarbons (NWTPH-Gx and Dx) – SA Wells Only

The sample(s) were prepared and analyzed within the recommended holding times.

No gasoline-range hydrocarbons were detected in the trip blank.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The duplicate RPDs were within control limits.

The MS/MSD recoveries and duplicate RPDs were within control limits.

Work Order 2512-055B

Anatek Work Order YFL0071 (subcontracted)

Nitrate (EPA Method Hach 10206)

The method blank(s) were clean at the reporting limits.

The percent recovery of the laboratory control sample was within control limits.

The matrix spike and matrix spike duplicate recoveries and relative percent differences (RPDs) were within control limits.

Anatek Work Order YFL0091 (subcontracted)

Nitrate (EPA Method Hach 10206)

The method blank(s) were clean at the reporting limits.

The percent recovery of the laboratory control sample was within control limits.

The matrix spike and matrix spike duplicate recoveries and relative percent differences (RPDs) were within control limits.

Work Order 2512-056

Wet Chemistry (Total Alkalinity, Bicarbonate, TDS, Chloride, Sulfate, Ammonia, TOC)

The sample(s) were prepared and analyzed within the recommended holding times.

The method blank(s) were clean at the reporting limits.



The duplicate RPDs were within control limits.

The MS/MSD recoveries and RPDs were within control limits.

The spike blank percent recoveries were within control limits.

TDS for sample MW-2S was found to have poor recovery during the initial analysis and was reanalyzed outside of holding time. Both values are reported. The reanalyzed result was more typical with historical values and will be presented with an "H" qualifier due to being out of hold.

Total and Dissolved Metals (EPA Method 6010D)

The sample(s) were digested and analyzed within the recommended holding times.

The method blank(s) were clean at the reporting limits.

The duplicate RPDs were within control limits.

The MS/MSD recoveries and RPDs were within control limits.

The spike blank percent recoveries were within control limits.

Field Duplicate Evaluation

Relative Percent Differences (RPDs) were calculated for the results of sample MW-6S and duplicate MW-13S. Field duplicate RPD calculations are included in Attachment A.

The duplicate percent RPDs were within control limits for all analytes.

Data Qualification

- Flag the TDS result for MW-2S "H" due to out-of-hold analysis.



References

EPA (U.S. Environmental Protection Agency). 2002. Guidance on Environmental Data Verification and Data Validation. EPA QA/G-8. EPA240R-02/004.

EPA. 2020a. National Functional Guidelines for Inorganic Superfund Data Review. EPA 540R- 2017-001. November.

EPA. 2020b. National Functional Guidelines for Organic Superfund Data Review. EPA 542-R-20-006. November.



Attachment A

Third Quarter (B) 2025 Field
Duplicate Relative Percent
Difference Calculations

DTG Yakima LPL Field Duplicate Relative Percent Difference Calculations
553-8472-009

Fourth Quarter 2025 (B)

Sample Dates: December 2-4, 2025

Sample analyses: On-Site Environmental 2512-55 (VOCs, TPH (SA wells only)):
 MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-6S, MW-11S, MW-13S, MW-7D, MW-8D, MW-9D, MW-10D,
 Trip Blank

On-Site Environmental 2512-056 (Wet Chemistry, Total and Dissolved Metals):
 MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-6S, MW-11S, MW-13S, MW-7D, MW-8D, MW-9D, MW-10D

Anatek YFLO071 (Nitrate):
 MW-5S, MW-11S, MW-7D, MW-9D

Anatek YFLO091 (Nitrate):
 MW-1S, MW-2S, MW-3S, MW-4S, MW-6S, MW-13S, MW-8D, MW-10D

MS/MSD extra volume collected at MW-6S

DUP MW-13S collected at MW-6S

Completed by: Sally Nguyen 12/30/2025

Groundwater	sample	duplicate	avg	diff	RPD	=/<25%?	RL	w/in RL?
units = mg/L	MW-6S	MW-13S						
Iron, Total	<0.050	<0.050	n/a	n/a	n/a		0.050	y
Magnesium, Total	28	30	29.00	-2	6.9	y	1.0	
Manganese, Total	<0.010	<0.010	n/a	n/a	n/a		0.010	y
Calcium, Dissolved	46	46	46.00	0	0.0	y	1.1	
Iron, Dissolved	<0.056	<0.056	n/a	n/a	n/a		0.056	y
Magnesium, Dissolved	32	32	32.00	0	0.0	y	1.1	
Manganese, Dissolved	<0.011	<0.011	n/a	n/a	n/a		0.011	y
Potassium, Dissolved	4.4	4.3	4.35	0.1	2.3	y	1.1	
Sodium, Dissolved	17	17	17.00	0	0.0	y	1.1	
Nitrate	15.4	15.5	15.45	-0.1	0.6	y	2.00	
Chloride	67	73	70.00	-6	8.6	y	2.0	
Sulfate	64	64	64.00	0	0.0	y	20	
TDS	410	440	425.00	-30	7.1	y	13	
Alkalinity	94	88	91.00	6	6.6	y	2.0	
Bicarbonate	94	88	91.00	6	6.6	y	2.0	
Ammonia	<0.053	<0.053	n/a	n/a	n/a		0.053	y
TOC	3.4	3.4	3.40	0	0.0	y	1.0	
TPH-Gasoline (ug/L)	<100	<100	n/a	n/a	n/a		100	y
TPH-Diesel	<0.24	<0.24	n/a	n/a	n/a		0.24	y
TPH-Oil	<0.24	<0.24	n/a	n/a	n/a		0.24	y

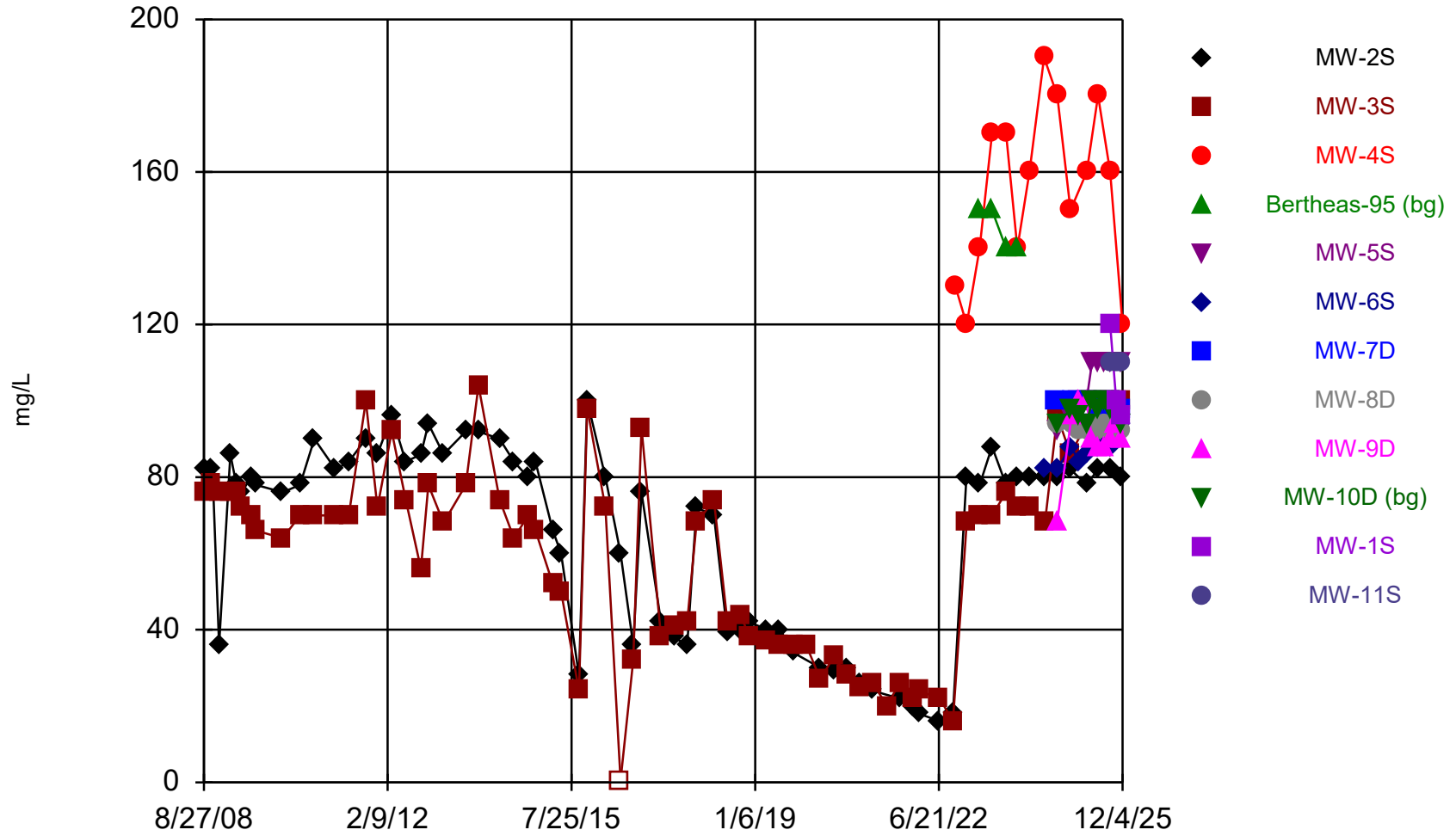
VOCs None detected

Comments: No data were qualified.

Appendix D

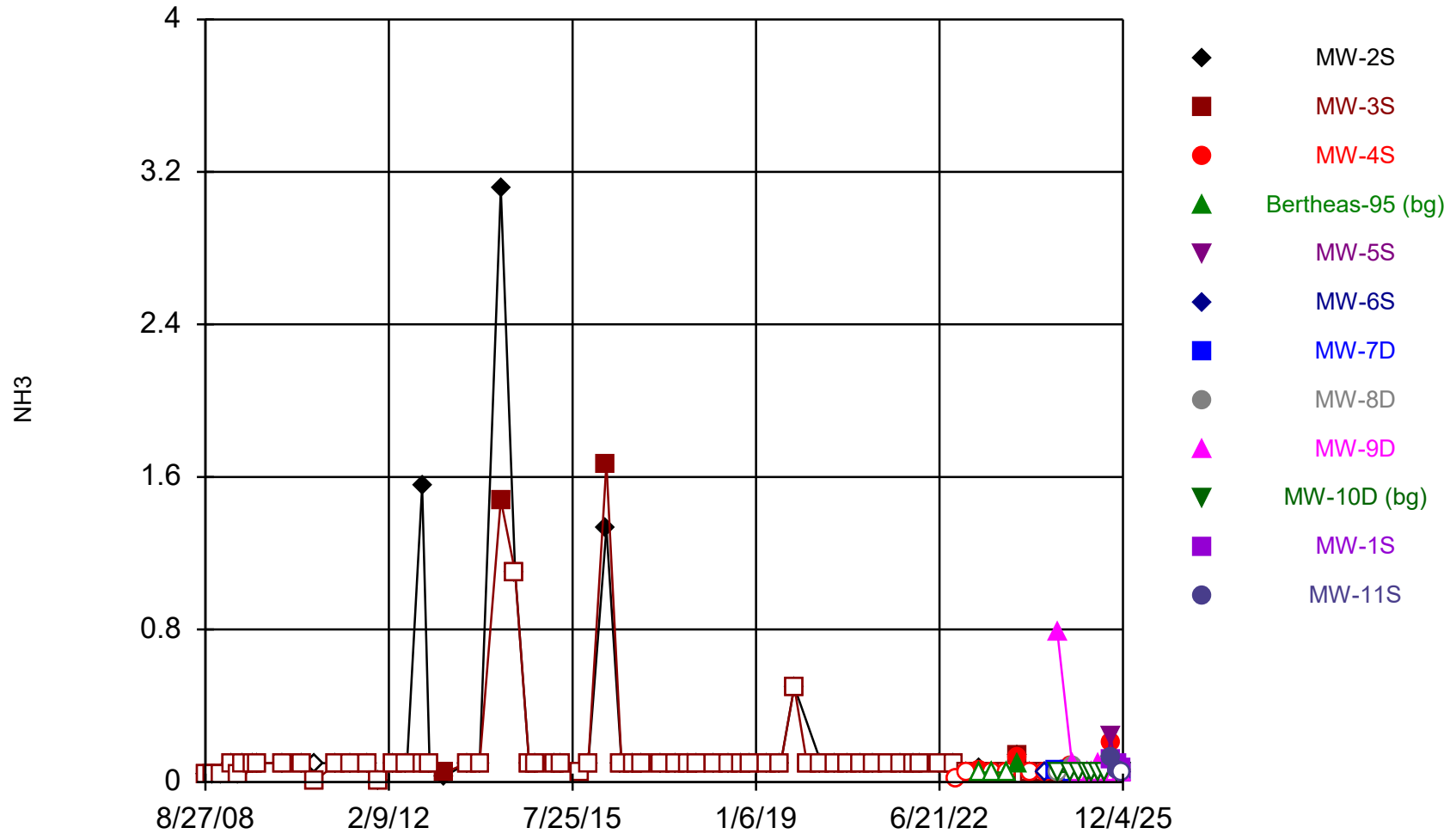
Time-Series Plots

Time Series



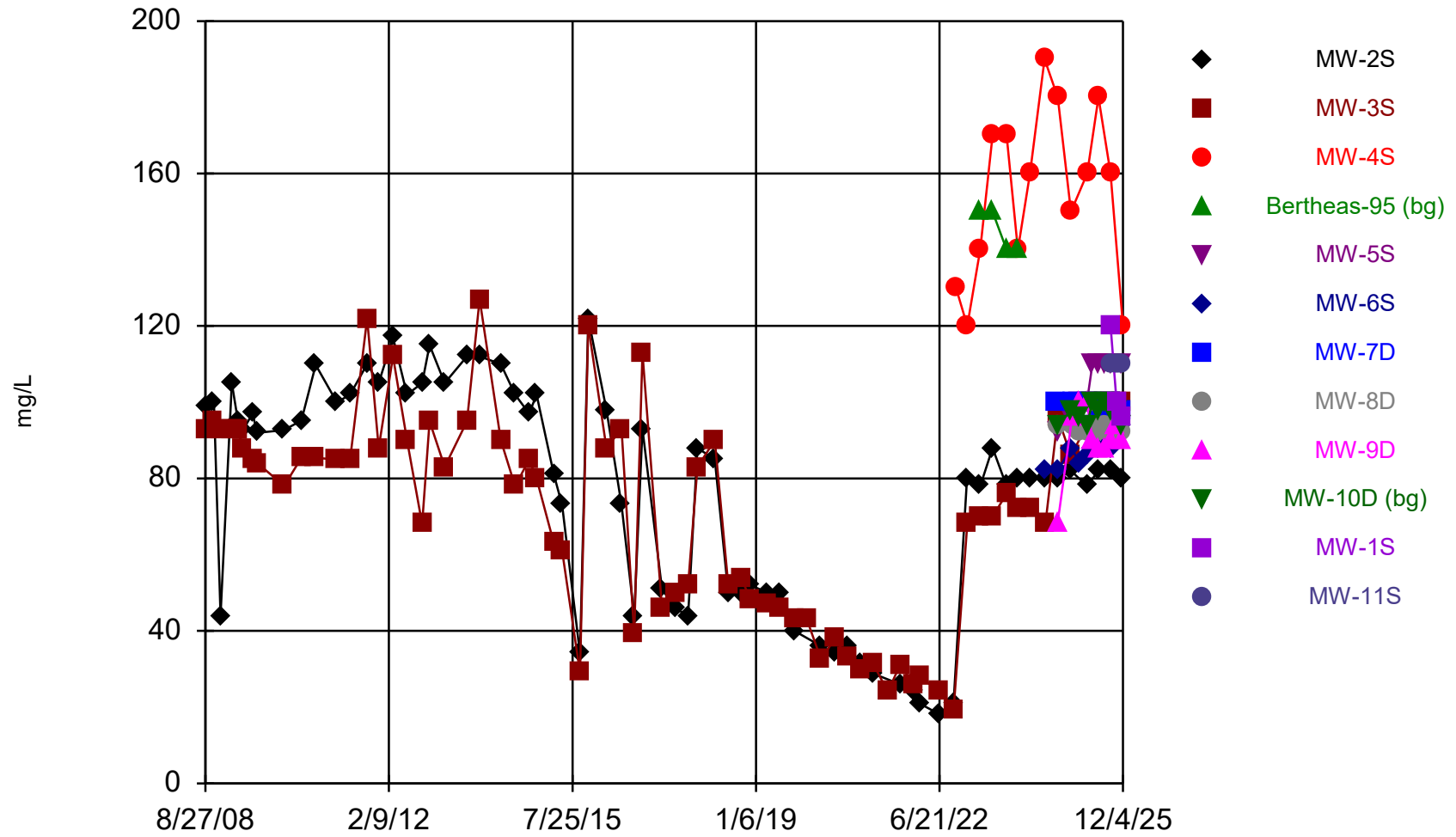
Constituent: Alkalinity, Total Analysis Run 3/17/2026 10:30 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



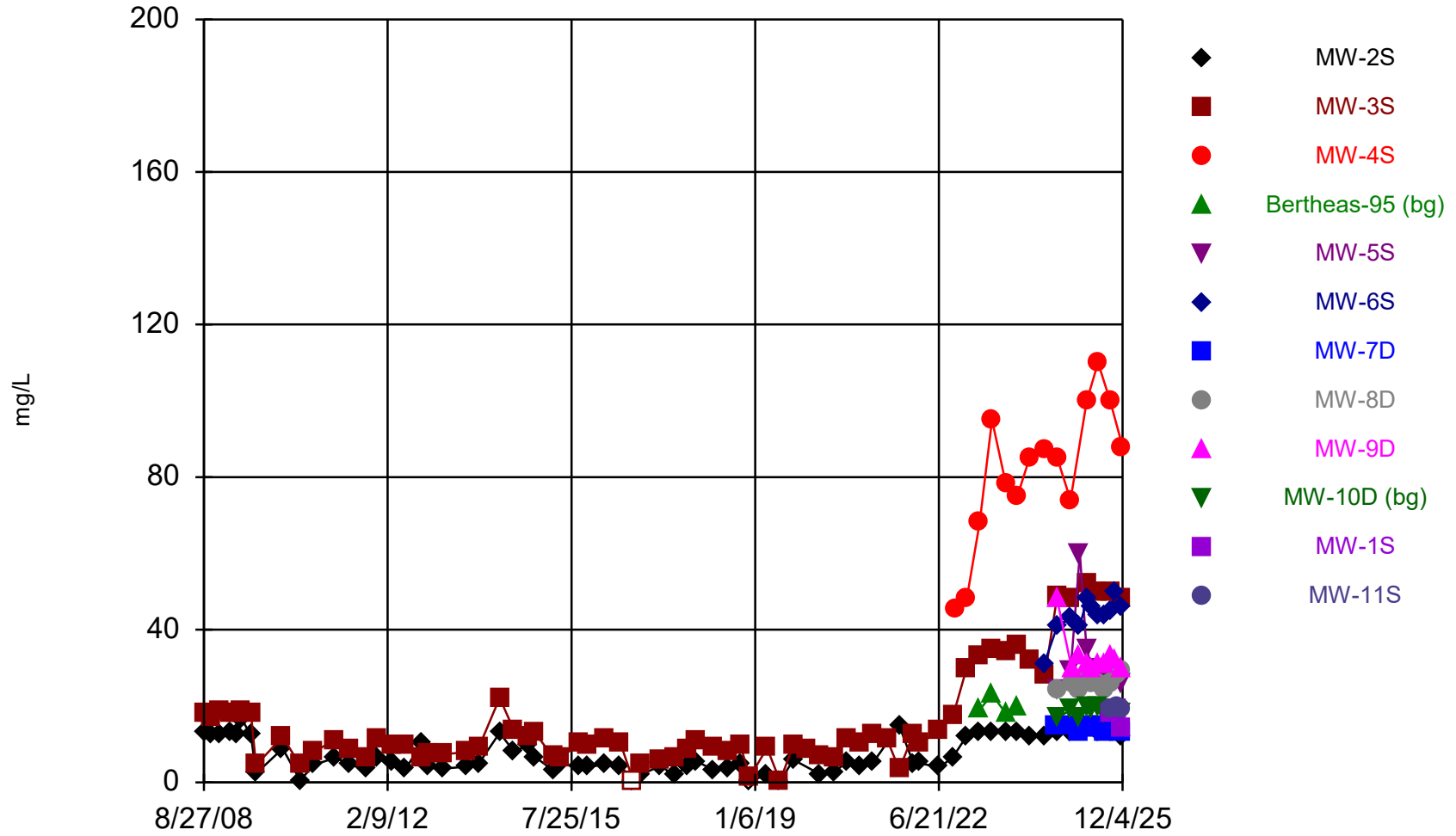
Constituent: Ammonia Analysis Run 3/17/2026 10:30 AM View: TSPs
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Time Series



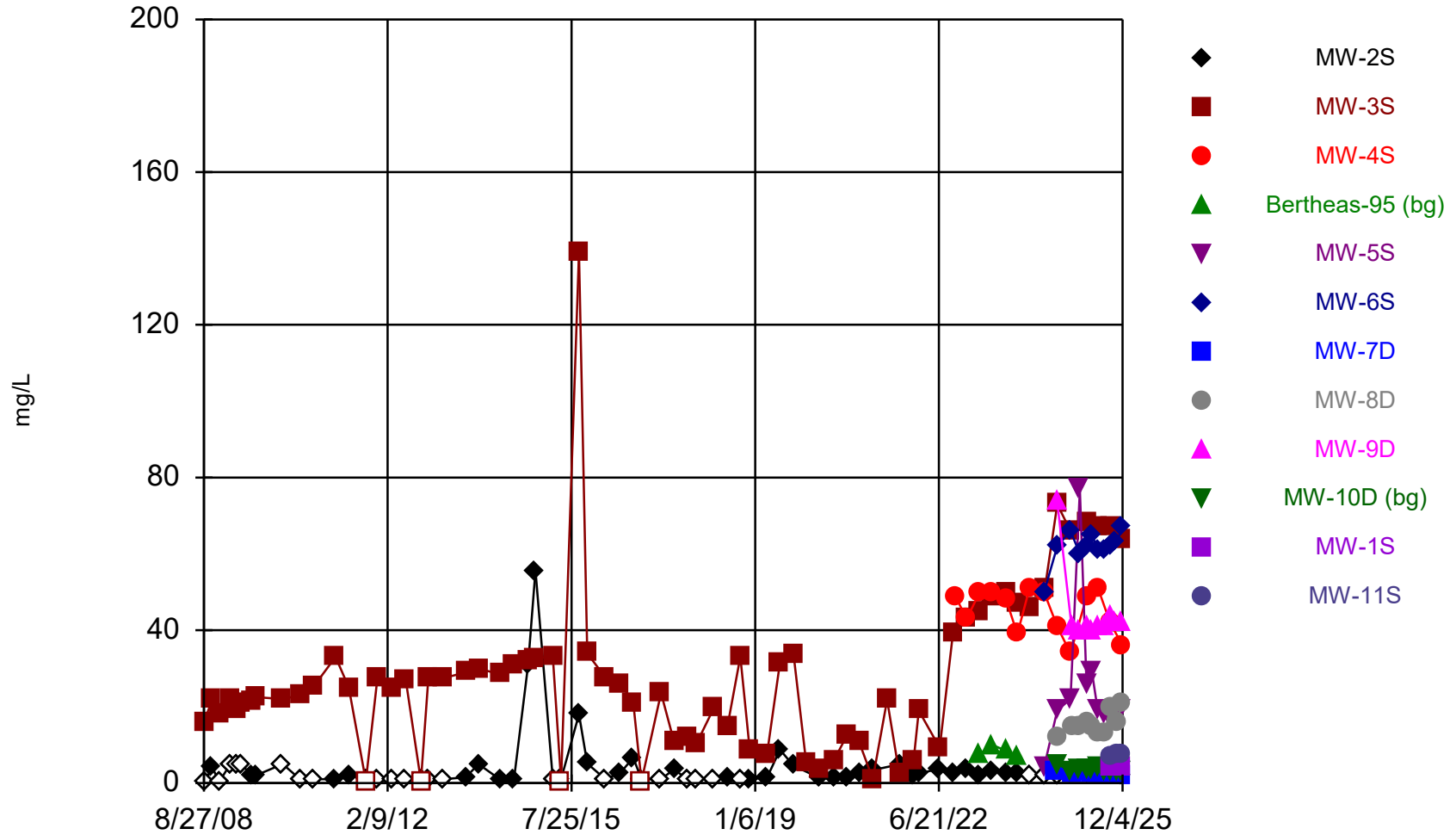
Constituent: Bicarbonate Analysis Run 3/17/2026 10:30 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



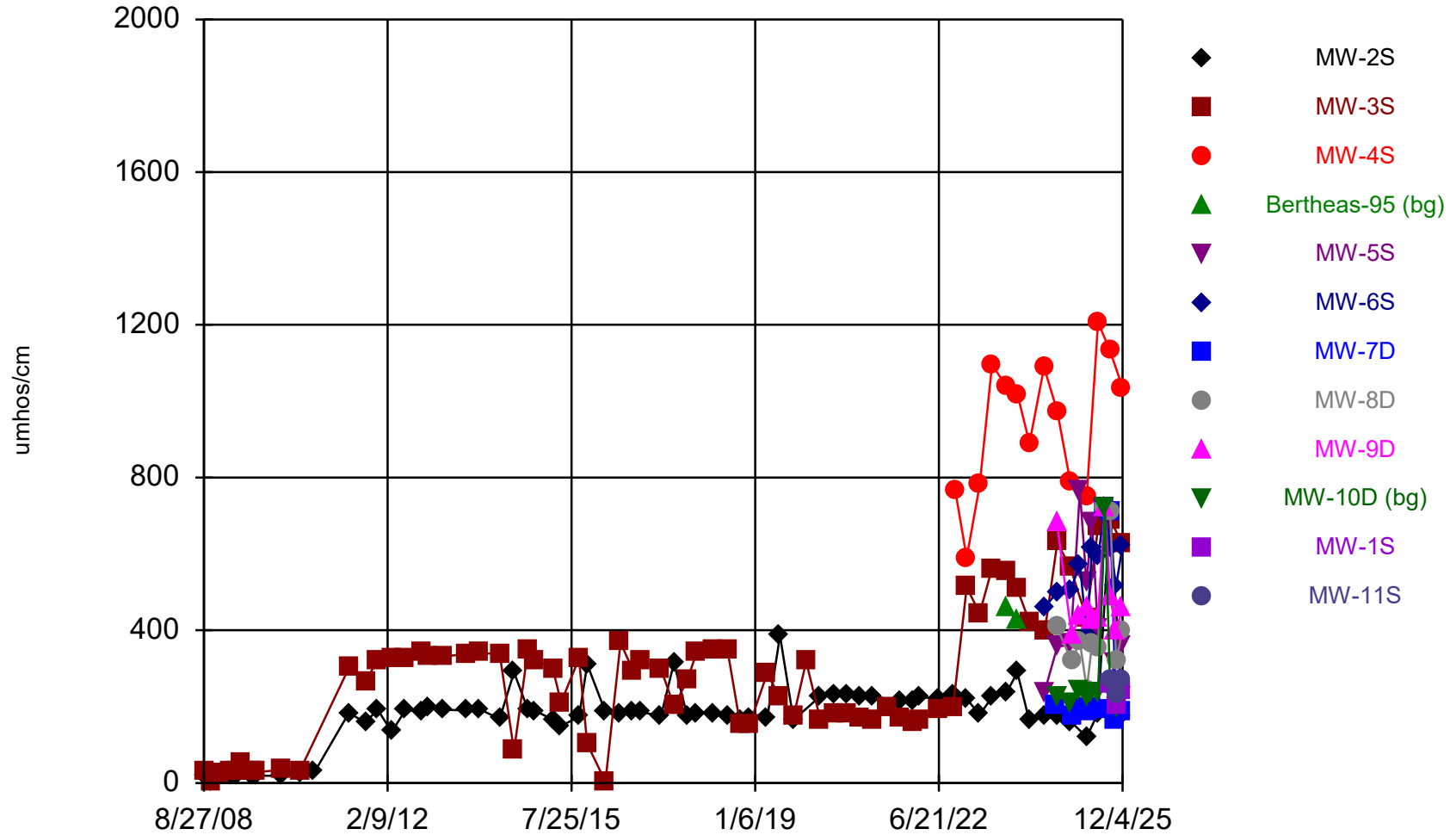
Constituent: Calcium, Dissolved Analysis Run 3/17/2026 10:30 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



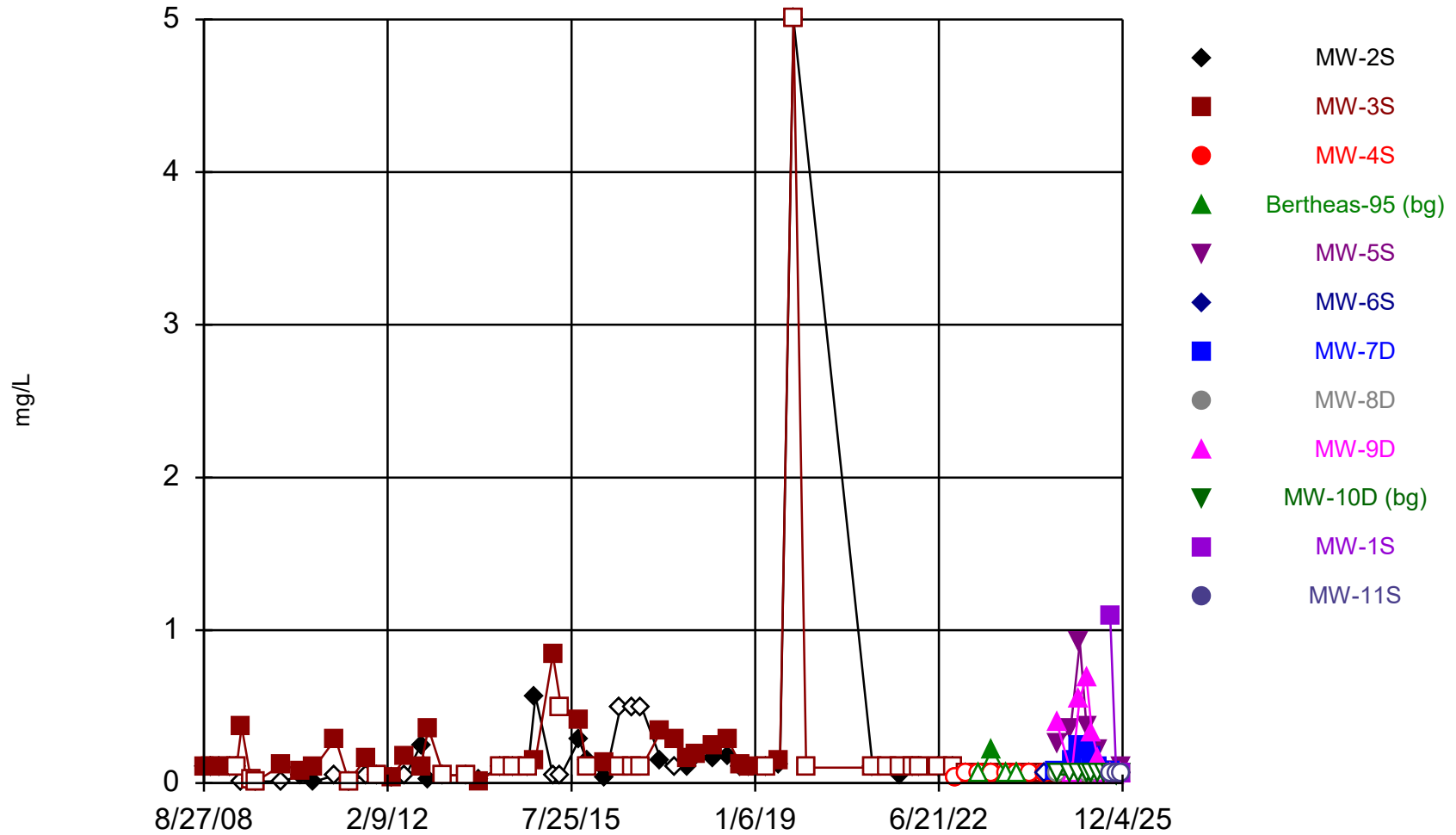
Constituent: Chloride Analysis Run 3/17/2026 10:30 AM View: TSPs
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Time Series



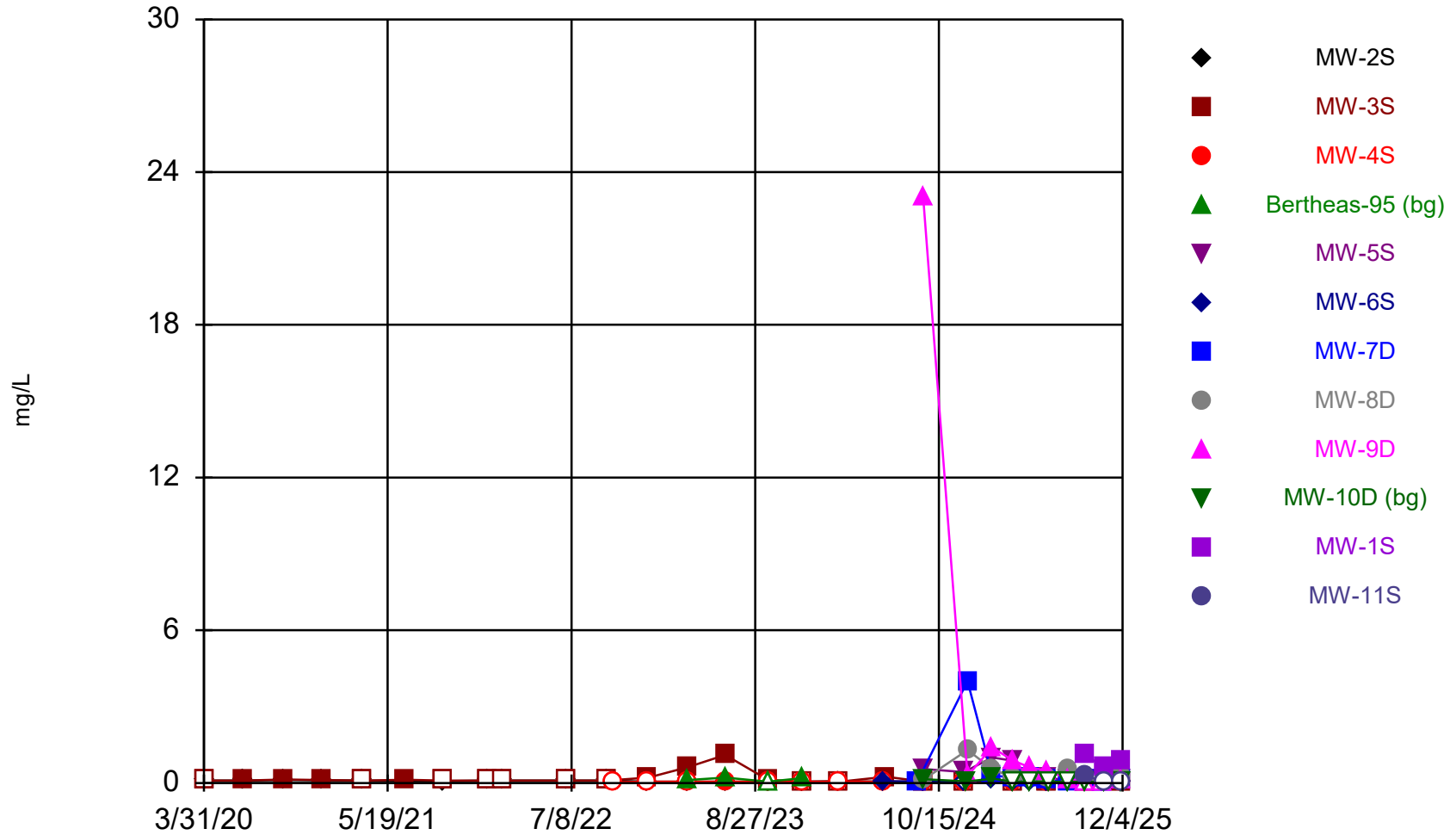
Constituent: Conductivity Analysis Run 3/17/2026 10:30 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



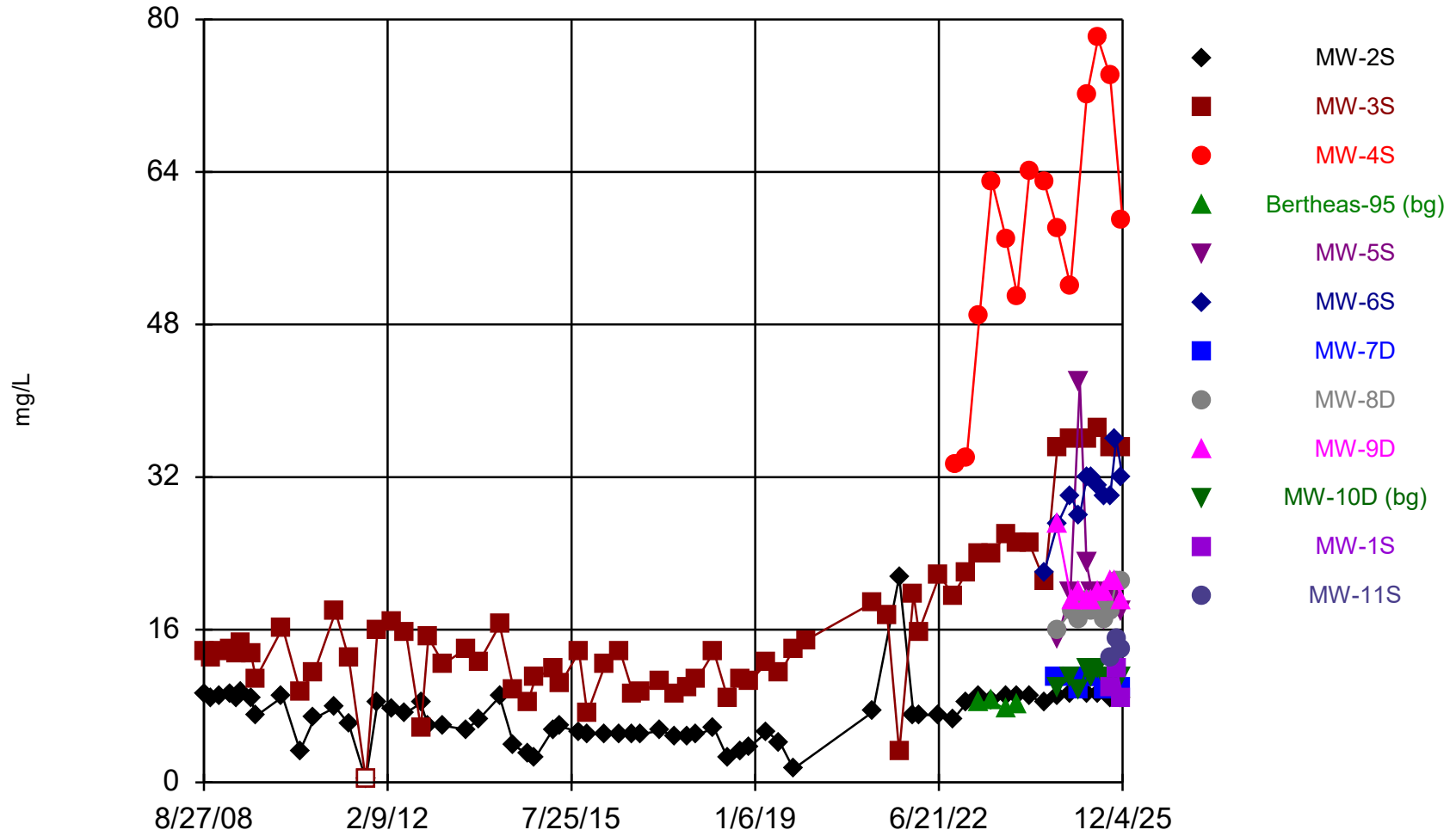
Constituent: Iron, Dissolved Analysis Run 3/17/2026 10:30 AM View: TSPs
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Time Series



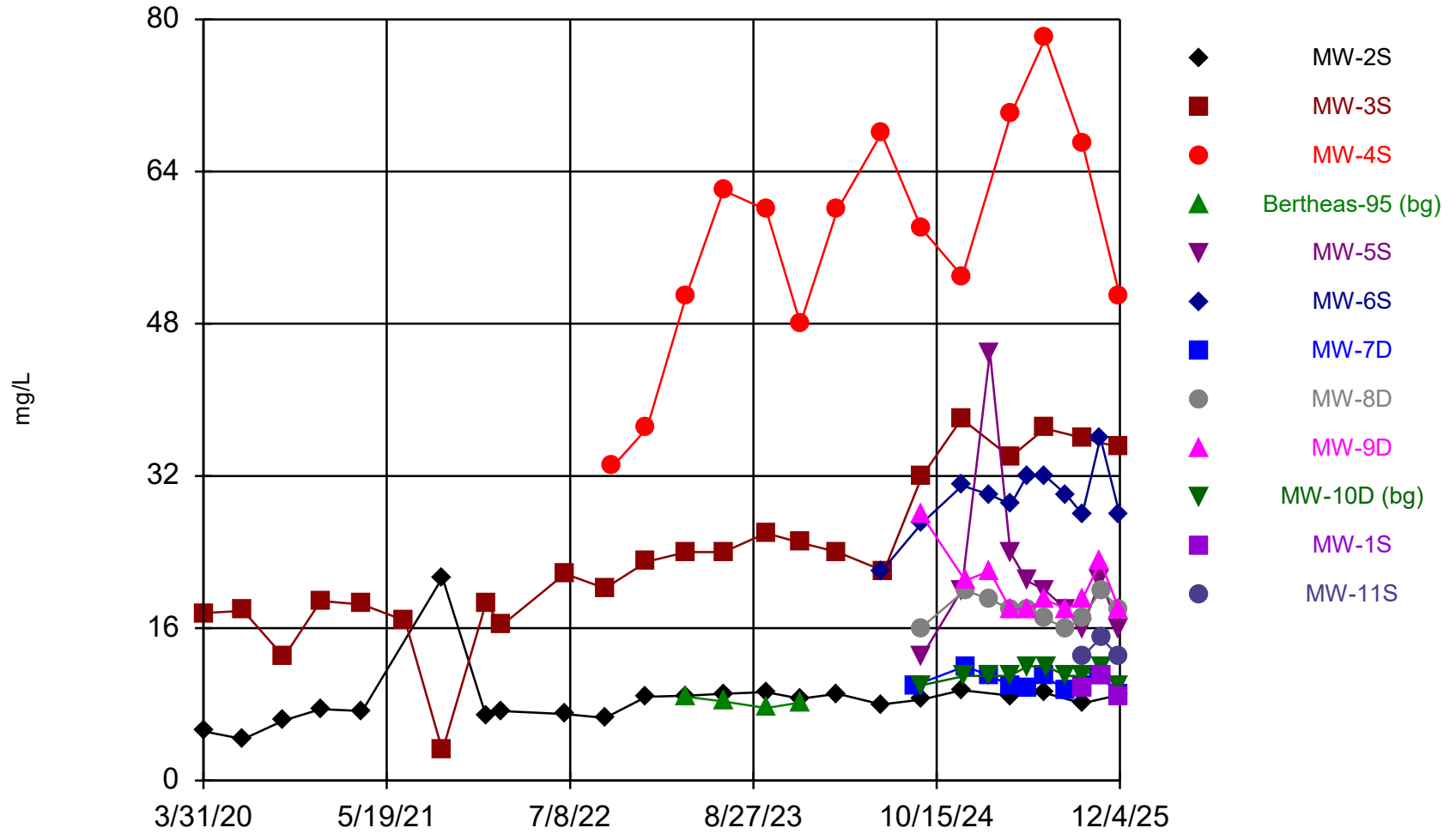
Constituent: Iron, Total Analysis Run 3/17/2026 10:30 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



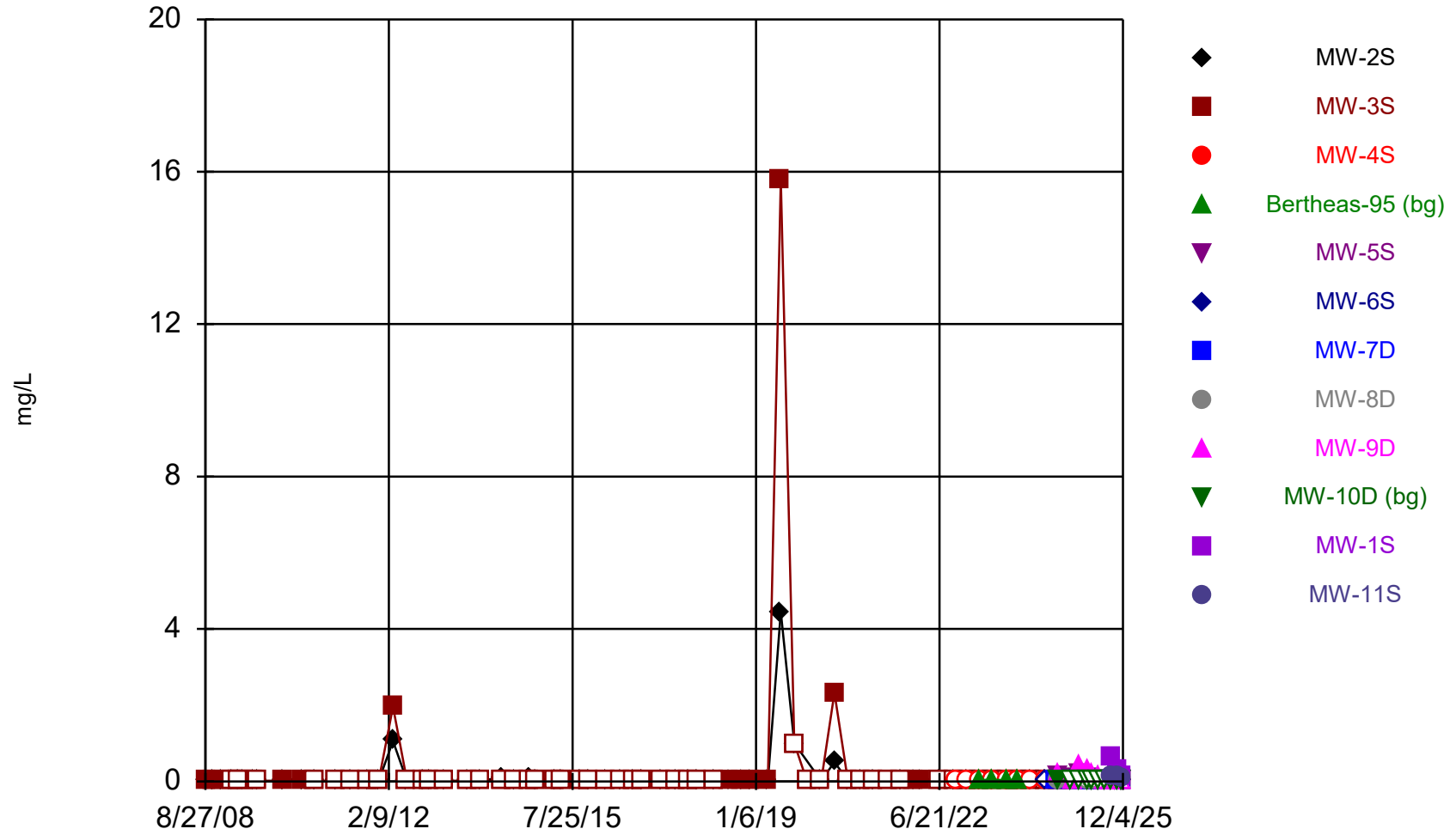
Constituent: Magnesium, Dissolved Analysis Run 3/17/2026 10:30 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



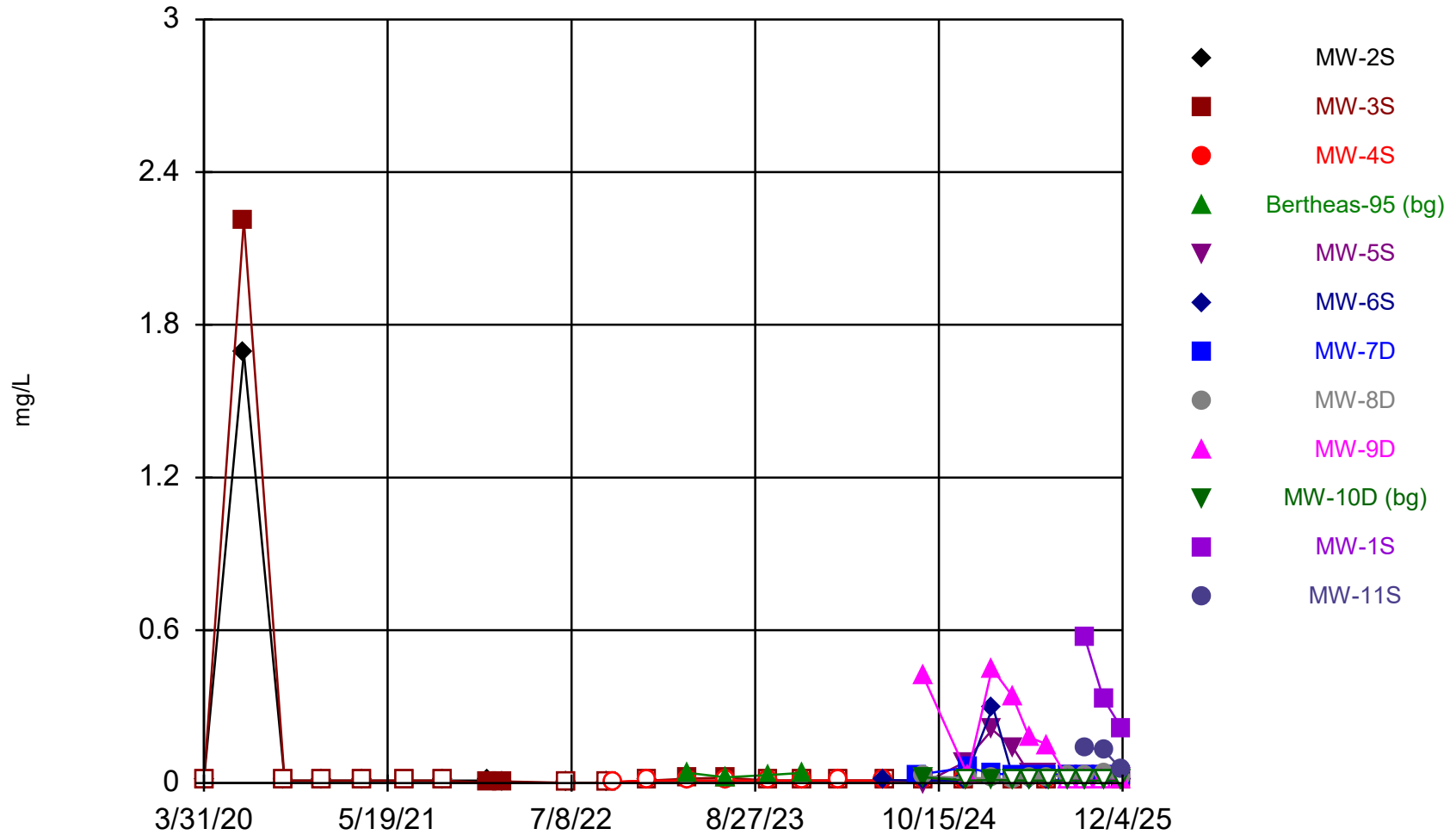
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Time Series



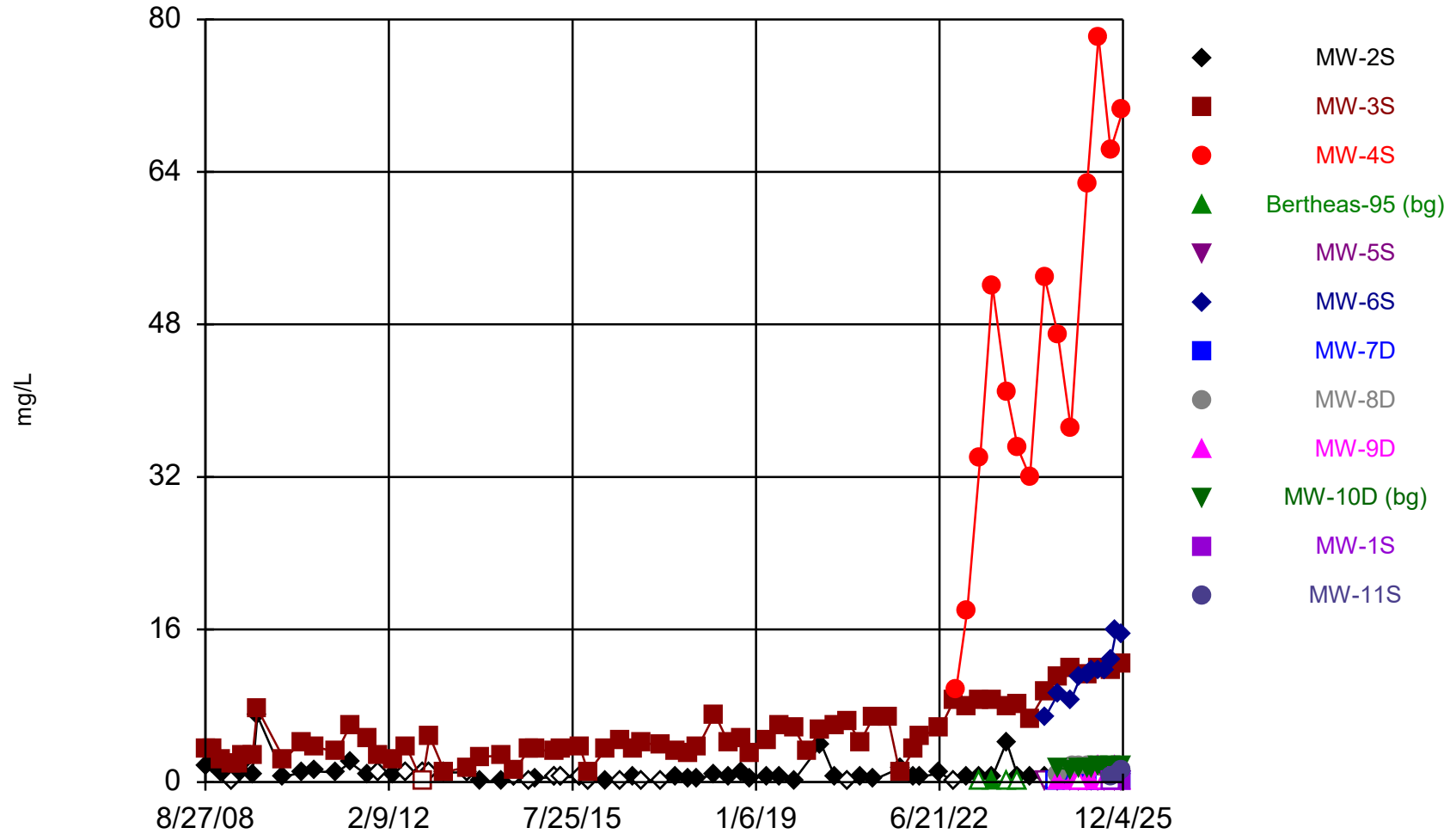
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Time Series



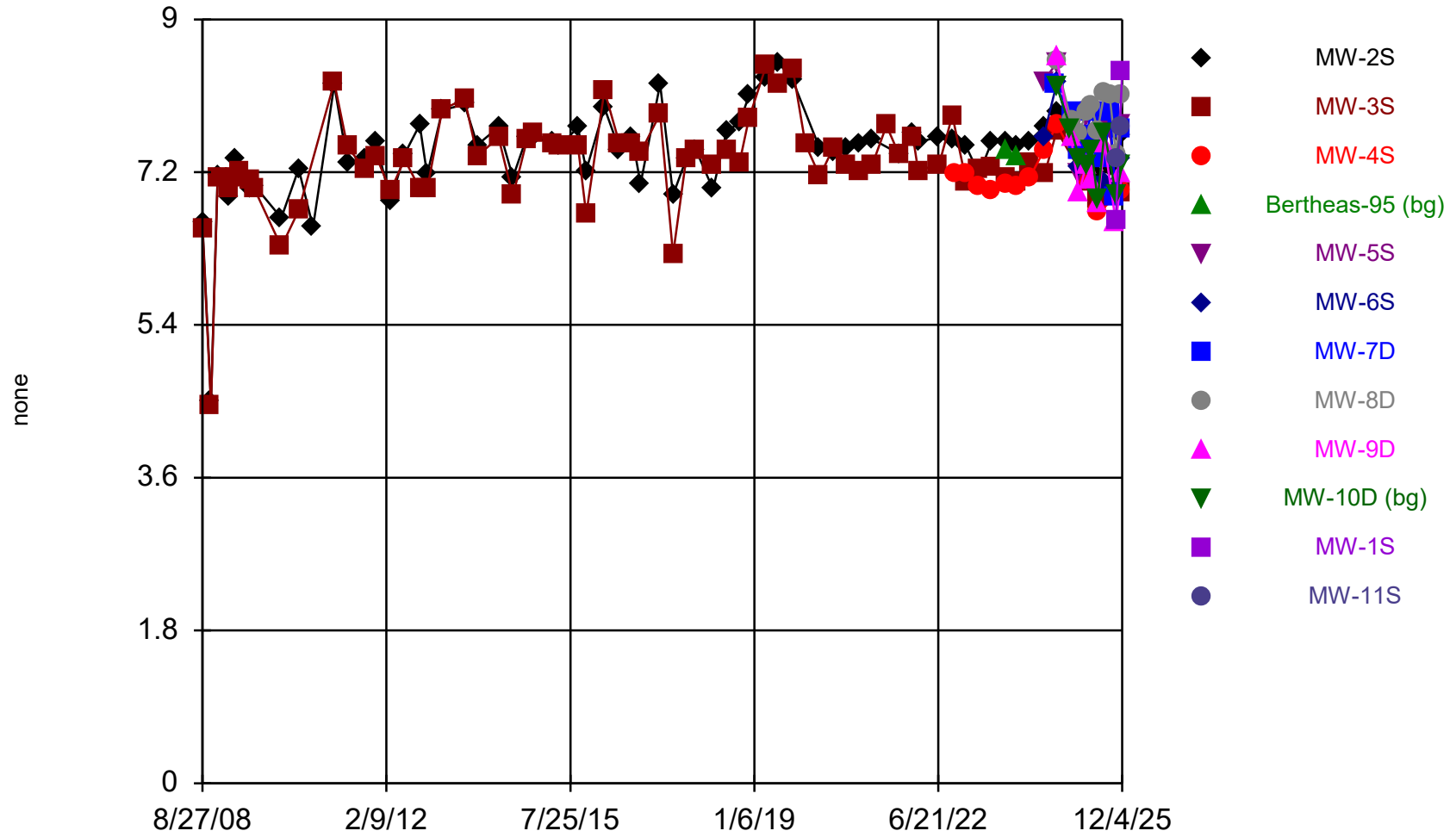
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Time Series



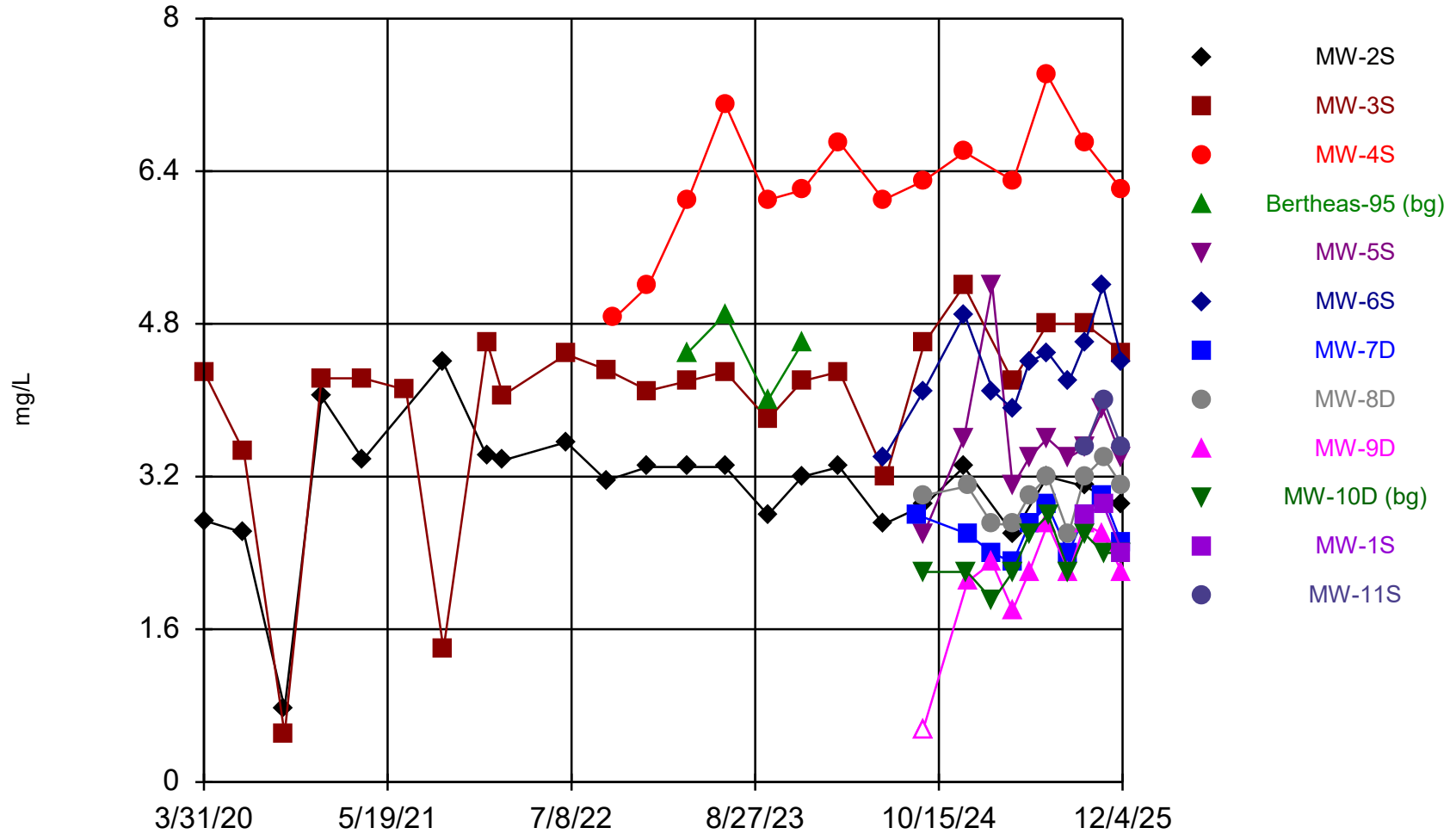
Constituent: Nitrate Analysis Run 3/17/2026 10:30 AM View: TSPs
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Time Series



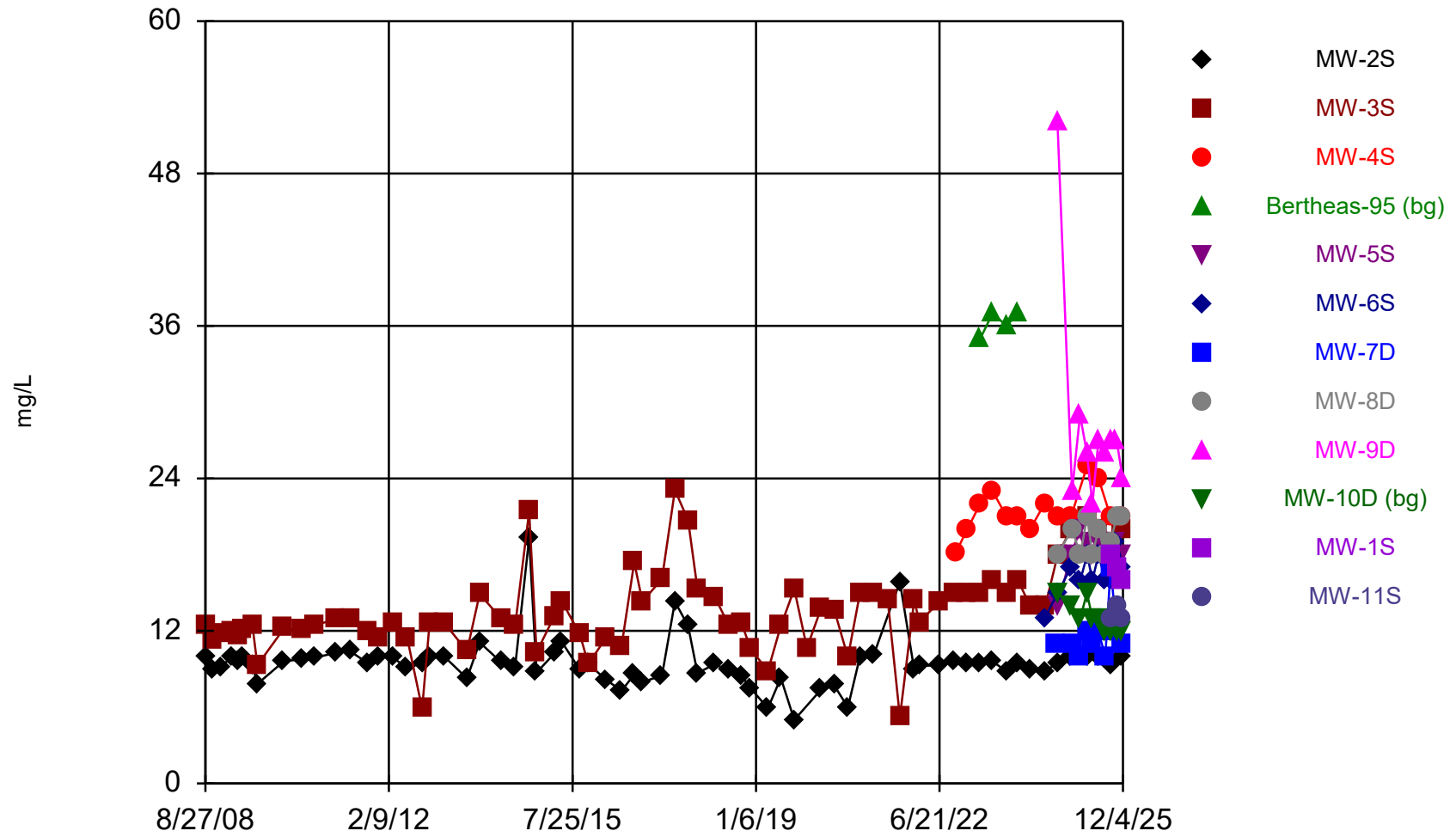
Constituent: pH Analysis Run 3/17/2026 10:30 AM View: TSPs
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Time Series



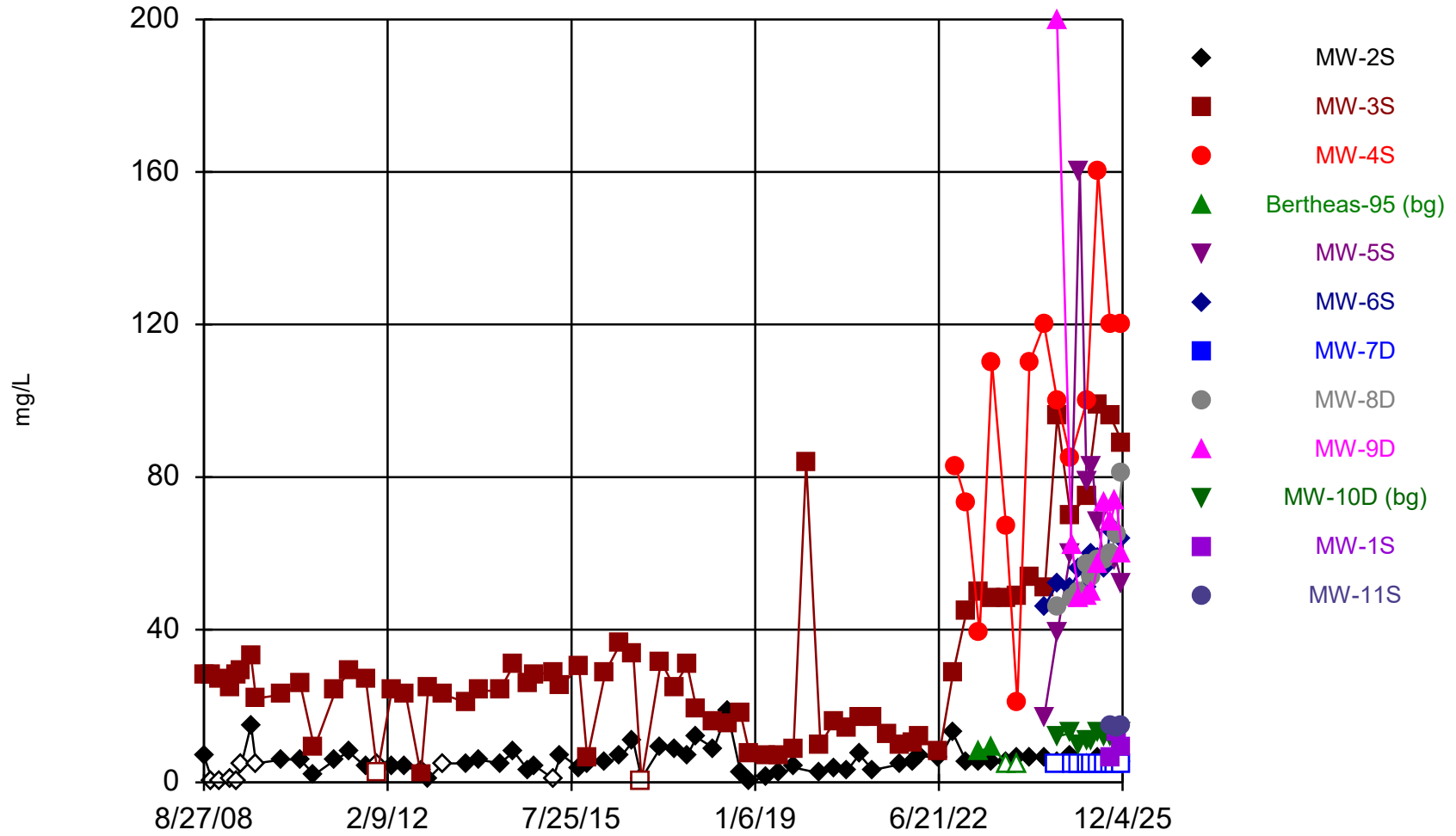
Constituent: Potassium, Dissolved Analysis Run 3/17/2026 10:31 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



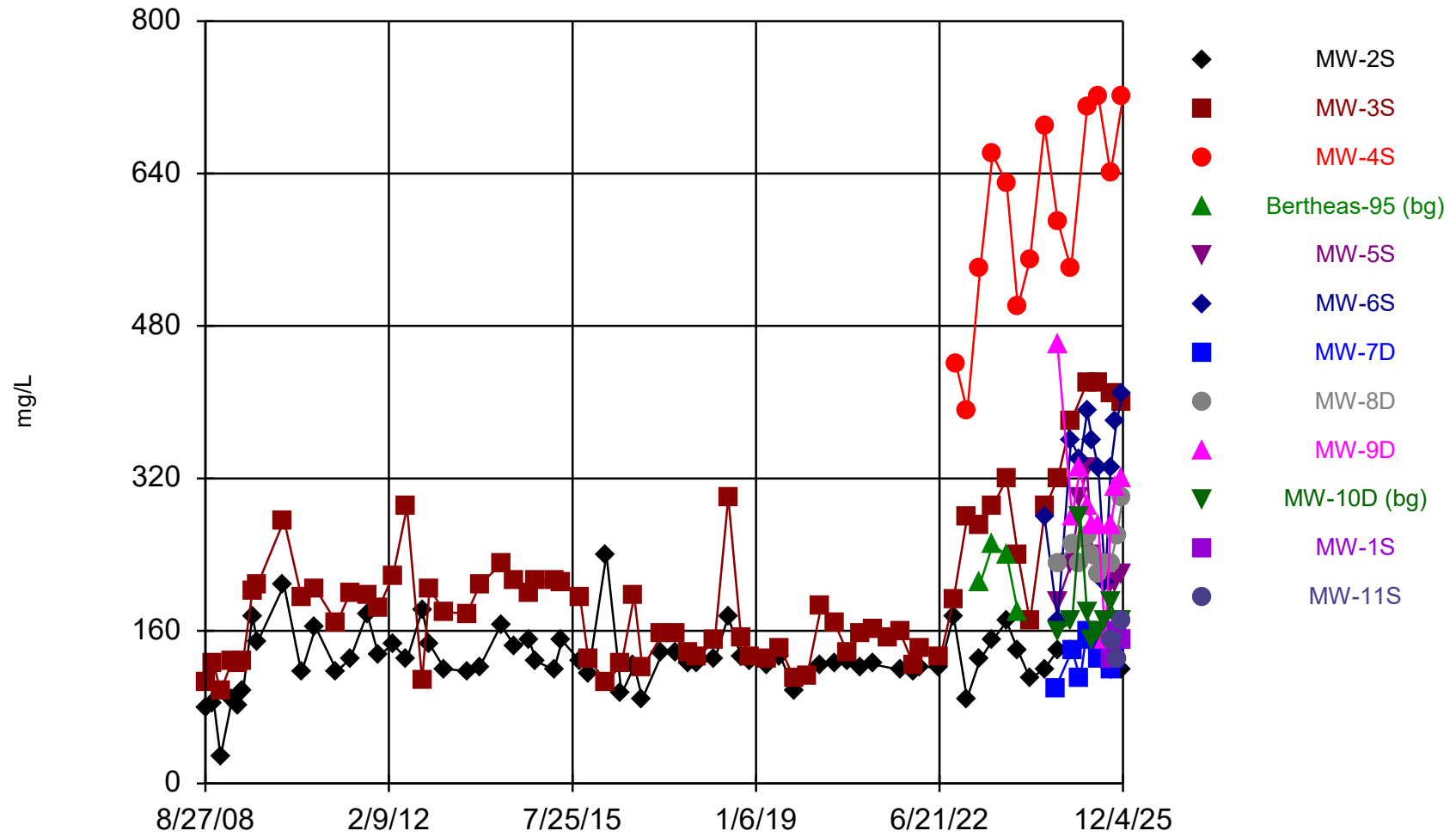
Constituent: Sodium, Dissolved Analysis Run 3/17/2026 10:31 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



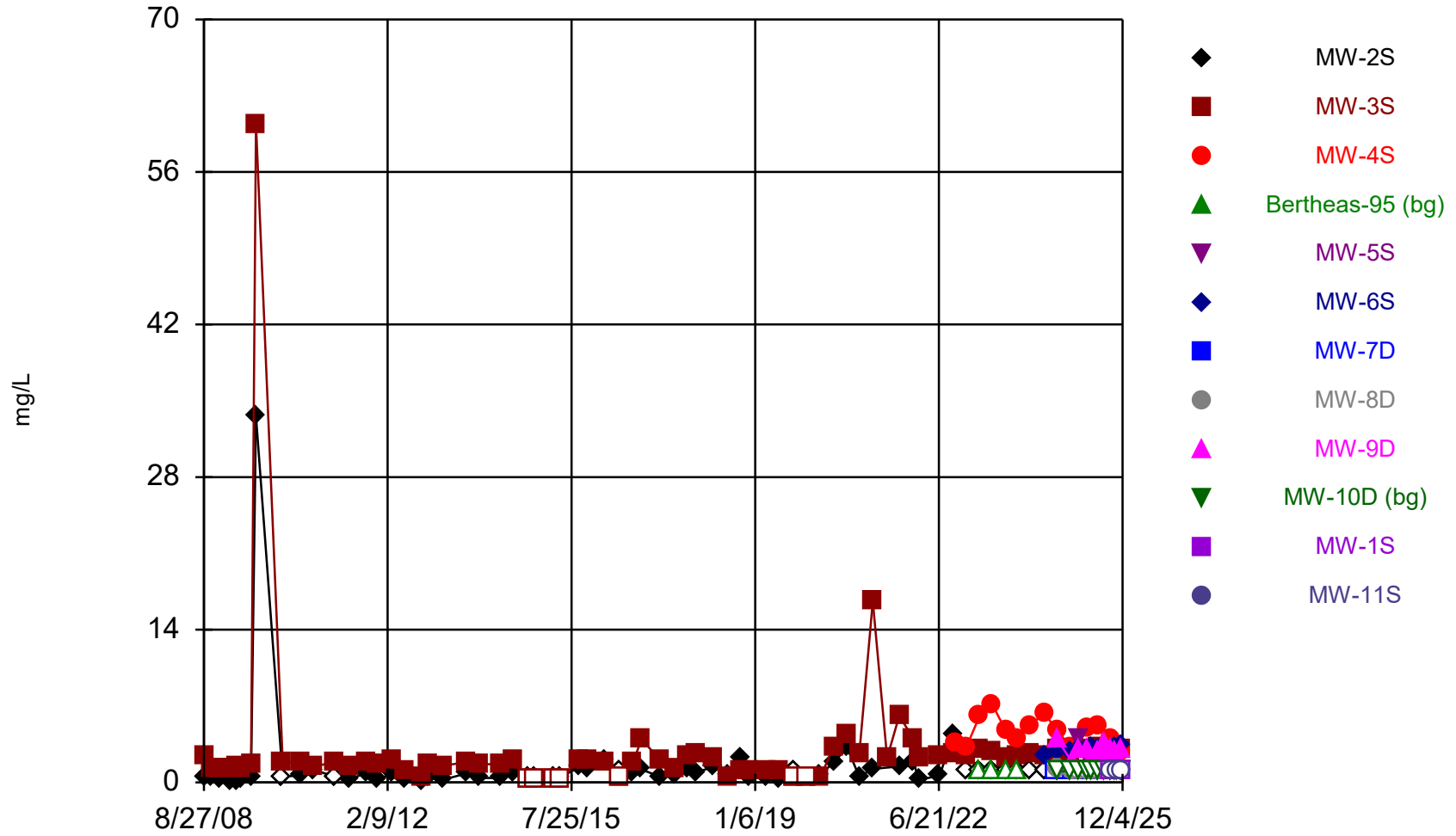
Constituent: Sulfate Analysis Run 3/17/2026 10:31 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



Constituent: TDS Analysis Run 3/17/2026 10:31 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



Constituent: Total Organic Carbon Analysis Run 3/17/2026 10:31 AM View: TSPs
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Appendix E

Geochemistry

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, First Quarter 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-5S			MW-6S			MW-7D			MW-8D			MW-9D			MW-10D				
	Value	Value	Percent	Value	Value	Percent	Value	Value	Percent	Value	Value	Percent	Value	Value	Percent	Value	Value	Percent		
	(mg/L)	(meq/L)	of Total (meq/L)	(mg/L)	(meq/L)	of Total (meq/L)	(mg/L)	(meq/L)	of Total (meq/L)	(mg/L)	(meq/L)	of Total (meq/L)	(mg/L)	(meq/L)	of Total (meq/L)	(mg/L)	(meq/L)	of Total (meq/L)		
CATIONS																				
Na	0.0435	20	0.87	11.61	16	0.70	13.51	10	0.44	22.27	18	0.78	22.70	29	1.26	27.14	13	0.57	25.00	
Ca	0.0499	60	2.99	39.95	41	2.05	39.71	13	0.65	33.21	24	1.20	34.72	33	1.65	35.43	17	0.85	37.51	
Mg	0.08229	42	3.46	46.12	28	2.30	44.72	9.7	0.80	40.86	17	1.40	40.55	20	1.65	35.41	9.7	0.80	35.29	
Fe(+2)	0.03581	0.92	0.03	0.44	0.028	0.00	0.02	0.25	0.01	0.46	0.028	0.00	0.03	0.55	0.02	0.42	0.028	0.00	0.04	
K	0.02558	5.2	0.13	1.78	4.1	0.10	2.04	2.4	0.06	3.14	2.7	0.07	2.00	2.3	0.06	1.27	1.9	0.05	2.15	
Mn	0.0364	0.21	0.01	0.10	0.0055	0.00	0.00	0.036	0.00	0.07	0.0055	0.00	0.01	0.43	0.02	0.34	0.0055	0.00	0.01	
TOTAL		7.49		100.00	TOTAL	5.15		100.00	TOTAL	1.95		100.00	TOTAL	3.45		100.00	TOTAL	4.65		100.00
ANIONS																				
HCO ₃ ²	0.02	100	2.00	26.65	84	1.68	31.56	94	1.88	92.88	92	1.84	53.83	100	2.00	48.43	96	1.92	82.69	
SO ₄	0.02082	160	3.33	44.39	56	1.17	21.90	2.5	0.05	2.57	50	1.04	30.45	48	1.00	24.20	9.9	0.21	8.88	
Cl	0.02821	77	2.17	28.94	60	1.69	31.79	3	0.09	4.32	15	0.42	12.38	40	1.13	27.33	3	0.10	4.13	
CO ₃ ²	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	
NO ₃ ³	0.0714	0.025	0.00	0.02	11	0.79	14.75	0.066	0.00	0.23	1.6	0.11	3.34	0.025	0.00	0.04	1.4	0.10	4.30	
TOTAL		7.51		100.00	TOTAL	5.32		100.00	TOTAL	2.02		100.00	TOTAL	3.42		100.00	TOTAL	4.13		100.00
anion + cation Sum (meq/L)		15.00			10.48			3.98			6.87			8.78			4.58			
(meq/L cations-anions)/(meq/L cations+anions)*100		-0.08			-1.64			-1.78			0.46			5.91			-1.31			

¹Reference: Hem 1985.

²HCO₃ and CO₃ reported as CaCO₃, conversion factor adjusted accordingly.

³NO₃ reported as NO₃-N, conversion factor adjusted accordingly.

☐ = Outside WAC 173-351-420(5)(a) acceptable range

+/-5 percent (for anion plus cation sums greater than 5 meq/L), or

+/-10 percent (for anion plus cation sums less than 5 meq/L)

Note: Values for cations in groundwater samples are measured as dissolved (field-filtered).

5 percent if anion plus cation sum greater than 5 meq/L; 10 percent if anion plus cation sum less than 5 meq/L

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, First Quarter 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-2S			MW-3S			MW-4S			MW-5S			MW-6S			MW-7D			MW-8D			MW-9D			MW-10D			Leachate			
	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	
CATIONS																															
Na	0.0435	10	0.44	22.12	21	0.91	13.88	25	1.09	8.94	19	0.83	18.12	18	0.78	13.24	12	0.52	23.27	21	0.91	23.16	26	1.13	26.16	15	0.65	24.21	12	0.52	19.70
Ca	0.0499	14	0.70	35.52	52	2.59	39.44	100	4.99	41.02	35	1.75	38.29	48	2.40	40.51	15	0.75	33.37	28	1.40	35.42	31	1.55	35.78	20	1.00	37.03	26	1.30	48.97
Mg	0.08229	9.3	0.77	38.91	36	2.96	45.03	72	5.92	48.71	23	1.89	41.49	32	2.63	44.54	11	0.91	40.35	19	1.56	39.64	19	1.56	36.16	12	0.99	36.63	9.4	0.77	29.20
Fe(+2)	0.03581	0.028	0.00	0.05	0.028	0.00	0.02	0.028	0.00	0.01	0.37	0.01	0.29	0.028	0.00	0.02	0.21	0.01	0.34	0.028	0.00	0.03	0.69	0.02	0.57	0.028	0.00	0.04	0.27	0.01	0.36
K	0.02558	2.6	0.07	3.38	4.2	0.11	1.63	6.3	0.16	1.32	3.1	0.08	1.74	3.9	0.10	1.69	2.3	0.06	2.62	2.7	0.07	1.75	1.8	0.05	1.06	2.2	0.06	2.09	1.8	0.05	1.74
Mn	0.0364	0.0055	0.00	0.01	0.0055	0.00	0.00	0.0055	0.00	0.00	0.096	0.00	0.08	0.0055	0.00	0.00	0.033	0.00	0.05	0.0055	0.00	0.01	0.32	0.01	0.27	0.0055	0.00	0.01	0.019	0.00	0.03
TOTAL		1.97		100.00	6.58		100.00	12.16		100.00	4.56		100.00	5.91		100.00	2.24		100.00	3.94		100.00	4.32		100.00	2.70		100.00	2.65		100.00
ANIONS																															
HCO ₃ ²⁻	0.02	78	1.56	89.74	94	1.88	30.49	160	3.20	28.70	100	2.00	45.62	86	1.72	32.22	94	1.88	92.19	92	1.84	51.04	100	2.00	47.82	94	1.88	80.99	36	0.72	35.22
SO ₄	0.02082	2.5	0.05	2.99	75	1.56	25.32	100	2.08	18.68	79	1.64	37.52	51	1.06	19.89	2.5	0.05	2.55	57	1.19	32.92	49	1.02	24.39	11	0.23	9.87	44	0.92	44.82
Cl	0.02821	2.7	0.08	4.38	68	1.92	31.11	49	1.38	12.40	26	0.73	16.73	62	1.75	32.77	3.7	0.10	5.12	16	0.45	12.52	41	1.16	27.65	3.7	0.10	4.50	3.2	0.09	4.42
CO ₃ ²⁻	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
NO ₃ ³⁻	0.0714	0.702	0.05	2.88	11.3	0.81	13.08	62.8	4.48	40.22	0.0800	0.01	0.13	11.3	0.81	15.12	0.0410	0.00	0.14	1.78	0.13	3.53	0.077	0.01	0.13	1.51	0.11	4.64	4.45	0.32	15.54
TOTAL		1.74		100.00	6.17		100.00	11.15		100.00	4.38		100.00	5.34		100.00	2.04		100.00	3.61		100.00	4.18		100.00	2.32		100.00	2.04		100.00
anion + cation Sum (meq/L)		3.70			12.75			23.31			8.95			11.25			4.28			7.55			8.51			5.02			4.69		
(meq/L cations-anions)/(meq/L cations+anions)*100				6.16			3.24			4.36			1.99			5.11			4.76			4.49			1.66			7.46			12.90

¹Reference: Hem 1985.

²HCO₃ and CO₃ reported as CaCO₃, conversion factor adjusted accordingly.

³NO₃ reported as NO₃-N, conversion factor adjusted accordingly.

☐ = Outside WAC 173-351-420(5)(a) acceptable range

+/-5 percent (for anion plus cation sums greater than 5 meq/L), or

+/-10 percent (for anion plus cation sums less than 5 meq/L)

Note: Values for cations in groundwater samples are measured as dissolved (field-filtered).

5 percent if anion plus cation sum greater than 5 meq/L; 10 percent if anion plus cation sum less than 5 meq/L

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, Second Quarter May 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-5S			MW-6S			MW-7D			MW-8D			MW-9D			MW-10D			
	Value	Value	Percent	Value	Value	Percent	Value	Value	Percent	Value	Value	Percent	Value	Value	Percent	Value	Value	Percent	
	(mg/L)	(meq/L)	of Total (meq/L)	(mg/L)	(meq/L)	(meq/L)	(mg/L)	(meq/L)	(meq/L)	(mg/L)	(meq/L)	(meq/L)	(mg/L)	(meq/L)	(meq/L)	(mg/L)	(meq/L)	(meq/L)	
CATIONS																			
Na	0.0435	18	0.78	19.48	16	0.70	12.13	11	0.48	22.17	18	0.78	21.51	22	0.96	23.39	13	0.57	22.74
Ca	0.0499	30	1.50	37.24	46	2.30	40.00	14	0.70	32.36	26	1.30	35.65	30	1.50	36.58	19	0.95	38.13
Mg	0.08229	20	1.65	40.94	32	2.63	45.89	11	0.91	41.93	18	1.48	40.70	19	1.56	38.21	11	0.91	36.40
Fe(+2)	0.03581	0.15	0.01	0.13	0.028	0.00	0.02	0.17	0.01	0.28	0.028	0.00	0.03	0.33	0.01	0.29	0.028	0.00	0.04
K	0.02558	3.4	0.09	2.16	4.4	0.11	1.96	2.7	0.07	3.20	3	0.08	2.11	2.2	0.06	1.38	2.6	0.07	2.67
Mn	0.0364	0.039	0.00	0.04	0.0055	0.00	0.00	0.031	0.00	0.05	0.0055	0.00	0.01	0.18	0.01	0.16	0.0055	0.00	0.01
TOTAL		4.02		100.00	TOTAL		5.74		100.00	TOTAL		2.16		100.00	TOTAL		3.64		100.00
ANIONS																			
HCO ₃ ²	0.02	110	2.20	46.34	88	1.76	30.96	100	2.00	93.87	94	1.88	53.08	90	1.80	45.31	100	2.00	82.09
SO ₄	0.02082	83	1.73	36.40	60	1.25	21.97	3	0.05	2.44	54	1.12	31.74	50	1.04	26.20	11	0.23	9.40
Cl	0.02821	29	0.82	17.23	65	1.83	32.25	3	0.08	3.57	15	0.42	11.95	40	1.13	28.40	4	0.10	4.17
CO ₃ ²	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
NO ₃ ³	0.0714	0.0240	0.00	0.04	11.8	0.84	14.82	0	0.00	0.12	2	0.11	3.23	0	0.00	0.09	1	0.11	4.34
TOTAL		4.75		100.00	TOTAL		5.69		100.00	TOTAL		2.13		100.00	TOTAL		3.54		100.00
anion + cation Sum (meq/L)		8.77			11.42			4.29			7.18			8.07			4.92		
(meq/L cations-anions)/(meq/L cations+anions)*100		-8.31			0.46			0.65			1.36			1.48			1.02		

¹Reference: Hem 1985.

²HCO₃ and CO₃ reported as CaCO₃, conversion factor adjusted accordingly.

³NO₃ reported as NO₃-N, conversion factor adjusted accordingly.

☐ = Outside WAC 173-351-420(5)(a) acceptable range

+/-5 percent (for anion plus cation sums greater than 5 meq/L), or

+/-10 percent (for anion plus cation sums less than 5 meq/L)

Note: Values for cations in groundwater samples are measured as dissolved (field-filtered).

5 percent if anion plus cation sum greater than 5 meq/L; 10 percent if anion plus cation sum less than 5 meq/L

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, Second Quarter June 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-2S			MW-3S			MW-4S			MW-5S			MW-6S			MW-7D			MW-8D			MW-9D			MW-10D					
	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)			
CATIONS																														
Na	0.0435	10	0.44	22.51	20	0.87	13.31	24	1.04	7.94	19	0.83	20.30	18	0.78	13.87	12	0.52	23.15	20	0.87	22.81	27	1.17	26.41	13	0.57	21.55		
Ca	0.0499	13	0.65	33.58	50	2.50	38.17	110	5.49	41.77	30	1.50	36.78	44	2.20	38.89	15	0.75	33.19	26	1.30	34.01	31	1.55	34.78	20	1.00	38.04		
Mg	0.08229	9.3	0.77	39.61	37	3.04	46.58	78	6.42	48.84	20	1.65	40.43	31	2.55	45.18	11	0.91	40.14	19	1.56	40.99	20	1.65	37.00	12	0.99	37.64		
Fe(+2)	0.03581	0.028	0.00	0.05	0.088	0.00	0.05	0.028	0.00	0.01	0.21	0.01	0.18	0.028	0.00	0.02	0.11	0.00	0.17	0.028	0.00	0.03	0.16	0.01	0.13	0.028	0.00	0.04		
K	0.02558	3.2	0.08	4.24	4.8	0.12	1.88	7.4	0.19	1.44	3.6	0.09	2.26	4.5	0.12	2.04	2.9	0.07	3.29	3.2	0.08	2.15	2.7	0.07	1.55	2.8	0.07	2.73		
Mn	0.0364	0.0055	0.00	0.01	0.0055	0.00	0.00	0.0055	0.00	0.00	0.042	0.00	0.04	0.0055	0.00	0.00	0.034	0.00	0.05	0.023	0.00	0.02	0.16	0.01	0.13	0.0055	0.00	0.01		
TOTAL		1.93	100.00		6.54	100.00		13.14	100.00		4.07	100.00		5.65	100.00		2.26	100.00		3.81	100.00		4.45	100.00		2.62	100.00		2.62	100.00
ANIONS																														
HCO ₃ ²⁻	0.02	82	1.64	86.23	100	2.00	29.38	180	3.60	25.80	110	2.20	52.90	88	1.76	31.70	98	1.96	93.67	92	1.84	52.17	88	1.76	41.70	98	1.96	79.66		
SO ₄	0.02082	6.3	0.13	6.90	99	2.06	30.28	160	3.33	23.87	68	1.42	34.04	59	1.23	22.13	2.5	0.05	2.49	58	1.21	34.24	57	1.19	28.12	13	0.27	11.00		
Cl	0.02821	2.9	0.08	4.30	67	1.89	27.76	51	1.44	10.31	19	0.54	12.89	61	1.72	31.00	2.6	0.07	3.51	13	0.37	10.40	41	1.16	27.40	4.0	0.11	4.59		
CO ₃ ²⁻	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00		
NO ₃ ³⁻	0.0714	0.686	0.05	2.58	12.0	0.86	12.59	78.2	5.58	40.02	0.1	0.01	0.17	11.8	0.84	15.18	0.1	0.01	0.34	1.58	0.11	3.20	1.64	0.12	2.77	1.64	0.12	4.76		
TOTAL		1.90	100.00		6.81	100.00		13.95	100.00		4.16	100.00		5.55	100.00		2.09	100.00		3.53	100.00		4.22	100.00		2.46	100.00		2.46	100.00
anion + cation Sum (meq/L)		3.83			13.34			27.10			8.23			11.20			4.35			7.34			8.67			5.08				
(meq/L cations-anions)/(meq/L cations+anions)*100				0.79			-2.04			-2.99			-1.07			0.84				3.74			3.92			2.62			3.21	

¹Reference: Hem 1985.

²HCO₃ and CO₃ reported as CaCO₃, conversion factor adjusted accordingly.

³NO₃ reported as NO₃-N, conversion factor adjusted accordingly.

☐ = Outside WAC 173-351-420(5)(a) acceptable range

+/-5 percent (for anion plus cation sums greater than 5 meq/L), or

+/-10 percent (for anion plus cation sums less than 5 meq/L)

Note: Values for cations in groundwater samples are measured as dissolved (field-filtered).

5 percent if anion plus cation sum greater than 5 meq/L; 10 percent if anion plus cation sum less than 5 meq/L

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, Third Quarter (A) 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-5S			MW-6S			MW-7D			MW-8D			MW-9D			MW-10D			
	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	
CATIONS																			
Na	0.0435	18	0.78	21.34	16	0.70	12.73	10	0.44	22.36	18	0.78	22.71	26	1.13	25.81	12	0.52	21.91
Ca	0.0499	28	1.40	38.07	44	2.20	40.15	13	0.65	33.34	24	1.20	34.73	31	1.55	NA	18	0.90	NA
Mg	0.08229	17	1.40	38.12	30	2.47	45.14	9.7	0.80	41.03	17	1.40	40.57	20	1.65	NA	11	0.91	NA
Fe(+2)	0.03581	0.081	0.00	0.08	0.028	0.00	0.02	0.028	0.00	0.05	0.028	0.00	0.03	0.028	0.00	0.06	0.028	0.00	0.05
K	0.02558	3.4	0.09	2.37	4.2	0.11	1.96	2.4	0.06	3.16	2.6	0.07	1.93	2.2	0.06	3.70	2.2	0.06	22.52
Mn	0.0364	0.025	0.00	0.02	0.0055	0.00	0.00	0.031	0.00	0.06	0.024	0.00	0.03	0.0055	0.00	0.02	0.0055	0.00	0.25
TOTAL		3.67	100.00		5.47	100.00		1.95	100.00		3.45	100.00		4.38	29.59		2.38	44.73	
ANIONS																			
HCO ₃ ²⁻	0.02	110	2.20	56.39	92	1.84	33.08	96	1.92	93.80	94	1.88	52.81	88	1.76	39.61	100	2.00	83.40
SO ₄	0.02082	57	1.19	30.42	56	1.17	20.96	2.5	0.05	2.54	58	1.21	33.92	73	1.52	34.20	12	0.25	10.42
Cl	0.02821	18	0.51	13.01	61	1.72	30.94	2.4	0.07	3.31	13	0.37	10.30	41	1.16	26.03	2.8	0.08	3.29
CO ₃ ²⁻	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
NO ₃ ³⁻	0.0714	0.100	0.01	0.18	11.7	0.84	15.02	0.100	0.01	0.35	1.48	0.11	2.97	0.100	0.01	0.16	0.970	0.07	2.89
TOTAL		3.90	100.00		5.56	100.00		2.05	100.00		3.56	100.00		4.44	100.00		2.40	100.00	
anion + cation Sum (meq/L)		7.57			11.03			3.99			7.01			8.82			4.78		
(meq/L cations-anions)/(meq/L cations+anions)*100		-3.06			-0.84			-2.54			-1.60			-0.71			-0.32		

¹Reference: Hem 1985.

²HCO₃ and CO₃ reported as CaCO₃, conversion factor adjusted accordingly.

³NO₃ reported as NO₃-N, conversion factor adjusted accordingly.

☐ = Outside WAC 173-351-420(5)(a) acceptable range

+/-5 percent (for anion plus cation sums greater than 5 meq/L), or

+/-10 percent (for anion plus cation sums less than 5 meq/L)

Note: Values for cations in groundwater samples are measured as dissolved (field-filtered).

5 percent if anion plus cation sum greater than 5 meq/L; 10 percent if anion plus cation sum less than 5 meq/L

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, Third Quarter (B) 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-1S			MW-2S			MW-3S			MW-4S			MW-5S			MW-6S			
	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	
CATIONS																			
Na	0.0435	18	0.78	29.69	9.2	0.40	21.59	19	0.83	13.07	21	0.91	7.51	17	0.74	19.93	16	0.70	12.59
Ca	0.0499	18	0.90	34.05	13	0.65	35.00	50	2.50	39.44	100	4.99	41.02	28	1.40	37.65	45	2.25	40.61
Mg	0.08229	10	0.82	31.20	8.8	0.72	39.07	35	2.88	45.53	74	6.09	50.05	18	1.48	39.92	30	2.47	44.65
Fe(+2)	0.03581	1.1	0.04	1.49	0.028	0.00	0.05	0.028	0.00	0.02	0.028	0.00	0.01	0.073	0.00	0.07	0.028	0.00	0.02
K	0.02558	2.8	0.07	2.72	3.1	0.08	4.28	4.8	0.12	1.94	6.7	0.17	1.41	3.5	0.09	2.41	4.6	0.12	2.13
Mn	0.0364	0.62	0.02	0.86	0.0055	0.00	0.01	0.0055	0.00	0.00	0.0055	0.00	0.00	0.021	0.00	0.02	0.0055	0.00	0.00
		TOTAL	2.64	100.00	TOTAL	1.85	100.00	TOTAL	6.33	100.00	TOTAL	12.17	100.00	TOTAL	3.71	100.00	TOTAL	5.53	100.00
ANIONS																			
HCO ₃ ²⁻	0.02	120	2.40	90.21	82	1.64	87.49	100	2.00	29.78	160	3.20	27.55	110	2.20	56.05	88	1.76	30.36
SO ₄	0.02082	6.2	0.13	4.85	5.5	0.11	6.11	96	2.00	29.76	120	2.50	21.51	59	1.23	31.30	66	1.37	23.70
Cl	0.02821	4.4	0.12	4.67	2.4	0.07	3.61	67	1.89	28.14	42	1.18	10.20	17	0.48	12.22	62	1.75	30.17
CO ₃ ²⁻	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
NO ₃ ³⁻	0.0714	0.100	0.01	0.27	0.731	0.05	2.78	11.6	0.83	12.33	66.3	4.73	40.75	0.239	0.02	0.43	12.8	0.91	15.77
		TOTAL	2.66	100.00	TOTAL	1.87	100.00	TOTAL	6.72	100.00	TOTAL	11.62	100.00	TOTAL	3.93	100.00	TOTAL	5.80	100.00
anion + cation Sum (meq/L)		5.30			3.73			13.04			23.78			7.64			11.33		
(meq/L cations-anions)/(meq/L cations+anions)*100		-0.43			-0.56			-3.00			2.31			-2.81			-2.37		

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, Third Quarter (B) 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-11S			MW-7D			MW-8D			MW-9D			MW-10D			
	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	
CATIONS																
Na	0.0435	13	0.57	21.11	17	0.74	31.65	19	0.83	22.40	27	1.17	25.42	12	0.52	21.37
Ca	0.0499	19	0.95	35.39	14	0.70	29.90	26	1.30	35.17	33	1.65	35.65	19	0.95	38.81
Mg	0.08229	13	1.07	39.93	10	0.82	35.22	18	1.48	40.15	21	1.73	37.41	11	0.91	37.05
Fe(+2)	0.03581	0.028	0.00	0.04	0.077	0.00	0.12	0.028	0.00	0.03	0.028	0.00	0.02	0.028	0.00	0.04
K	0.02558	3.5	0.09	3.34	2.8	0.07	3.07	3.2	0.08	2.22	2.7	0.07	1.50	2.6	0.07	2.72
Mn	0.0364	0.14	0.01	0.19	0.034	0.00	0.05	0.033	0.00	0.03	0.0055	0.00	0.00	0.0055	0.00	0.01
		TOTAL	2.68	100.00	TOTAL	2.34	100.00	TOTAL	3.69	100.00	TOTAL	4.62	100.00	TOTAL	2.44	100.00
ANIONS																
HCO ₃ ²	0.02	110	2.20	79.86	100	2.00	93.66	92	1.84	48.93	90	1.80	40.32	98	1.96	81.09
SO ₄	0.02082	15	0.31	11.34	2.5	0.05	2.44	60	1.25	33.22	68	1.42	31.71	12	0.25	10.34
Cl	0.02821	7.2	0.20	7.37	2.7	0.08	3.57	20	0.56	15.00	44	1.24	27.80	3.3	0.09	3.85
CO ₃ ²	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
NO ₃ ³	0.0714	0.551	0.04	1.43	0.100	0.01	0.33	1.50	0.11	2.85	0.100	0.01	0.16	1.60	0.11	4.73
		TOTAL	2.75	100.00	TOTAL	2.14	100.00	TOTAL	3.76	100.00	TOTAL	4.46	100.00	TOTAL	2.42	100.00
anion + cation Sum (meq/L)		5.43			4.47			7.45			9.08			4.86		
(meq/L cations-anions)/(meq/L cations+anions)*100		-1.39			4.50			-0.96			1.71			0.53		

¹Reference: Hem 1985.

²HCO₃ and CO₃ reported as CaCO₃, conversion factor adjusted accordingly.

³NO₃ reported as NO₃-N, conversion factor adjusted accordingly.

 = Outside WAC 173-351-420(5)(a) acceptable range

+/-5 percent (for anion plus cation sums greater than 5 meq/L), or

+/-10 percent (for anion plus cation sums less than 5 meq/L)

Note: Values for cations in groundwater samples are measured as dissolved (field-filtered).

5 percent if anion plus cation sum greater than 5 meq/L; 10 percent if anion plus cation sum less than 5 meq/L

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, Fourth Quarter 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-1S			MW-5S			MW-6S			MW-11S			
	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	
	CATIONS												
Na	0.0435	17	0.74	26.77	19	0.83	20.54	19	0.83	12.88	14	0.61	20.65
Ca	0.0499	19	0.95	34.32	29	1.45	35.97	50	2.50	38.87	20	1.00	33.84
Mg	0.08229	12	0.99	35.75	20	1.65	40.91	36	2.96	46.16	15	1.23	41.85
Fe(+2)	0.03581	0.028	0.00	0.04	0.081	0.00	0.07	0.028	0.00	0.02	0.028	0.00	0.03
K	0.02558	2.9	0.07	2.69	3.9	0.10	2.48	5.2	0.13	2.07	4.0	0.10	3.47
Mn	0.0364	0.33	0.01	0.43	0.026	0.00	0.02	0.0055	0.00	0.00	0.13	0.00	0.16
	TOTAL	2.76	100.00		TOTAL	4.02	100.00	TOTAL	6.42	100.00	TOTAL	2.95	100.00
ANIONS													
HCO ₃ ²	0.02	100	2.00	81.76	110	2.20	56.09	98	1.96	31.34	110	2.20	79.46
SO ₄	0.02082	13	0.27	11.07	58	1.21	30.79	66	1.37	21.97	14	0.29	10.53
Cl	0.02821	4.7	0.13	5.42	18	0.51	12.95	63	1.78	28.42	7.6	0.21	7.74
CO ₃ ²	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
NO ₃ ³	0.0714	0.600	0.04	1.75	0.1	0.01	0.18	16.0	1.14	18.27	0.881	0.06	2.27
	TOTAL	2.45	100.00		TOTAL	3.92	100.00	TOTAL	6.25	100.00	TOTAL	2.77	100.00
anion + cation Sum (meq/L)		5.21			7.95			12.67			5.72		
(meq/L cations-anions)/(meq/L cations+anions)*100			6.07			1.27			1.30				3.16

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, Fourth Quarter 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-7D			MW-8D			MW-9D			MW-10D			
	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	
CATIONS													
Na	0.0435	12	0.52	23.68	21	0.91	22.13	27	1.17	25.72	12	0.52	21.86
Ca	0.0499	14	0.70	31.69	28	1.40	33.85	32	1.60	34.96	18	0.90	37.62
Mg	0.08229	11	0.91	41.06	21	1.73	41.86	21	1.73	37.84	11	0.91	37.91
Fe(+2)	0.03581	0.028	0.00	0.05	0.028	0.00	0.02	0.025	0.00	0.02	0.025	0.00	0.04
K	0.02558	3.0	0.08	3.48	3.4	0.09	2.11	2.6	0.07	1.46	2.4	0.06	2.57
Mn	0.0364	0.031	0.00	0.05	0.034	0.00	0.03	0.005	0.00	0.00	0.005	0.00	0.01
	TOTAL	2.20	100.00	100.00	TOTAL	4.13	100.00	TOTAL	4.57	100.00	TOTAL	2.39	100.00
ANIONS													
HCO ₃ ²	0.02	98	1.96	93.79	94	1.88	49.69	94	1.88	39.83	98	1.96	81.69
SO ₄	0.02082	2.5	0.05	2.49	65	1.35	35.77	74	1.54	32.64	12	0.25	10.41
Cl	0.02821	2.5	0.07	3.37	16	0.45	11.93	42	1.18	25.10	3.1	0.09	3.64
CO ₃ ²	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
NO ₃ ³	0.0714	0.1	0.01	0.34	1.38	0.10	2.60	1.60	0.11	2.42	1.43	0.10	4.26
	TOTAL	2.09	100.00	100.00	TOTAL	3.78	100.00	TOTAL	4.72	100.00	TOTAL	2.40	100.00
anion + cation Sum (meq/L)		4.29			7.91			9.29			4.79		
(meq/L cations-anions)/(meq/L cations+anions)*100		2.68			4.36			-1.64			-0.24		

¹Reference: Hem 1985.

²HCO₃ and CO₃ reported as CaCO₃, conversion factor adjusted accordingly.

³NO₃ reported as NO₃-N, conversion factor adjusted accordingly.

= Outside WAC 173-351-430(5)(a) acceptable range

+/-5 percent (for anion plus cation sums greater than 5 meq/L), or

+/-10 percent (for anion plus cation sums less than 5 meq/L)

Note: Values for cations in groundwater samples are measured as dissolved (field-filtered).

5 percent if anion plus cation sum greater than 5 meq/L; 10 percent if anion plus cation sum less than 5 meq/L

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, Fourth Quarter (B) 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-1S			MW-2S			MW-3S			MW-4S			MW-5S			MW-6S			
	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	
CATIONS																			
Na	0.0435	16	0.70	31.69	9.9	0.43	23.55	20	0.87	13.89	21	0.91	8.85	18	0.78	21.44	17	0.74	12.79
Ca	0.0499	14	0.70	31.81	12	0.60	32.74	48	2.40	38.25	88	4.39	42.55	26	1.30	35.52	46	2.30	39.70
Mg	0.08229	8.9	0.73	33.35	8.8	0.72	39.59	35	2.88	46.00	59	4.86	47.05	18	1.48	40.55	32	2.63	45.54
Fe(+2)	0.03581	0.062	0.00	0.10	0.028	0.00	0.05	0.028	0.00	0.02	0.028	0.00	0.01	0.10	0.00	0.10	0.028	0.00	0.02
K	0.02558	2.4	0.06	2.80	2.9	0.07	4.06	4.5	0.12	1.84	6.2	0.16	1.54	3.4	0.09	2.38	4.4	0.11	1.95
Mn	0.0364	0.15	0.01	0.25	0.006	0.00	0.01	0.006	0.00	0.00	0.006	0.00	0.00	0.020	0.00	0.02	0.006	0.00	0.00
		TOTAL	2.20	100.00	TOTAL	1.83	100.00	TOTAL	6.26	100.00	TOTAL	10.32	100.00	TOTAL	3.65	100.00	TOTAL	5.78	100.00
ANIONS																			
HCO ₃ ²	0.02	96	1.92	85.59	80	1.60	87.69	100	2.00	30.56	120	2.40	21.92	110	2.20	57.50	94	1.88	30.31
SO ₄	0.02082	9.4	0.20	8.72	5.4	0.11	6.16	89	1.85	28.32	120	2.50	22.82	52	1.08	28.30	64	1.33	21.48
Cl	0.02821	4.0	0.11	5.03	2.2	0.06	3.40	64	1.81	27.59	36	1.02	9.28	19	0.54	14.01	67	1.89	30.47
CO ₃ ²	0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
NO ₃ ³	0.0714	0.206	0.01	0.66	0.703	0.05	2.75	12.4	0.89	13.53	70.5	5.03	45.98	0.1	0.01	0.19	15.4	1.10	17.73
		TOTAL	2.24	100.00	TOTAL	1.82	100.00	TOTAL	6.54	100.00	TOTAL	10.95	100.00	TOTAL	3.83	100.00	TOTAL	6.20	100.00
anion + cation Sum (meq/L)			4.44			3.65			12.81			21.27		7.48				11.98	
(meq/L cations-anions)/(meq/L cations+anions)*100				-1.06			0.12			-2.20			-2.95			-2.31			-3.51

Cation/Anion Balance Calculations, Rocky Top Environmental Limited Purpose Landfill, Fourth Quarter (B) 2025

Conversion Factor ¹ (mg/L to meq/L)	MW-11S			MW-7D			MW-8D			MW-9D			MW-10D		
	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)	Value (mg/L)	Value (meq/L)	Percent of Total (meq/L)
CATIONS															
Na 0.0435	13	0.57	20.50	11	0.48	23.72	21	0.91	21.91	24	1.04	25.08	12	0.52	21.86
Ca 0.0499	19	0.95	34.37	13	0.65	32.16	29	1.45	34.70	30	1.50	35.97	18	0.90	37.61
Mg 0.08229	14	1.15	41.77	10	0.82	40.79	21	1.73	41.44	19	1.56	37.57	11	0.91	37.91
Fe(+2) 0.03581	0.028	0.00	0.04	0.061	0.00	0.11	0.028	0.00	0.02	0.028	0.00	0.02	0.028	0.00	0.04
K 0.02558	3.5	0.09	3.25	2.5	0.06	3.17	3.1	0.08	1.90	2.2	0.06	1.35	2.4	0.06	2.57
Mn 0.0364	0.056	0.00	0.07	0.029	0.00	0.05	0.024	0.00	0.02	0.006	0.00	0.00	0.006	0.00	0.01
TOTAL	2.76	100.00	TOTAL	2.02	100.00	TOTAL	4.17	100.00	TOTAL	4.16	100.00	TOTAL	2.39	100.00	
ANIONS															
HCO ₃ ² 0.02	110	2.20	78.03	98	1.96	94.30	92	1.84	43.71	90	1.80	42.44	94	1.88	80.11
SO ₄ 0.02082	15	0.31	11.08	2.5	0.05	2.50	81	1.69	40.06	60	1.25	29.45	13	0.27	11.53
Cl 0.02821	7.7	0.22	7.70	2.1	0.06	2.85	21	0.59	14.07	42	1.18	27.94	2.9	0.08	3.49
CO ₃ ² 0.02	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
NO ₃ ³ 0.0714	1.26	0.09	3.19	0.1	0.01	0.34	1.27	0.09	2.15	0.1	0.01	0.17	1.60	0.11	4.87
TOTAL	2.82	100.00	TOTAL	2.08	100.00	TOTAL	4.21	100.00	TOTAL	4.24	100.00	TOTAL	2.35	100.00	
anion + cation Sum (meq/L)	5.58			4.10			8.38			8.40			4.73		
(meq/L cations-anions)/(meq/L cations+anions)*100	-1.10			-1.49			-0.47			-0.94			0.87		

¹Reference: Hem 1985.

²HCO₃ and CO₃ reported as CaCO₃, conversion factor adjusted accordingly.

³NO₃ reported as NO₃-N, conversion factor adjusted accordingly.

= Outside WAC 173-351-420(5)(a) acceptable range

+/-5 percent (for anion plus cation sums greater than 5 meq/L), or

+/-10 percent (for anion plus cation sums less than 5 meq/L)

Note: Values for cations in groundwater samples are measured as dissolved (field-filtered).

5 percent if anion plus cation sum greater than 5 meq/L; 10 percent if anion plus cation sum less than 5 meq/L

**Summary of Cation/Anion Charge Balance Differences, 2025 Groundwater Data, A Event
Wells, Rocky Top Environmental Limited Purpose Landfill**

Monitoring Well	First Quarter RPD¹	Second Quarter RPD¹	Third Quarter RPD¹	Fourth Quarter RPD¹
MW-1S	NA	NA	NA	6.07
MW-5S	-0.08	-8.31	-3.06	1.27
MW-6S	-1.64	0.46	-0.84	1.30
MW-11S	NA	NA	NA	3.16
MW-7D	-1.78	0.65	-2.54	2.68
MW-8D	0.46	1.36	-1.60	4.36
MW-9D	5.91	1.48	-0.71	-1.64
MW-10D	-1.31	1.02	-0.32	-0.24

Note:

¹ Reported in relative percent difference (RPD). For each sample the analytical results were converted into milliequivalents per liter (meq/L) and the cation meq/L summed (C) and the anion meq/L summed (A).

$$RPD = \frac{2(C-A)}{C+A} \times 100$$

 = Outside WAC 173-351-420(5)(a) acceptable range

NA = Not analyzed

**Summary of Cation/Anion Charge Balance Differences, 2025 Groundwater Data, Event B
Wells, Rocky Top Environmental Limited Purpose Landfill**

Monitoring Well	First Quarter RPD¹	Second Quarter RPD¹	Third Quarter RPD¹	Fourth Quarter RPD¹
MW-1S	NA	NA	-0.43	-1.06
MW-2S	6.16	0.79	-0.56	0.12
MW-3S	3.24	-2.04	-3.00	-2.20
MW-4S	4.36	-2.99	2.31	-2.95
MW-5S	1.99	-1.07	-2.81	-2.31
MW-6S	5.11	0.84	-2.37	-3.51
MW-11S	NA	NA	-1.39	-1.10
MW-7D	4.76	3.74	4.50	-1.49
MW-8D	4.49	3.92	-0.96	-0.47
MW-9D	1.66	2.62	1.71	-0.94
MW-10D	7.46	3.21	0.53	0.87

Note:

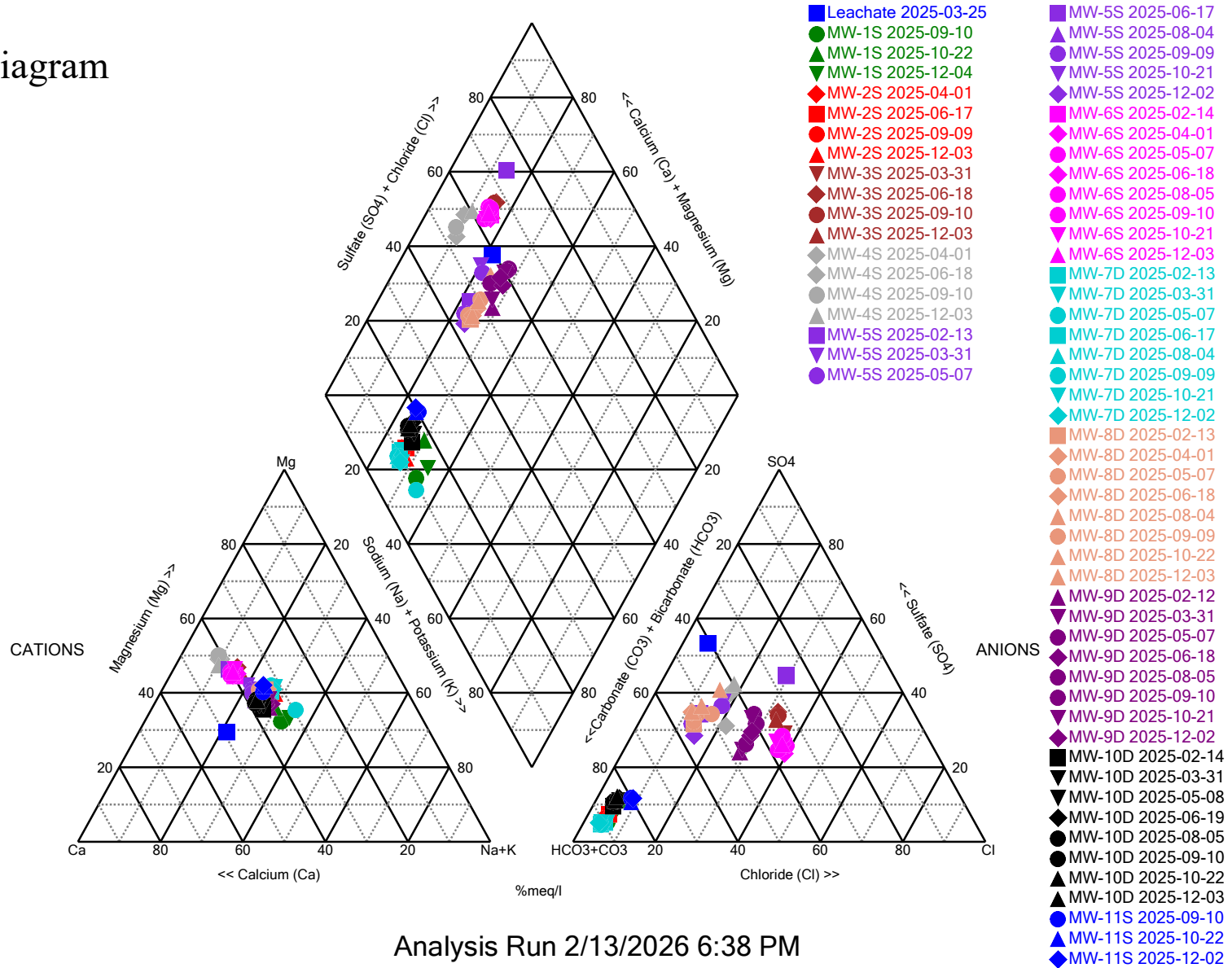
¹ Reported in relative percent difference (RPD). For each sample the analytical results were converted into milliequivalents per liter (meq/L) and the cation meq/L summed (C) and the anion meq/L summed (A).

$$RPD = \frac{2(C-A)}{C+A} \times 100$$

 = Outside WAC 173-351-420(5)(a) acceptable range

NA = Not analyzed

Piper Diagram

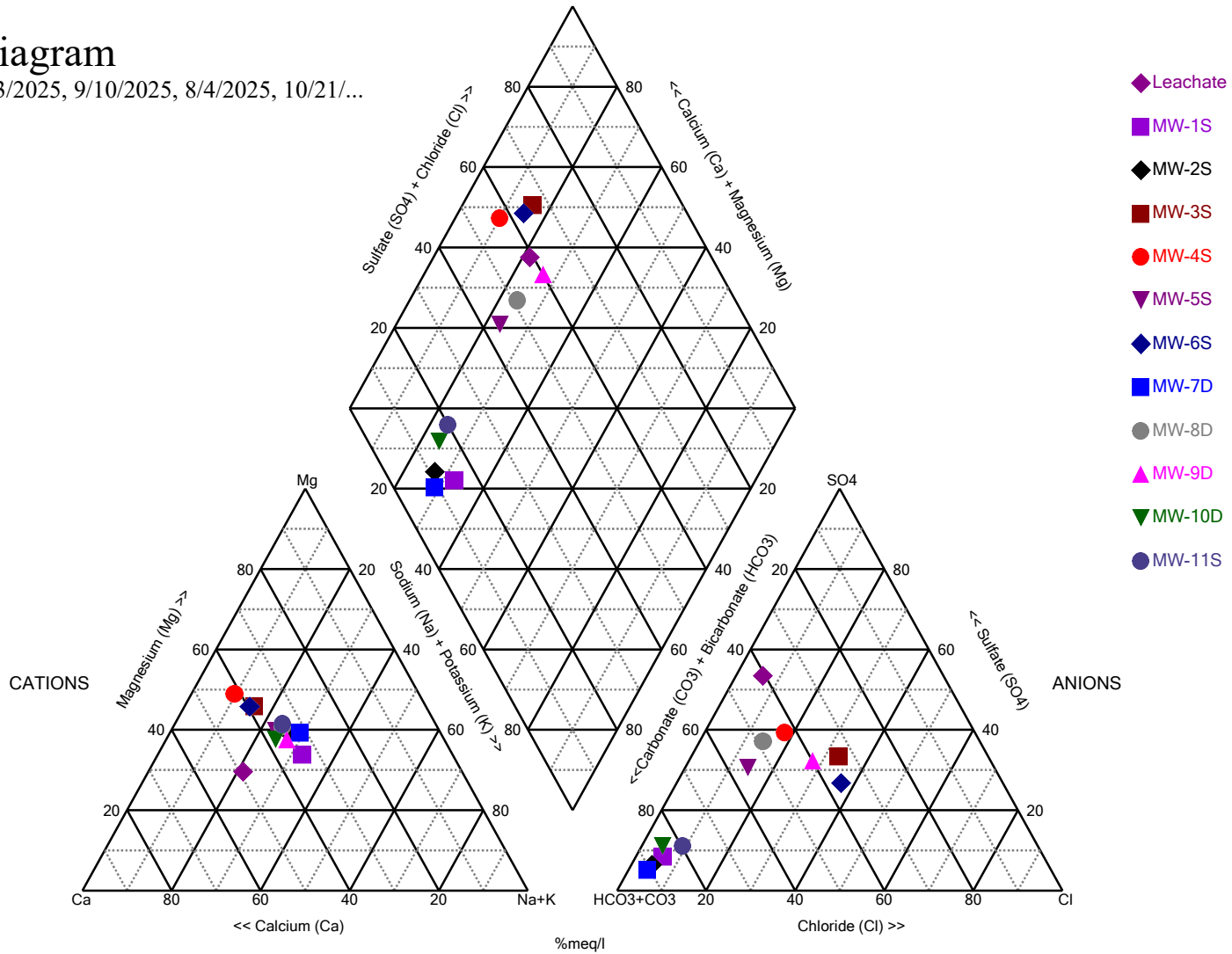


Analysis Run 2/13/2026 6:38 PM

Yakima Limited Purpose Landfill Client: DTG Data: DTG Piper

Piper Diagram

9/9/2025, 12/3/2025, 9/10/2025, 8/4/2025, 10/21/...



Analysis Run 2/13/2026 6:33 PM

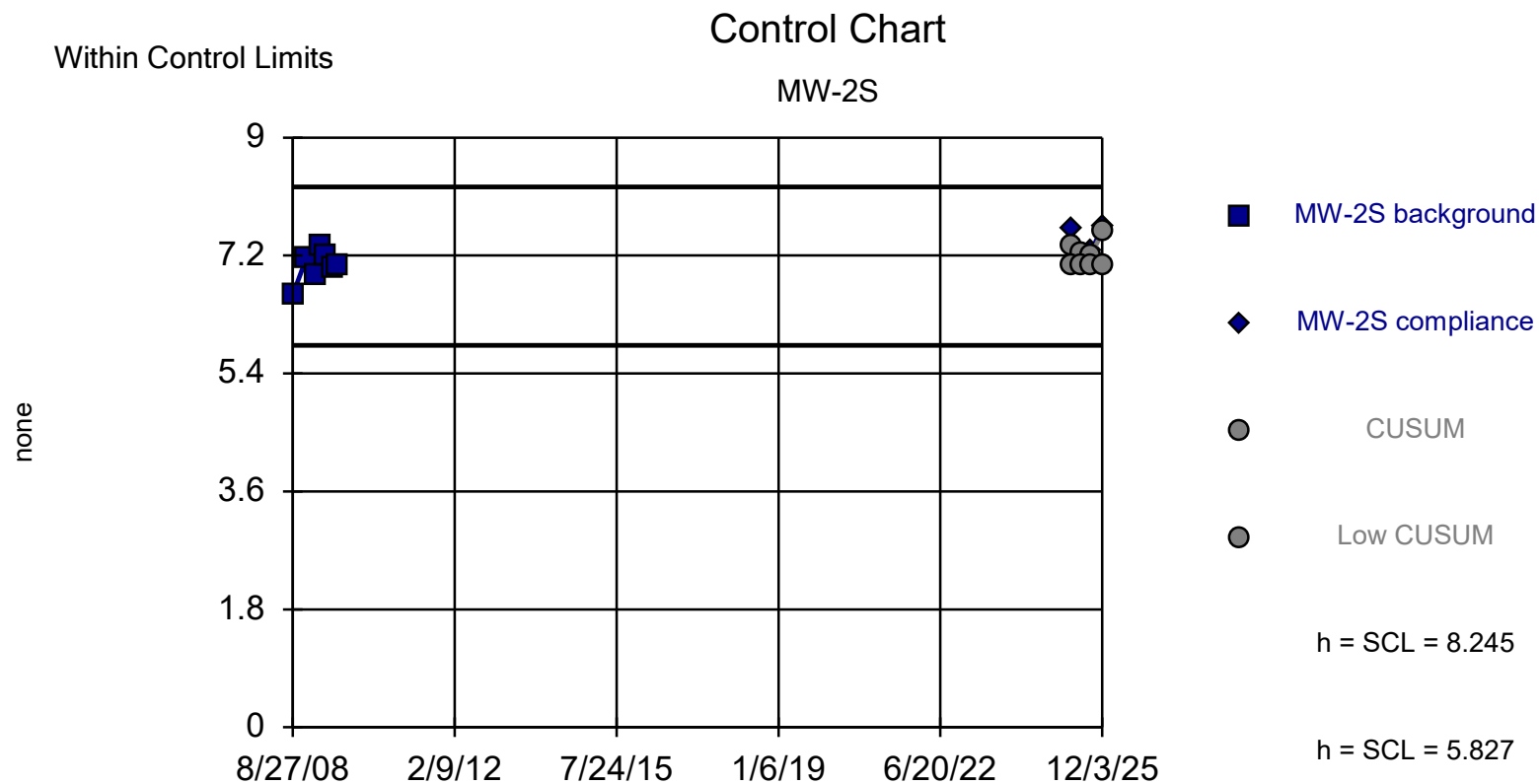
Yakima Limited Purpose Landfill Client: DTG Data: DTG Piper

Appendix F

Statistics

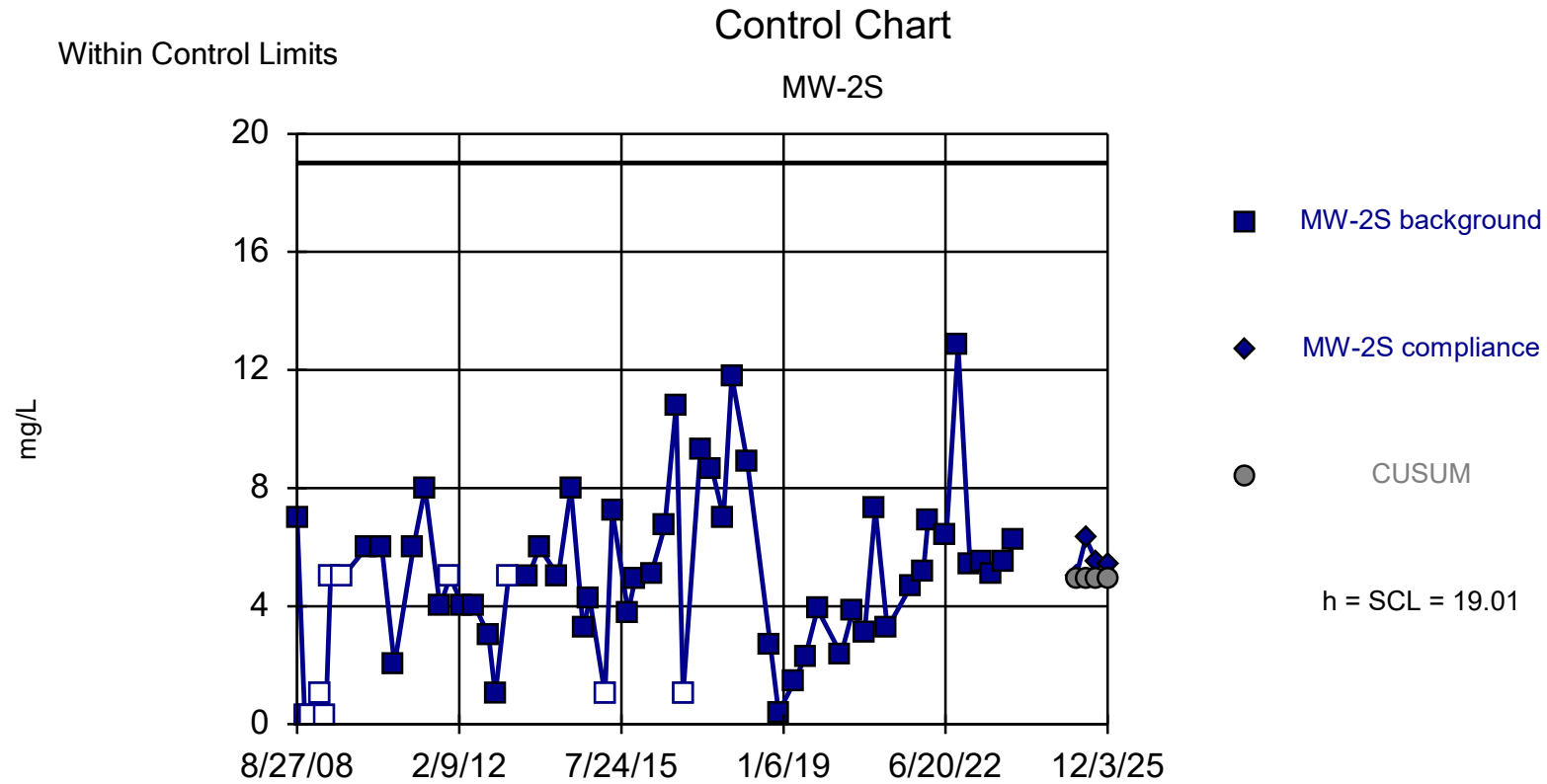
Appendix F-1

Control Charts



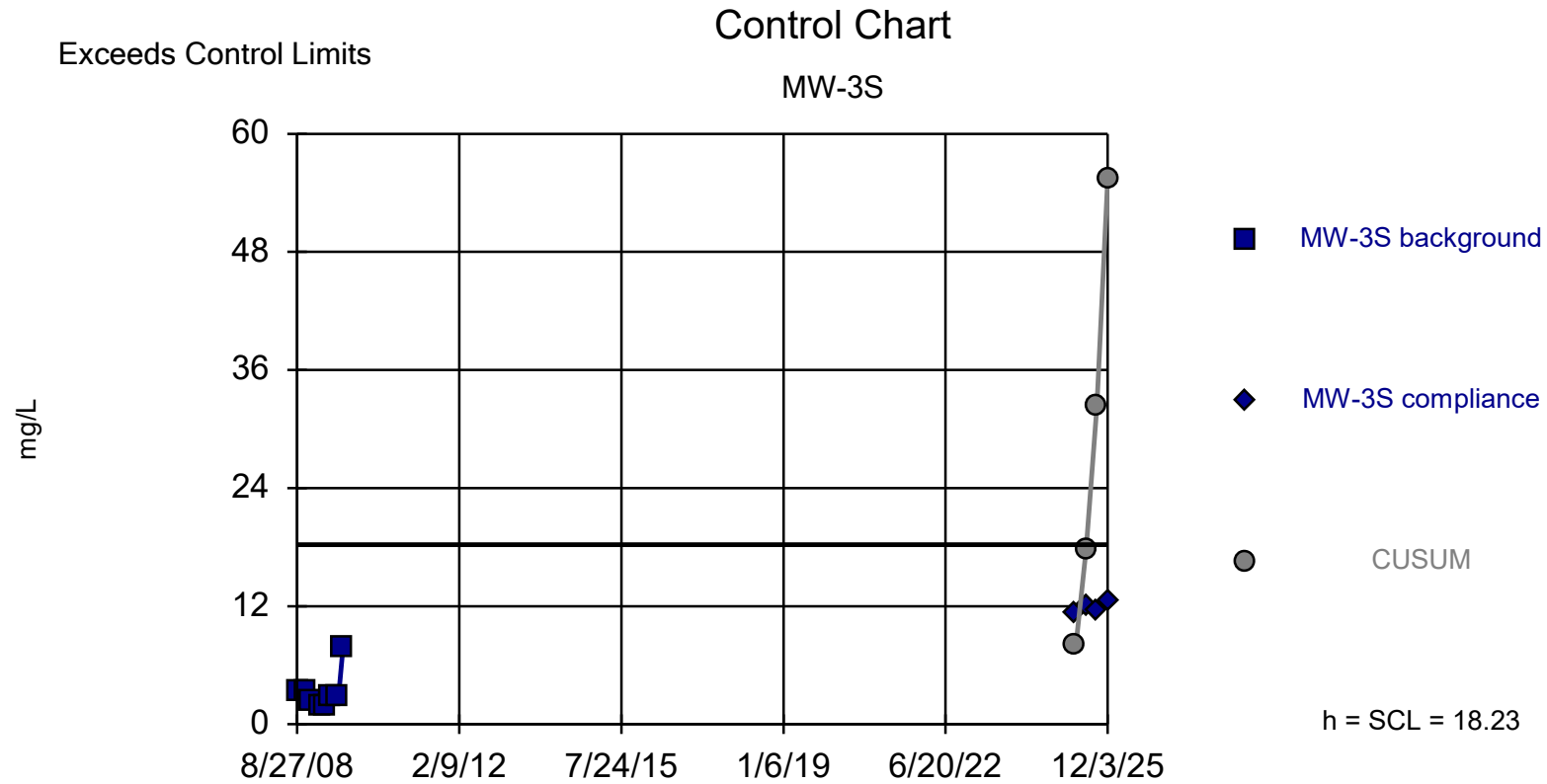
Background Data Summary: Mean=7.036, Std. Dev.=0.2418, n=7. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9617, critical = 0.803. Report alpha = 0.005758. Dates ending 8/19/2009 used for control stats. Standardized h=5, SCL=5.

Constituent: pH Analysis Run 2/13/2026 6:40 PM View: 2025 Control Charts - 2008-2009 background
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats



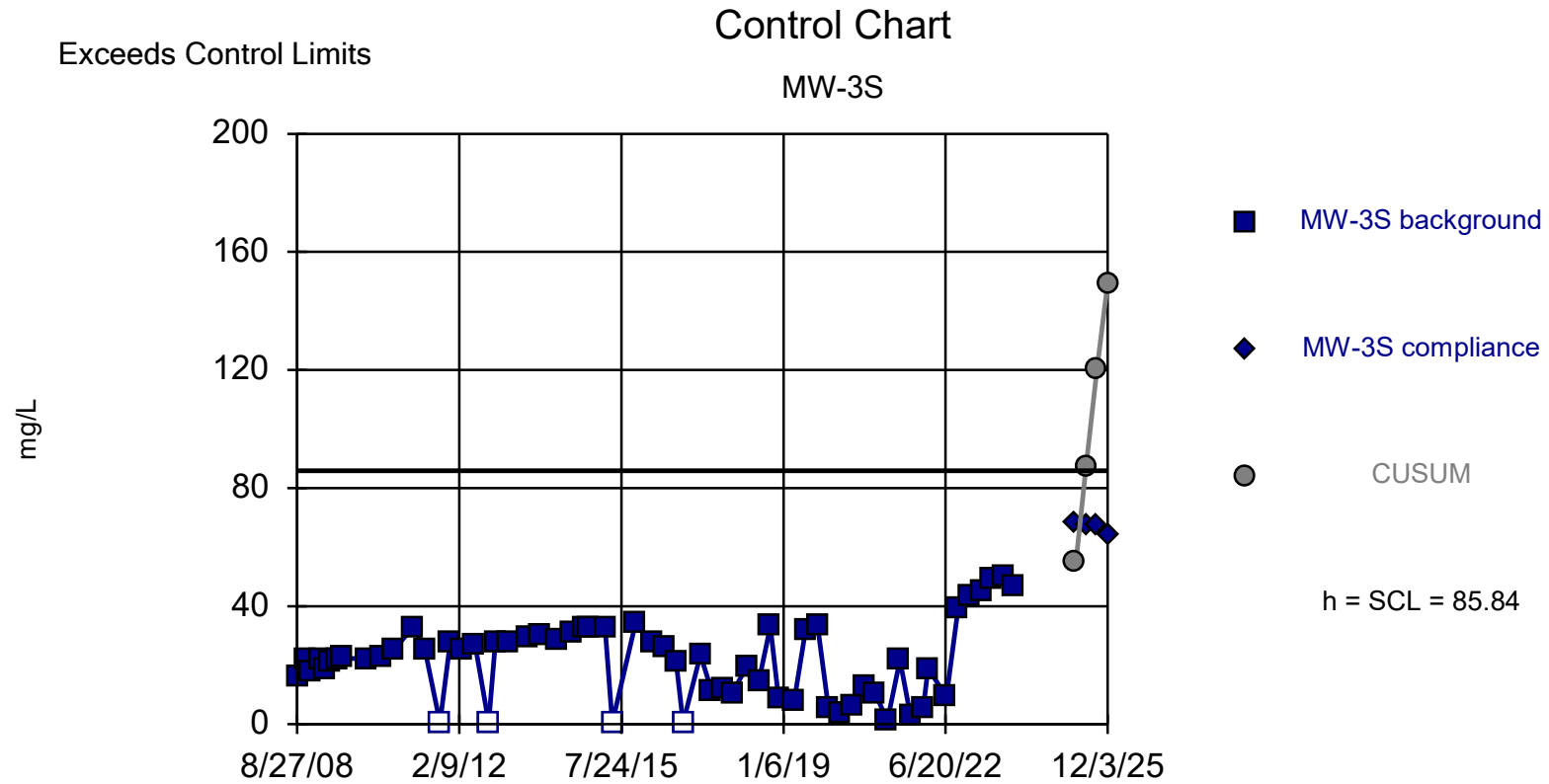
Background Data Summary: Mean=4.912, Std. Dev.=2.819, n=58, 17.24% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.05, calculated = 0.9674, critical = 0.961. Report alpha = 0.00004. Dates ending 12/12/2023 used for control stats. Standardized h=5, SCL=5.

Constituent: Sulfate Analysis Run 2/13/2026 6:42 PM View: 2025 Control Charts - 2008-2023 background
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

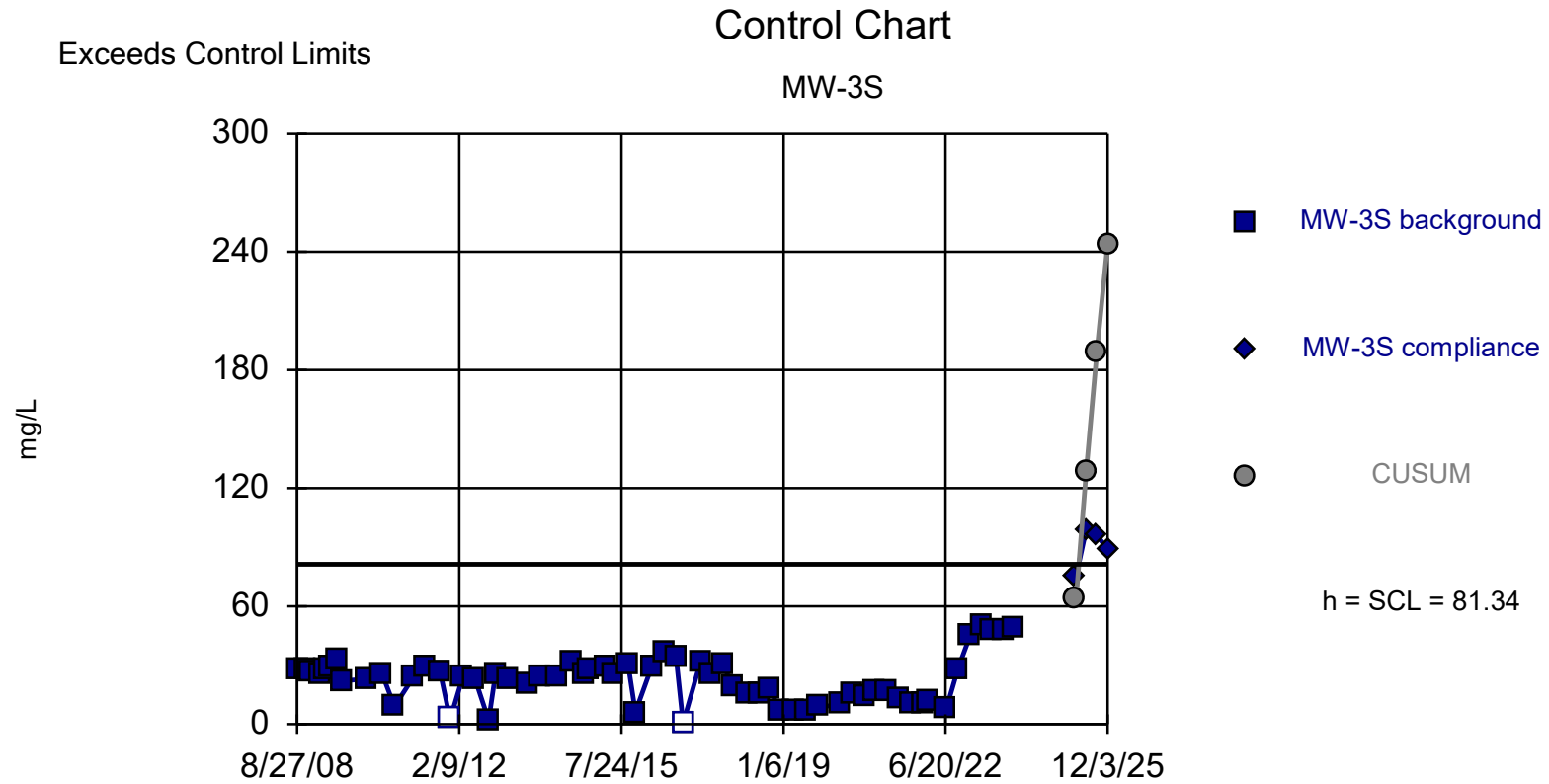


Background Data Summary (based on cube root transformation): Mean=1.453, Std. Dev.=0.2359, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8192, critical = 0.818. Report alpha = 0.004072. Dates ending 8/19/2009 used for control stats. Standardized h=5, SCL=5.

Constituent: Nitrate Analysis Run 2/13/2026 6:40 PM View: 2025 Control Charts - 2008-2009 background
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

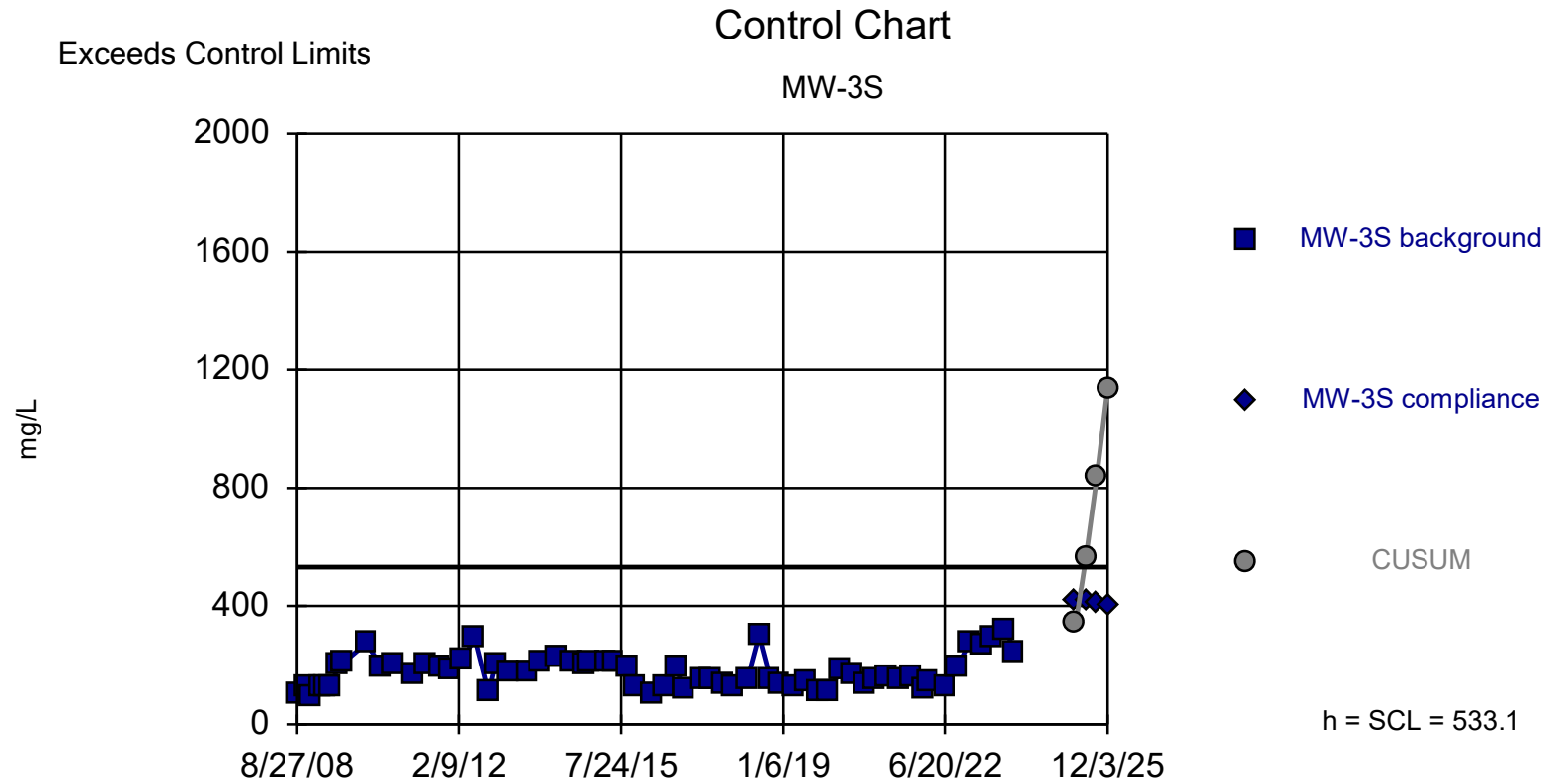


Background Data Summary: Mean=21.8, Std. Dev.=12.81, n=61, 6.557% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.05, calculated = 0.977, critical = 0.962. Report alpha = 0.000044. Dates ending 12/12/2023 used for control stats. Standardized h=5, SCL=5.



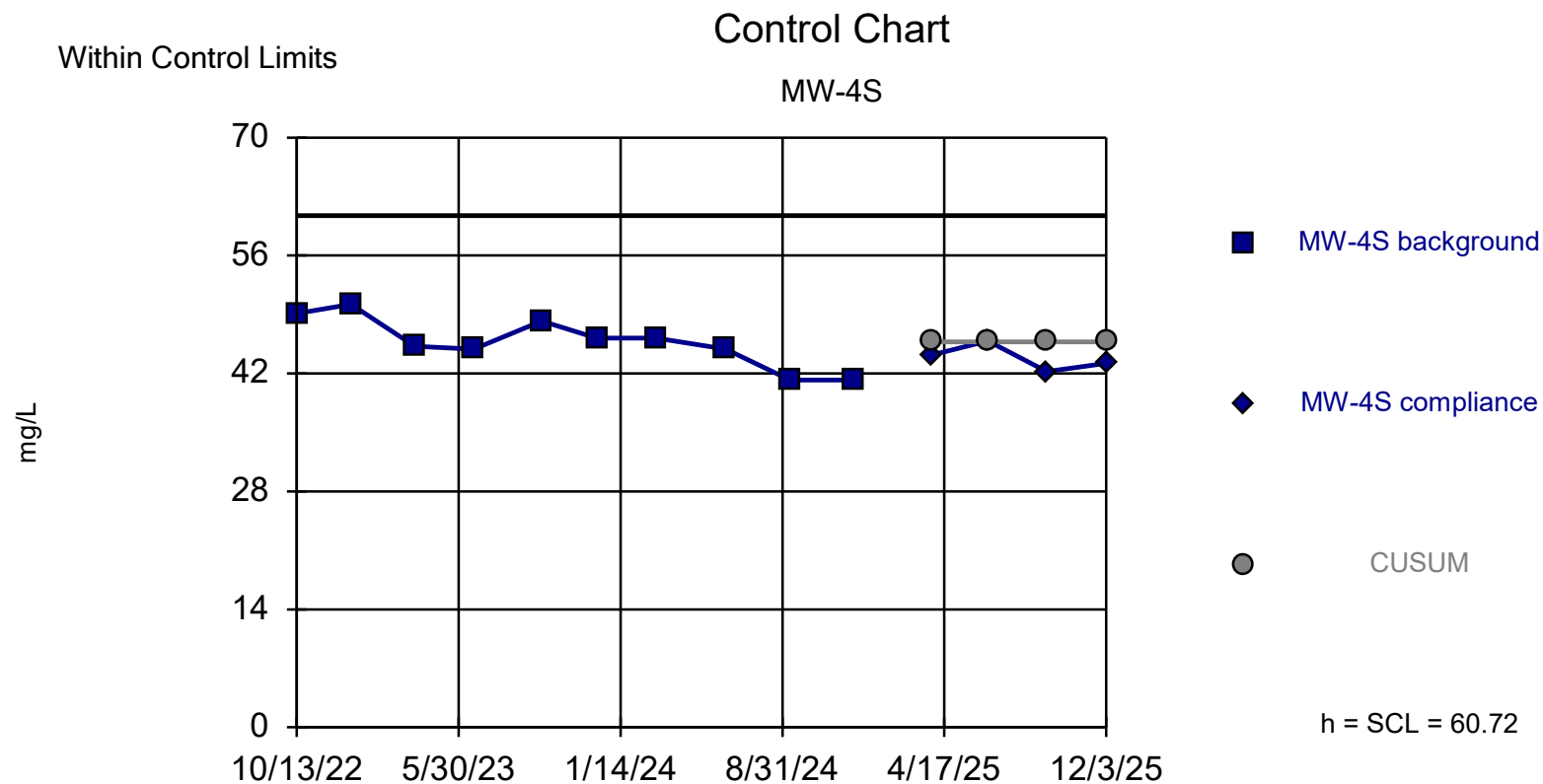
Background Data Summary: Mean=22.68, Std. Dev.=11.73, n=61, 3.279% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.05, calculated = 0.9621, critical = 0.962. Report alpha = 0.000044. Dates ending 12/12/2023 used for control stats. Standardized h=5, SCL=5.

Constituent: Sulfate Analysis Run 2/13/2026 6:42 PM View: 2025 Control Charts - 2008-2023 background
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats



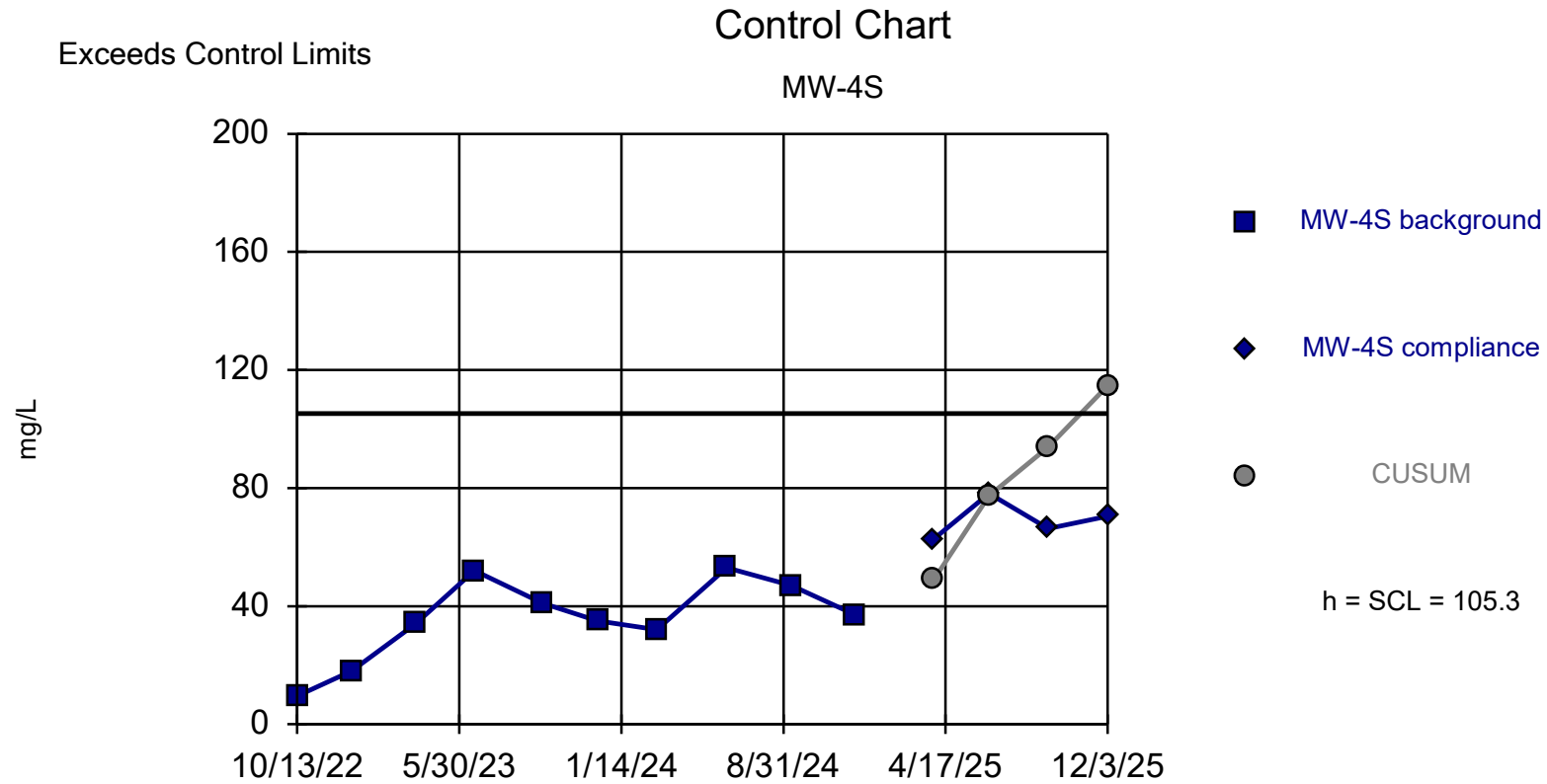
Background Data Summary (based on square root transformation): Mean=13.18, Std. Dev.=1.982, n=62. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.05, calculated = 0.9641, critical = 0.963. Report alpha = 0.000038. Dates ending 12/12/2023 used for control stats. Standardized h=5, SCL=5.

Constituent: TDS Analysis Run 2/13/2026 6:42 PM View: 2025 Control Charts - 2008-2023 background
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats



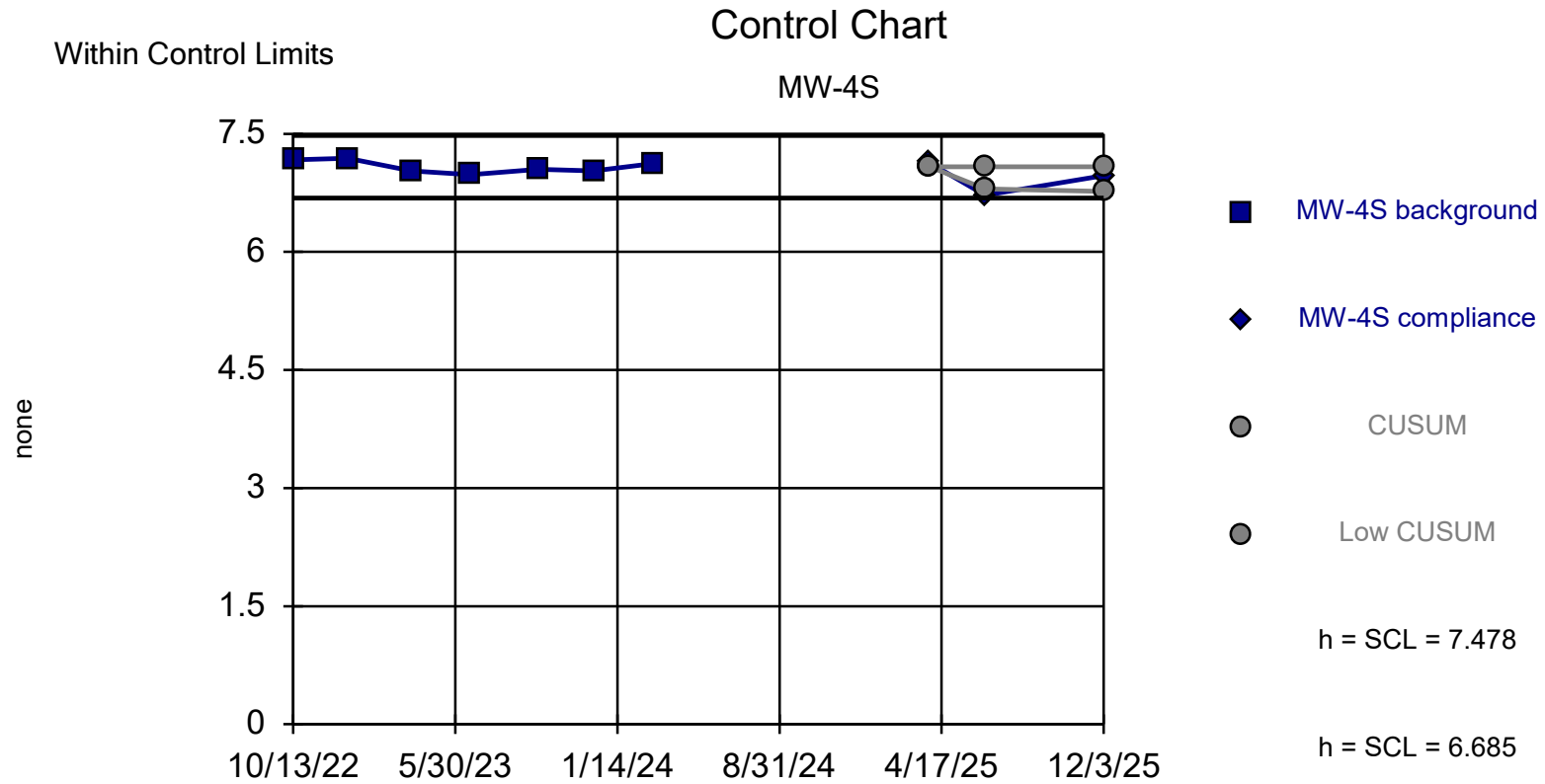
Background Data Summary: Mean=45.74, Std. Dev.=2.996, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9344, critical = 0.842. Report alpha = 0.00213. Dates ending 12/12/2024 used for control stats. Standardized h=5, SCL=5.

Constituent: Chloride Analysis Run 2/13/2026 6:45 PM View: MW-4S Initial Background Evaluation
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats



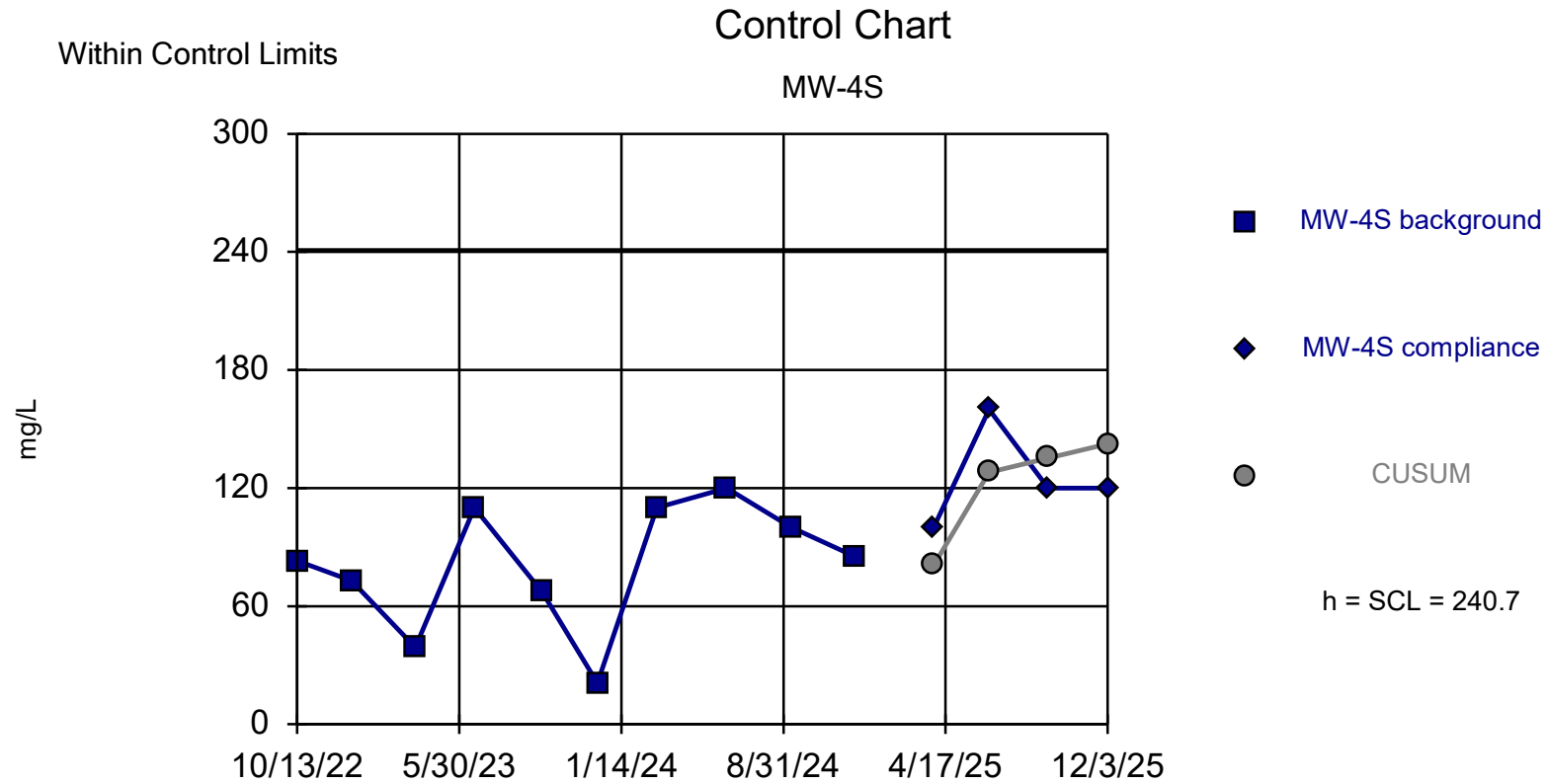
Background Data Summary: Mean=35.86, Std. Dev.=13.88, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9342, critical = 0.842. Report alpha = 0.00213. Dates ending 12/12/2024 used for control stats. Standardized h=5, SCL=5.

Constituent: Nitrate Analysis Run 2/13/2026 6:45 PM View: MW-4S Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats



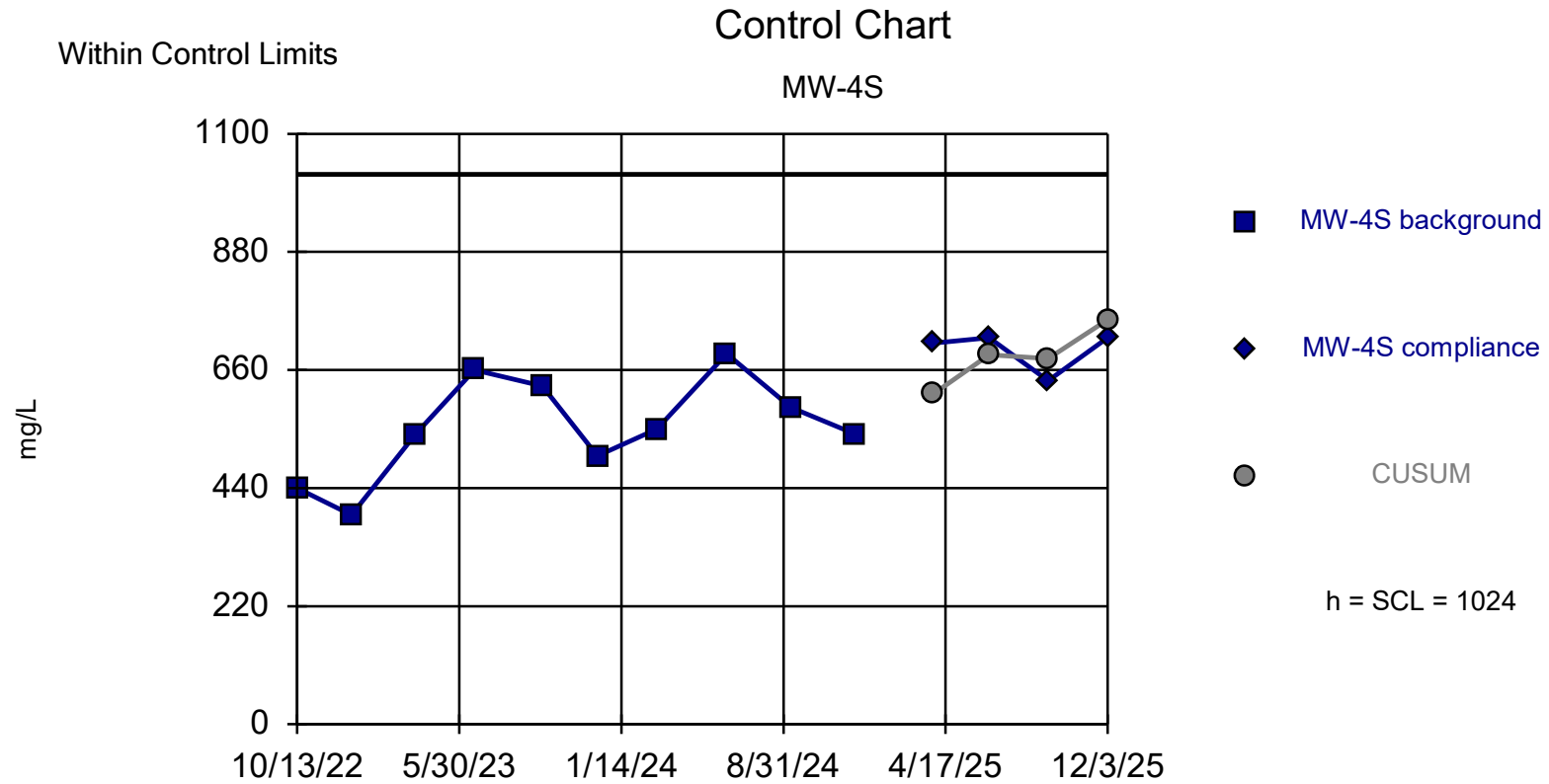
Background Data Summary: Mean=7.081, Std. Dev.=0.07925, n=7. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9174, critical = 0.803. Report alpha = 0.004368. Dates ending 3/5/2024 used for control stats. Standardized h=5, SCL=5.

Constituent: pH Analysis Run 2/13/2026 6:45 PM View: MW-4S Initial Background Evaluation
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats



Background Data Summary: Mean=80.8, Std. Dev.=31.99, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9348, critical = 0.842. Report alpha = 0.002232. Dates ending 12/12/2024 used for control stats. Standardized h=5, SCL=5.

Constituent: Sulfate Analysis Run 2/13/2026 6:45 PM View: MW-4S Initial Background Evaluation
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats



Background Data Summary: Mean=553, Std. Dev.=94.29, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9724, critical = 0.842. Report alpha = 0.002232. Dates ending 12/12/2024 used for control stats. Standardized h=5, SCL=5.

Constituent: TDS Analysis Run 2/13/2026 6:45 PM View: MW-4S Initial Background Evaluation
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Appendix F-2

Descriptive Statistics for
Background Well

Background Well Descriptive Statistics, 2025, Rocky Top Environmental

Constituent	N	Mean	Variance	Standard Deviation	Standard Error	Coefficient of Variation	Median	% Non-Detects
MW-10D (bg)								
Alkalinity, Total (mg/L)	10	97	5.555449	2.357	0.7454	0.024298969	98	0
Ammonia (NH3)	10	0.0565	0.00012254	0.01107	0.0035	0.195929204	0.053	90
Bicarbonate (mg/L)	10	97	5.555449	2.357	0.7454	0.024298969	98	0
Calcium, Dissolved (mg/L)	10	18.5	1.1664	1.08	0.3416	0.058378378	18.5	0
Chloride (mg/L)	10	3.48	0.42850116	0.6546	0.207	0.188103448	3.35	0
Conductivity (umhos/cm)	10	277.3	24398.44	156.2	49.39	0.563288857	232.5	0
Iron, Dissolved (mg/L)	10	0.0554	3.5986E-06	0.001897	0.0006	0.034241877	0.056	100
Iron, Total (mg/L)	10	0.0739	0.00209947	0.04582	0.01449	0.620027064	0.05	70
Magnesium, Dissolved (mg/L)	10	10.97	0.52012944	0.7212	0.2281	0.065742935	11	0
Magnesium, Total (mg/L)	10	11.09	0.56987401	0.7549	0.2387	0.068070334	11	0
Manganese, Dissolved (mg/L)	10	0.0119	1.0323E-05	0.003213	0.001016	0.27	0.011	90
Manganese, Total (mg/L)	10	0.0115	1.4055E-05	0.003749	0.001186	0.326	0.01	80
Nitrate (mg/L)	10	1.443	0.03814209	0.1953	0.06177	0.135343035	1.49	0
pH (none)	9	7.42	0.166464	0.408	0.136	0.054986523	7.36	0
Potassium, Dissolved (mg/L)	10	2.35	0.06943225	0.2635	0.08333	0.11212766	2.3	0
Sodium, Dissolved (mg/L)	10	13.1	1.432809	1.197	0.3786	0.091374046	13	0
Sulfate (mg/L)	10	11.89	1.032256	1.016	0.3213	0.085449958	12	0
TDS (mg/L)	10	180	1355.7124	36.82	11.64	0.204555556	170	0
Total Organic Carbon (mg/L)	10	1	0	0	0	0	1	100

Appendix F-3

2026-2027 Statistical Approach

DATE: March 31, 2026
TO: Ian Sutton, PE, Director of Engineering | DTG Recycling
FROM: Katie Burke, Lisa Gilbert LHG, Mike Brady LHG
SUBJECT: Statistical Evaluation Approach for 2026-2027 Groundwater Monitoring
CC: Laura Lee, Sally Nguyen
PROJECT NUMBER: 553-8472-009
PROJECT NAME: DTG Rocky Top Environmental Limited Purpose Landfill

Introduction

The purpose of this technical memorandum is to present the statistical approach for evaluating groundwater data collected during 2026 and 2027 at the DTG Rocky Top Environmental Limited Purpose Landfill (LPL) located at 41 Rocky Top Road in Yakima, Washington (Facility). Figure 1 shows the overall location of the Facility. Figure 2 shows the details of the Facility including monitoring well locations, lined and unlined cells, the leachate pond, and other operations.

Facility History

The Facility was permitted in 1997 under Chapter 173-304 Washington Administrative Code (WAC) with the Yakima Health District (YHD) as an unlined construction, demolition, and land-clearing debris (CDL) landfill as Anderson Rock and Demolition Pit. The Facility was reclassified as a LPL in 2007 under Chapter 173-350 WAC and two monitoring wells were installed (MW-2S and MW-3S) into the Shallow Aquifer (SA) downgradient of the unlined Phase 1. In 2022, SA monitoring well MW-4S was added downgradient of the LPL. The landfill was re-permitted in 2024 for the Phase 2 lined cell located in the southern portion of the Facility with a new set of monitoring wells (downgradient wells MW-7D, MW-8D, MW-9D and upgradient well MW-10D) completed in the Interflow Zone (IZ).

In 2022, the Washington State Department of Ecology (Ecology) listed the northwest slope of Phase 1 of the LPL as a Model Toxics Control Act (MTCA; Chapter 173-340 WAC) cleanup site. DTG and Ecology negotiated an Agreed Order (AO) that was executed in February 2023 that included performing a limited remedial investigation (RI). Ecology requested the installation of additional downgradient monitoring wells within the SA and testing for additional chemicals of potential concern (COPCs) in groundwater, including per- and polyfluoroalkyl substances (PFAS). As part of the limited RI (Parametrix 2025b), monitoring wells MW-5S and MW-6S were installed in 2024 and monitoring wells MW-1S and MW-11S were installed in 2025. Preliminary findings of the limited RI were presented in an interim action work plan (Parametrix 2026b).

Statistical Approach

The methodology follows U.S. Environmental Protection Agency's (U.S. EPA's) Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, March 2009 (Unified Guidance; U.S. EPA 2009); Washington State Department of Ecology's (Ecology's) landfill monitoring guidance (Ecology 2018); and the statistical approach presented in the Sampling and Analysis Plan (SAP; Parametrix 2026a).



Previous Sampling and Analysis Plans (SAPs; Parametrix 2024b, 2025a) described the approach for evaluating groundwater data collected from wells in the SA (MW-2S, MW-3S, and MW-4S) in conjunction with detection monitoring under Chapter 173-350 WAC. The approach consisted of establishing a subset of parameters for formal detection monitoring and conducting quarterly comparisons of data to intrawell upper prediction limits (UPLs) calculated for each well/parameter case. The approach also included the use of control charts to supplement the UPLs to evaluate whether any trends are occurring that could potentially be attributable to the landfill.

The SA is in assessment monitoring under MTCA due to groundwater quality impacts observed in wells MW-3S, MW-4S, and MW-6S located downgradient of the unlined Phase 1. The impacts have been demonstrated by increasing trends and exceedances of statistical limits in some leachate indicator parameters, exceedances of water quality criteria, and the presence of PFAS compounds (Parametrix 2026c). Based on the limited RI, groundwater quality impacts to the SA appear to be limited to the existing monitoring well network.

The statistical approach has been revised in accordance with the SAP updated in 2026 (Parametrix 2026a) that combined the routine Chapter 173-350 WAC monitoring program with the MTCA monitoring. The revised statistical approach will continue to include detection monitoring but will also address MTCA assessment monitoring to evaluate water quality trends related to Interim Actions completed at the Facility. A different statistical approach has been developed for specific contaminants in the impacted wells to focus on evaluating trends. The other SA wells and the IZ wells have not shown evidence of contamination and are considered to be in detection monitoring under Chapter 173-350 WAC to confirm that impacts related to the Phase 1 unlined LPL continue to be limited to the SA within the existing monitoring well network and that there are no impacts related to operations of the active Phase 2 lined LPL.

The revised statistical approach also incorporates the additional monitoring wells installed in 2024 and 2025. Statistical limits have been updated from those previously established for monitoring wells MW-2S, MW-3S, and MW-4S (Parametrix 2025c) and have been calculated for the first time for wells MW-5S, MW-6S, MW-7D, MW-8D, and MW-9D. In addition, the subset of parameters evaluated statistically has been updated to address site-specific information. A summary of the statistical analysis is presented in Table 1.

Monitoring Well Locations and History

Groundwater quality at the LPL is currently monitored at eleven wells. Ten of the wells are located downgradient of the Facility, including seven in the SA (MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-6S, and MW-11S) and three in the IZ (MW-7D, MW-8D, and MW-9D). One well is located in the IZ upgradient of the Facility (MW-10D).

Monitoring at MW-2S and MW-3S began in 2008. MW-4S was installed in 2022 and has been sampled fourteen times. MW-5S and MW-6S were installed in 2024 and have been sampled eleven times. MW-7D, MW-8D, MW-9D, and MW-10D were also installed in 2024 and have been sampled ten times. Wells MW 1S and MW-11S were installed in 2025 and have been sampled three times.

Updated Monitoring Parameters

The Unified Guidance recommends selecting a subset of monitoring parameters to balance the site-wide false positive rate and the power of the statistical program. These parameters should be limited to a few representative constituents thought to be reliable indicators of a contaminant release, that exhibit a large concentration contrast between leachate and groundwater and are relatively mobile in groundwater.

The previous SAPs (Parametrix 2024b, 2025a) developed UPLs and control charts for the subset of parameters consisting of the typical indicator parameters listed in Chapter 173-350 WAC: ammonia, chloride, dissolved iron, total iron, dissolved manganese, total manganese, nitrate, pH, sulfate, and total dissolved solids (TDS). Since using site-specific information is recommended if possible, the subset of parameters previously developed has been revised to reflect additional site-specific information collected through 2025.

Time-series plots (Attachment A) were reviewed to identify parameters that were relatively elevated in wells with demonstrated impacts. In addition, data from leachate and well MW-4S were compared to uncontaminated conditions at IZ upgradient well MW-10D to estimate contrast ratios (Table 2). Data from impacted well MW-4S has shown the highest concentrations of some indicator parameters and was used in addition to the leachate since the leachate sample collected in 2025 from the Phase 2 leachate pond was relatively dilute due to contribution of storm water and the small volume of waste in the lined cell.

Based on these comparisons, the following eight parameters were found to have a leachate to groundwater contrast ratio of at least 3:1 and were selected for formal statistical analysis: dissolved calcium, chloride, dissolved iron, dissolved magnesium, nitrate, sulfate, total dissolved solids (TDS), and total organic carbon (TOC). Total alkalinity, while having a 2:1 contrast ratio, was selected based on review of the time-series plot (Attachment A) which shows total alkalinity in MW-4S to be considerably elevated compared to the other wells.

Field parameters (conductivity, pH, and temperature) were excluded from consideration as they are subject to more uncertainty compared to analyses completed by the laboratory. Total metals were also not selected even though many exceeded a 3:1 ratio because metals are known to have relatively low mobility in groundwater and elevated results are typically variable and often reflect elevated turbidity in the sample.

Background Data Set Evaluation

Available data were evaluated to select those appropriate for use as statistical background. Factors considered that could potentially affect the data included laboratory changes, potential statistical outliers, and incomplete well development.

Laboratory Changes

Previous statistical limits for wells MW-2S and MW-3S considered data collected beginning in 2008 (Parametrix 2025c). Recent data have confirmed that the change in laboratories is correlated with notable changes in some sample results, possibly due to differences in analytical methods, instrumentation, quality control, or reporting limits.

In the fourth quarter of 2022, the laboratory analyzing the samples for all parameters except nitrate was changed from LabTest in Yakima, Washington and subcontractor AmTest Inc. in Kirkland, Washington to Onsite Environmental Inc. (Onsite) in Redmond, Washington (Parametrix 2024a). Nitrate samples continued to be sampled at LabTest. LabTest reported non-detection (ND) results at the detection limit (DL) while Onsite reports NDs at the practical quantitation limit (PQL) also referred to as the reporting limit (RL).

Laboratory changes in the MW-2S and MW-3S data are evident in the time-series plots (Attachment A) and are most pronounced for alkalinity. The alkalinity data between 2008 and approximately 2018 showed variability, while the data collected from 2018 through third quarter of 2022 were less variable and had a consistent downward trend. Data collected since the fourth quarter of 2022 were

more variable and relatively consistent with the pre-2018 data, although an upward trend was present in well MW-3S.

Since a large enough data set has been collected since the laboratory change, data collected prior to the fourth quarter of 2022 were removed from the background data set for wells MW-2S and MW-3S for all parameters except nitrate. Removing the pre-fourth quarter 2022 data from the background data set results in less variability and therefore more sensitive limits consistent with the Unified Guidance (EPA 2009). Increasing trends did not affect the statistical limits because these data were removed during the data evaluation process.

Identification of Potential Outliers

The revised data sets consisting of the fourth quarter 2022 through 2025 data for all parameters except nitrate, and all data for nitrate, were tested to identify potential outliers. While a value identified as an outlier may represent an actual outlier or error (e.g., a laboratory reporting error), it may also represent a portion of the background population, and therefore the outliers identified by the statistical tests were reviewed and confirmed before excluding them from the statistical tests. Results of these tests are summarized in Table 3 and Attachment B.

Consistent with the Unified Guidance (EPA 2009) an interquartile range (IQR) multiplier of 3.0 ($3.0 \times \text{IQR}$) was used to identify statistical outliers for data sets tested using non-parametric (Tukey's) outlier tests. This test is recommended due to the small data sets ($n < 20$) to prevent the over exclusion of natural background conditions which may not yet be seen. An IQR multiplier of 1.5 was used for nitrate.

High statistical outliers identified through these tests were excluded from the data sets. Low statistical outliers were typically retained in the data sets. The following outliers were found and removed from the data set: nitrate in MW-2S in first quarter 2014, fourth quarter 2016, and fourth quarter 2023; dissolved calcium, dissolved magnesium, dissolved potassium, sulfate, and TOC in MW-5S in first quarter 2025; and TDS in MW-8D in first quarter 2025.

Incomplete Well Development

Any outliers identified in the initial sample data collected at MW-5S, MW-6S, and all IZ wells were excluded from the background data set because they were collected before the wells had been completely developed and are not representative of background.

Statistical Approach and Calculations for 2026 through 2027

Analysis of Variance within the Interflow Zone

A review of spatial variance using analysis of variance (ANOVA) was conducted for the IZ wells, comparing the upgradient well (MW-10D) to downgradient wells (MW-7D, MW-8D, and MW-9D) to evaluate whether the intrawell comparison approach is appropriate or whether an interwell evaluation approach should be considered.

For each parameter, at least one well exhibited concentrations that were significantly higher or lower than the upgradient well. Because spatial variation was present across all well/parameter cases, intrawell comparisons will be used to calculate UPLs and develop control charts for the IZ wells. The ANOVA results are presented in Attachment E.

Statistical Evaluation Steps

The following text summarizes the steps taken to evaluate the groundwater data from the eight compliance wells to establish a background data set for use in calculating intrawell UPLs, control charts, and trend analyses. All statistical analyses were conducted using Sanitas™ (10.1.06).

1. Identify results exceeding the UPLs or MCLs for two or more consecutive monitoring events. The following data exceeded UPLs or MCLs in two or more consecutive quarters in the SA and moved directly to trend analysis:
 - Well/parameters cases that exceeded the established UPLs in 2025 (chloride, nitrate, sulfate, and TDS in MW-3S; Table 4).
 - Well/parameter cases where MCLs were exceeded for two or more consecutive sampling events (nitrate in wells MW-3S, MW-4S, and MW-6; TDS in MW-4S; Table 4). Although nitrate in MW-6S exceeded the MCL in two consecutive sampling events, the first quarter A event exceedance was disconfirmed as an outlier.
2. For all data except nitrate in well MW-2S and those parameters that moved directly to trend analysis, the following steps were followed:
 - Remove data collected prior to fourth quarter 2022.
 - Identify any significant high outliers and remove them from the data set.
 - Evaluate trends in the data using the Sen's Slope/Mann-Kendall test.
 - If no significant increasing trends are observed, calculate UPLs and control charts.
 - For wells with significant increasing trends, do not calculate UPLs and control charts, instead use trend tests to evaluate future data.
3. For nitrate in MW-2S the following steps were followed:
 - Identify any significant outliers and remove from the data set.
 - Identify any significant differences between the eight initial data points (2008 through 2009) and subsequent compliance data (2010 through 2025) using Welch's/Mann-Whitney test.
 - If there are no significant differences, evaluate trends in the data using the Sen's Slope/Mann-Kendall test.
 - If there is not a significant increasing trend, calculate the UPL and control chart.
 - If there is a significant increasing trend, do not calculate the UPL and control chart, instead use trend tests to evaluate future data.

Welch's/Mann-Whitney Tests

A Welch's/Mann-Whitney test was conducted for nitrate in well MW-2S to determine whether the 2010-2025 data were significantly different from (higher than) the 2008–2009 data. Results of these tests are presented in Attachment C. The results of the test indicate the difference in the background was not significant and therefore, a Sen's Slope/Mann-Kendall test was used to evaluate significant trends (Table 1).

Sen's Slope/Mann-Kendall Trend Tests

Sen's Slope/Mann-Kendall tests were used to determine whether increasing trends were present in the data. Results of these tests are summarized in Table 5 and Attachment D.

For those well/parameter cases where there were no significant increasing trends, UPLs and control charts were calculated using the fourth quarter 2022 to fourth quarter 2025 data (nitrate in MW-2S used 2008 through 2025 data), excluding outliers and other flagged data (Table 1). If an increasing significant trend was identified, trend tests will be used to evaluate future data. Although an increasing trend was observed for sulfate at IZ well MW-8D, it is not believed to have been caused by leachate impacts, and any future statistically significant increases will be identified through comparisons with the UPL and control limits.

Upper Prediction Limits

Intrawell UPLs were calculated using the background data sets determined from the previous steps. As specified in the SAP, these calculations were based on a 1-of-2 retesting scheme, which assumes that two samples will be collected for a particular constituent at a given well, including the initial groundwater sample and one resample. UPL calculations are summarized in Table 6 and Attachment F.

Control Charts

Control charts were also calculated using the background data sets determined from the previous steps and a 1-of-2 retesting scheme. Because control charts can only be calculated if data are normally distributed (either raw or transformed) and there are fewer than 50% non-detects, Sanitas calculated prediction limits where these assumptions were not met. Only the following control charts could be calculated:

- Alkalinity, total at MW-4S, MW-7D, and MW-9D
- Calcium, dissolved at MW-4S, MW-5S, MW-8D, and MW-9D
- Chloride at MW-2S, MW-4S, MW-5S, MW-6S, MW-7D, MW-8D, and MW-9D
- Iron, dissolved at MW-5S and MW-7D
- Magnesium, dissolved at MW-2S, MW-4S, MW-5S, MW-6S, and MW-8D
- Nitrate at MW-8D
- Potassium, dissolved at MW-3S, MW-4S, MW-5S, MW-6S, MW-7D, MW-8D, and MW-9D
- Sulfate at MW-2S, MW-4S, MW-5S, MW-8D, and MW-9D
- TDS at MW-2S, MW-6S, MW-7D, MW-8D, and MW-9D
- TOC at MW-3S, MW-4S, MW-6S, and MW-9D

UPLs were calculated for the other well/parameter cases. Results of these tests are summarized in Table 7 and Attachment G.

Trend Analyses

For those well/parameter cases that exceeded UPLs and/or MCLs for two or more consecutive quarters in 2024 and 2025 or exhibited increasing trends in the 2022 through 2025 data, Sen's

Slope/Mann-Kendall tests will be used to evaluate trends in the data. The following well/parameter cases will be evaluated through trend analyses:

- Alkalinity, total at MW-3S and MW-6S
- Dissolved calcium at MW-3S and MW-4S
- Chloride at MW-3S
- Dissolved magnesium at MW-3S
- Nitrate at MW-3S, MW-4S, and MW-6S
- Sulfate at MW-3S
- TDS at MW-3S and MW-4S

The upper confidence interval of the trend for the most recent eight quarters of data will be compared to the MCL or to background if natural background conditions exceed these criteria to determine if it has decreased below compliance levels. Trends in the background data set for these well/parameter cases are summarized in Table 9 and Attachment H.

PFAS analyses have been added to the routine detection monitoring for the SA wells in 2025 in accordance with the updated SAP (Parametrix 2026a). Trends in the most recent eight data points for Perfluorooctanoic acid (PFOA) will be evaluated for wells MW-3S, MW-4S, and MW-6S on a quarterly basis using Mann-Kendall/Sen's Slope analyses. There are currently only six or seven quarters of MTCA data available for PFAS, so the trend analyses will likely begin starting in the second quarter of 2026.

The trend analysis will be used to monitor water quality trends related to interim actions completed at the Facility (Parametrix 2026b). PFOA is the only PFAS analyte currently detected at concentrations exceeding the MCL. If additional PFAS compounds are found to exceed the MCL, they will be evaluated using trend analyses. Additionally, PFAS Hazard Index calculations will continue to be evaluated for Hexafluoropropylene oxide dimer acid (HFPO-DA), [Perfluorobutanesulfonic acid](#) (PFBS), Perfluorohexanesulfonic acid (PFHxS), and [Perfluorononanoic acid \(PFNA\)](#) using the running average of the last 1 year (typically four quarters) of data.

Double Quantification Rule

For those well/parameter cases that contain 100% non-detections at the reporting limits formal statistics will not be calculated. Instead, the double quantification rule (DQR) will apply. If the parameters are detected above the current reporting limit for two consecutive sampling events it would be a confirmed SSI. The following wells/ parameters will be calculated using the DQR:

- Dissolved iron at MW-2S, MW-4S, MW-6S
- Sulfate at MW-7D
- TOC at MW-2S, MW-7D, and MW-8D

References

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- Sanitas Technologies. 2026. Sanitas™, Version 10.1.06. Loveland, CO.

Figures

- 1 Facility Vicinity Map
- 2 Well Location Map

Tables

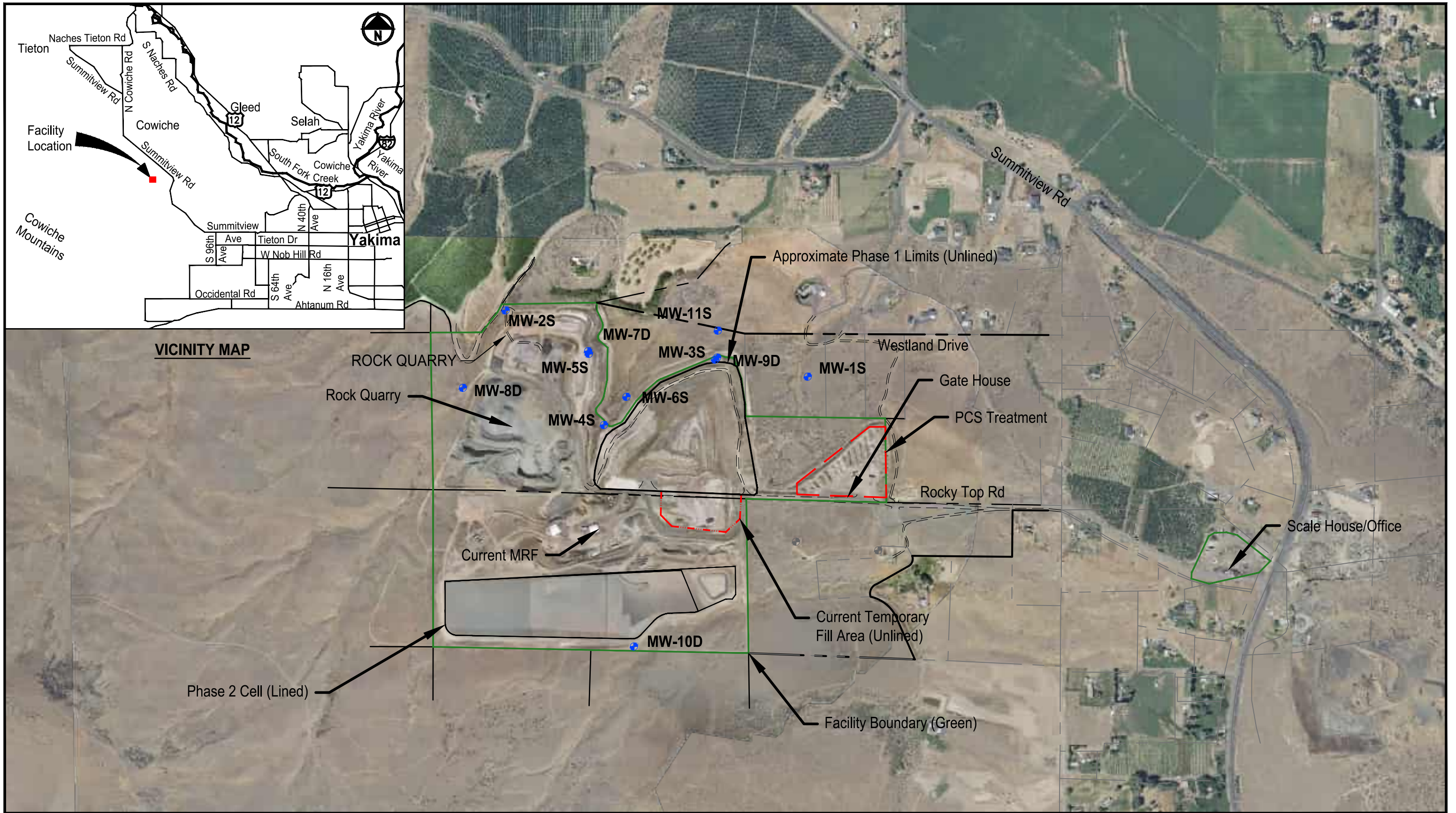
- 1 Statistical Analysis Summary
- 2 Comparison of 2025 Upgradient Groundwater to Leachate and Leachate-Impacted Well (MW-4S) Monitoring Results
- 3 Summary of Statistical Outlier Analysis
- 4 Upper Prediction Limit Comparison and MCL Summary 2025
- 5 Sen's Slope/Mann-Kendall Trend Tests
- 6 Upper Prediction Limits for 2026-2027
- 7 Control Charts for 2026-2027
- 8 Trend Tests for Assessment Monitoring

Attachments

- A Time-Series Plots
- B Outlier Test Results
- C Welch's/Mann-Whitney Test Results
- D. Sen's Slope/Mann-Kendall Trend Tests
- E Analysis of Variance
- F Upper Prediction Limits for 2026-2027
- G Control Charts for 2026-2027
- H Trend Evaluation for Assessment Monitoring

Figures

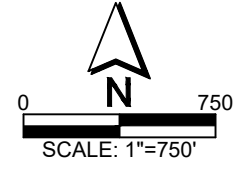




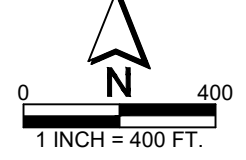
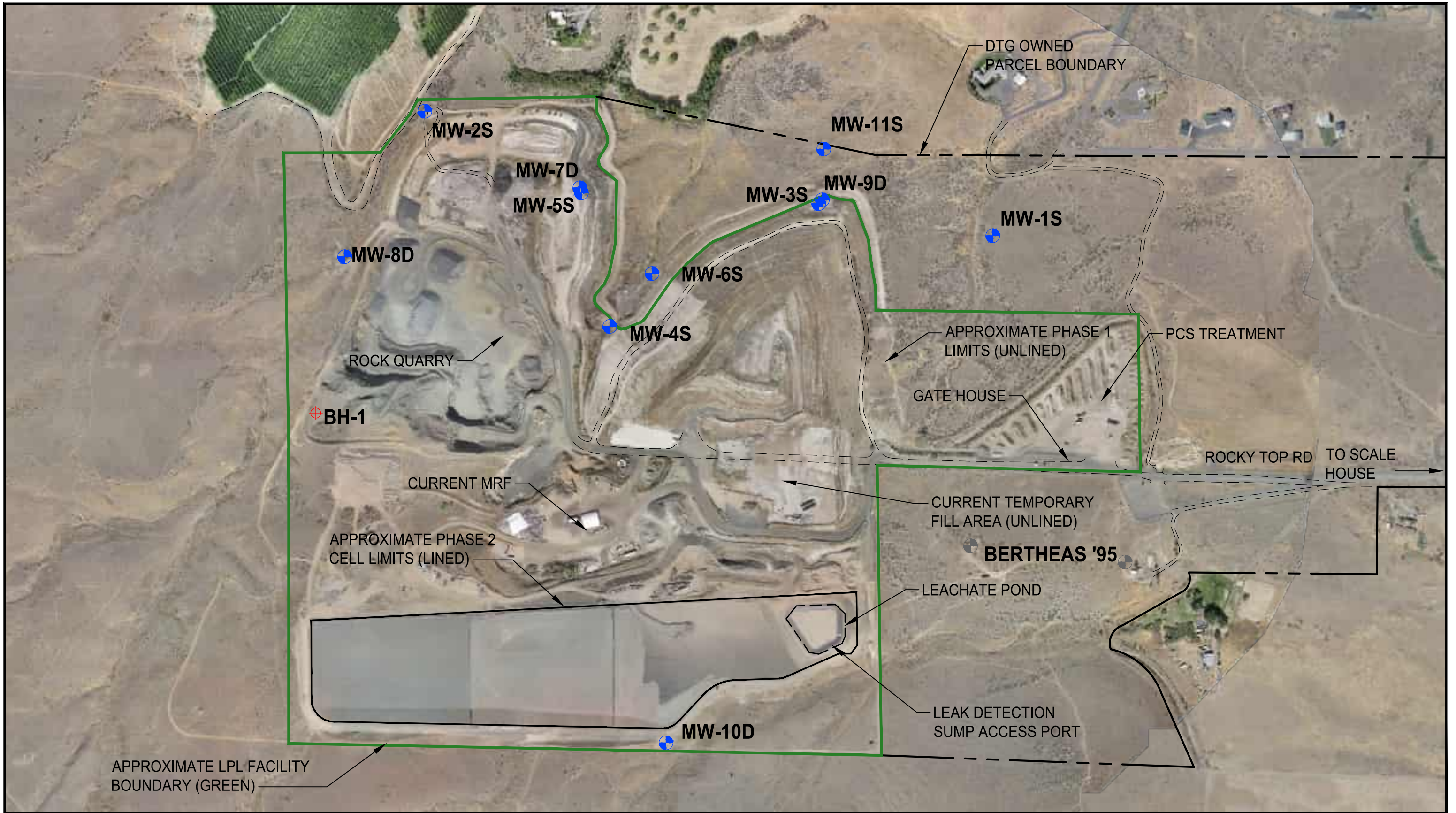
VICINITY MAP

Parametrix DATE: October 27, 2025 FILE: PS8472008-FIGURE 1 - VICINITY MAP

Monitoring Well



**Figure 1
Facility Vicinity Map
Rocky Top Environmental Limited Purpose Landfill**



- ⊕ Monitoring Well
- ⊕ Borehole
- ⊕ Decommissioned Well

Figure 2
Well Location Map
Rocky Top Environmental Limited Purpose Landfill

Tables

Table 1. Statistical Analysis Summary, Rocky Top Environmental Limited Purpose Landfill

Parameter	MW-2S	MW-3S
Alkalinity, total	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	No outliers Test for trend - significant increasing trend Trend Analysis
Calcium, dissolved	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	No outliers Test for trend - significant increasing trend Trend Analysis
Chloride	No outliers Test for trend - no significant trend Calculate UPL and Control using 4Q22-4Q25	No outliers test (all 2025 results exceed 2024 UPL) All 2025 results exceed 2024 UPL Trend Analysis
Iron, dissolved	No outliers Test for trend - no significant trend 100% NDs DQR	No outliers (too many NDs for valid test) Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25
Magnesium, dissolved	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	No outliers Test for trend - significant increasing trend Trend Analysis
Nitrate	Outliers: 3 high outlier and 8 low outliers (high outliers O-flagged) Background not significantly different from compliance Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers test (all 2025 results exceed 2024 UPL) All 2025 results exceed the MCL and 2024 UPL Trend Analysis
Potassium, dissolved	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	Outliers: 1 low outlier (not O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25
Sulfate	Outliers: 1 low outlier (not O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	No outliers test (all 2025 results exceed 2024 UPL) All 2025 results exceed 2024 UPL Trend Analysis
TDS	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 2Q24-4Q25	No outliers test (all 2025 results exceed 2024 UPL) All 2025 results exceed 2024 UPL Trend Analysis
TOC	No outliers Test for trend - no significant trend 100% NDs DQR	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25

Notes:

- O-flag = Outliers flag in database
- Z-flag = initial sample flag in database
- ND = non-detect
- DQR = Double Quantitation Rule
- UPL = upper prediction limit

Table 1. Statistical Analysis Summary, Rocky Top Environmental Limited Purpose Landfill

Parameter	MW-4S	MW-5S
Alkalinity, total	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Calcium, dissolved	No outliers Test for trend - significant increasing trend Trend Analysis	Outliers: 1 high (O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
Chloride	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	Outliers: 1 visual (O-flagged) and 1 low (Z-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
Iron, dissolved	No outliers Test for trend - no significant trend 100% NDs DQR	Outliers: 1 visual outlier (O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
Magnesium, dissolved	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	Outliers: 1 high (O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
Nitrate	No outliers All 2025 results exceed the MCL. Trend Analysis	No outliers (too many NDs for valid test) Test for trend - no significant trend Calculate UPL and Control Chart using all data
Potassium, dissolved	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	Outliers: 1 high (O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
Sulfate	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	Outliers: 1 high (O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
TDS	No outliers All 2025 results exceeded the MCL. Trend Analysis	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
TOC	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using 4Q22-4Q25	Outliers: 1 high (O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data

Notes:

- O-flag = Outliers flag in database
- Z-flag = initial sample flag in database
- ND = non-detect
- DQR = Double Quantitation Rule
- UPL = upper prediction limit

Table 1. Statistical Analysis Summary, Rocky Top Environmental Limited Purpose Landfill

Parameter	MW-6S	MW-7D
Alkalinity, total	No outliers Test for trend - significant increasing trend Trend Analysis using all data	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Calcium, dissolved	Outliers: 1 low (Z-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Chloride	Outliers: 1 low (Z-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Iron, dissolved	No outliers (too many NDs for valid test) Test for trend - no significant trend 100% NDs DQR	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Magnesium, dissolved	Outliers: 1 low (Z-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Nitrate	No outliers All 2025 results exceed the MCL Trend Analysis	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Potassium, dissolved	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Sulfate	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers Test for trends - no significant trend 100% NDs DQR
TDS	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
TOC	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers Test for trend - no significant trend 100% NDs DQR

Notes:

- O-flag = Outliers flag in database
- Z-flag = initial sample flag in database
- ND = non-detect
- DQR = Double Quantitation Rule
- UPL = upper prediction limit

Table 1. Statistical Analysis Summary, Rocky Top Environmental Limited Purpose Landfill

Parameter	MW-8D	MW-9D
Alkalinity, total	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Calcium, dissolved	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data	Outliers: 1 high (O- and Z-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
Chloride	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data	Outliers: 1 high outlier (O- and Z-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
Iron, dissolved	No outliers: (too many NDs for valid test) Test for trend - no significant trend 100% NDs DQR	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Magnesium, dissolved	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Nitrate	Outliers: 1 low outlier (Z-flagged) Test for trend - significant trend is decreasing, not increasing Calculate UPL and Control Chart using all data	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data
Potassium, dissolved	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data	Outliers: 1 low outlier (Z-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
Sulfate	No outliers Test for trends - significant increasing trend (likely not related to leachate impacts) Calculate UPL and Control Chart using all data	Outliers: 1 high outlier (O- and Z-flagged) Test for trends - no significant trend Calculate UPL and Control Chart using all data
TDS	Outliers: 1 high outlier (not O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data	Outliers: 1 high (O-flagged) and 1 low (not O-flagged) Test for trend - no significant trend Calculate UPL and Control Chart using all data
TOC	No outliers Test for trend - no significant trend 100% NDs DQR	No outliers Test for trend - no significant trend Calculate UPL and Control Chart using all data

Notes:

- O-flag = Outliers flag in database
- Z-flag = initial sample flag in database
- ND = non-detect
- DQR = Double Quantitation Rule
- UPL = upper prediction limit

Table 2. Comparison of Upgradient Groundwater to Leachate and Leachate-Impacted Well (MW-4S) Monitoring Results, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	Average		Leachate	Ratio	
		MW-10D	MW-4S		MW-4S:MW-10D	Leachate:MW-10D
Alkalinity, Total	mg/L	97	155	64	2:1	1:1
Ammonia	mg/L NH3	0.0565	0.06523	0.053	1:1	1:1
Bicarbonate	mg/L	97	155	36	2:1	0:1
Calcium, Dissolved	mg/L	18.50	81.31	26	4:1	1:1
Chloride	mg/L	3.48	45.2	3.2	13:1	1:1
Conductivity	umhos/cm	277.3	939.5	187.8	3:1	1:1
Iron, Dissolved	mg/L	0.0554	0.05414	0.27	1:1	5:1
Iron, Total	mg/L	0.0739	0.04943	0.27	1:1	4:1
Magnesium, Dissolved	mg/L	10.97	57.66	9.4	5:1	1:1
Magnesium, Total	mg/L	11.09	56.86	9.4	5:1	1:1
Manganese, Dissolved	mg/L	0.0119	0.01093	0.019	1:1	2:1
Manganese, Total	mg/L	0.0115	0.00971	0.019	1:1	2:1
Nitrate	mg/L	1.443	45.46	4.45	32:1	3:1
pH	none	7.42	7.039	7.63	1:1	1:1
Potassium, Dissolved	mg/L	2.35	6.276	1.8	3:1	1:1
Sodium, Dissolved	mg/L	13.1	21.44	12	2:1	1:1
Sulfate	mg/L	11.89	93.43	44	8:1	4:1
TDS	mg/L	180	594.3	140	3:1	1:1
Total Organic Carbon	mg/L	1	4.671	8.6	5:1	9:1

Notes:

BOLD = Parameters selected for statistical comparisons

Dissolved calcium, iron, magnesium, manganese, potassium, and sodium are total for leachate

Leachate sampled first quarter 2025

MW-10D sampled third quarter 2024 to fourth quarter 2025

MW-4S sampled third quarter 2022 to fourth quarter 2025

Table 3. Summary of Statistical Outlier Analysis, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Outlier Found?	Outlier Value(s)	Date(s)	Method	Alpha	N	Mean	Standard Deviation	Distribution	Normality Test
MW-2S										
Alkalinity, Total (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	80.62	2.631	unknown	ShapiroWilk
Calcium, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	12.77	0.5991	unknown	ShapiroWilk
Chloride (mg/L)	No	n/a	n/a	EPA 1989	0.05	13	2.523	0.5069	ln(x)	ShapiroWilk
Iron, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	0.056	0	unknown	ShapiroWilk
Magnesium, Dissolved (mg/L)	No	n/a	n/a	EPA 1989	0.05	13	8.908	0.3353	normal	ShapiroWilk
Nitrate (mg/L)	Yes	0.1, 6.95, 0.06, 0.1, 0.1, 0.1, 0.1, 0.1, 3.98, 0.1, 4.2	2/24/2009, 3/20/2014, 9/30/2014, 11/10/2015, 6/27/2016, 3/31/2017, 11/17/2016, 9/26/2022, 11/17/2023	NP (nrm)	NaN	68	0.8616	1.042	unknown	ShapiroFrancia
Potassium, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	3.069	0.2562	unknown	ShapiroWilk
Sulfate (mg/L)	Yes	2.5	4/1/2025	Dixon`s	0.05	13	5.569	1.095	normal	ShapiroWilk
TDS (mg/L)	No	n/a	n/a	EPA 1989	0.05	13	133	21.53	normal	ShapiroWilk
Total Organic Carbon (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	1	0	unknown	ShapiroWilk
MW-3S										
Alkalinity, Total (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	82.46	13.67	unknown	ShapiroWilk
Calcium, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	40.38	9.06	unknown	ShapiroWilk
Iron, Dissolved (mg/L)	n/a	n/a	n/a	NP (nrm)	NaN	13	0.05846	0.008875	unknown	ShapiroWilk
Magnesium, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	29.31	6.277	unknown	ShapiroWilk
Potassium, Dissolved (mg/L)	Yes	3.2	6/18/2024	Dixon`s	0.05	13	4.323	0.4969	normal	ShapiroWilk
Total Organic Carbon (mg/L)	No	n/a	n/a	EPA 1989	0.05	13	2.777	0.3059	normal	ShapiroWilk
MW-4S										
Alkalinity, Total (mg/L)	No	n/a	n/a	EPA 1989	0.05	13	156.9	22.13	normal	ShapiroWilk
Calcium, Dissolved (mg/L)	No	n/a	n/a	Dixon`s	0.05	13	84.08	16.09	normal	ShapiroWilk
Chloride (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	44.92	6.048	unknown	ShapiroWilk
Iron, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	0.056	0	unknown	ShapiroWilk
Magnesium, Dissolved (mg/L)	No	n/a	n/a	Dixon`s	0.05	13	59.54	11.73	normal	ShapiroWilk
Nitrate (mg/L)	No	n/a	n/a	EPA 1989	0.05	13	48.22	17.57	normal	ShapiroWilk
Potassium, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	13	6.385	0.5414	unknown	ShapiroWilk
Sulfate (mg/L)	No	n/a	n/a	Dixon`s	0.05	13	94.23	37.16	normal	ShapiroWilk
TDS (mg/L)	No	n/a	n/a	Dixon`s	0.05	13	606.2	99.38	normal	ShapiroWilk
Total Organic Carbon (mg/L)	No	n/a	n/a	EPA 1989	0.05	13	4.746	1.3	normal	ShapiroWilk

Table 3. Summary of Statistical Outlier Analysis, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Outlier Found?	Outlier Value(s)	Date(s)	Method	Alpha	N	Mean	Standard Deviation	Distribution	Normality Test
MW-5S										
Alkalinity, Total (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	104.8	7.068	unknown	ShapiroWilk
Calcium, Dissolved (mg/L)	Yes	60	2/13/2025	Dixon`s	0.05	10	31.9	10.28	normal	ShapiroWilk
Chloride (mg/L) ¹	Yes	4.2, 77	6/13/2024, 2/13/2025	NP (nrm)	NaN	11	24.38	18.52	unknown	ShapiroWilk
Iron, Dissolved (mg/L) ¹	Yes	0.92	2/13/2025	EPA 1989	0.05	10	0.2595	0.2571	ln(x)	ShapiroWilk
Magnesium, Dissolved (mg/L)	Yes	42	2/13/2025	Dixon`s	0.05	10	21.3	7.587	normal	ShapiroWilk
Nitrate (mg/L)	n/a	n/a	n/a	NP (nrm)	NaN	11	0.1259	0.08104	unknown	ShapiroWilk
Potassium, Dissolved (mg/L)	Yes	5.2	2/13/2025	Dixon`s	0.05	10	3.57	0.6684	normal	ShapiroWilk
Sulfate (mg/L)	Yes	160	2/13/2025	Dixon`s	0.05	11	66.55	35.85	normal	ShapiroWilk
TDS (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	238	43.41	unknown	ShapiroWilk
Total Organic Carbon (mg/L)	Yes	4	2/13/2025	NP (nrm)	NaN	10	1.37	0.9499	unknown	ShapiroWilk
MW-6S										
Alkalinity, Total (mg/L)	No	n/a	n/a	EPA 1989	0.05	11	88.18	4.936	normal	ShapiroWilk
Calcium, Dissolved (mg/L)	Yes	31	6/13/2024	Dixon`s	0.05	11	43.55	4.967	normal	ShapiroWilk
Chloride (mg/L)	Yes	50	6/13/2024	Dixon`s	0.05	11	61.73	4.474	normal	ShapiroWilk
Iron, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	11	0.056	0	unknown	ShapiroWilk
Magnesium, Dissolved (mg/L)	Yes	22	6/13/2024	Dixon`s	0.05	11	30	3.55	normal	ShapiroWilk
Nitrate (mg/L)	No	n/a	n/a	EPA 1989	0.05	11	11.48	2.728	normal	ShapiroWilk
Potassium, Dissolved (mg/L)	No	n/a	n/a	EPA 1989	0.05	11	4.336	0.4864	normal	ShapiroWilk
Sulfate (mg/L)	No	n/a	n/a	EPA 1989	0.05	11	57	6.663	normal	ShapiroWilk
TDS (mg/L)	No	n/a	n/a	EPA 1989	0.05	11	323.6	75.14	normal	ShapiroWilk
Total Organic Carbon (mg/L)	No	n/a	n/a	Dixon`s	0.05	11	3.036	0.273	normal	ShapiroWilk
MW-7D										
Alkalinity, Total (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	97.8	2.394	unknown	ShapiroWilk
Calcium, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	14.1	0.8756	unknown	ShapiroWilk
Chloride (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	2.72	0.4517	normal	ShapiroWilk
Iron, Dissolved (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	0.1191	0.07009	ln(x)	ShapiroWilk
Magnesium, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	10.54	0.6022	unknown	ShapiroWilk
Nitrate (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	0.1262	0.07846	unknown	ShapiroWilk
Potassium, Dissolved (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	2.64	0.2366	normal	ShapiroWilk
Sulfate (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	5	0	unknown	ShapiroWilk
TDS (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	134	19.55	normal	ShapiroWilk
Total Organic Carbon (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	1	0	unknown	ShapiroWilk

Table 3. Summary of Statistical Outlier Analysis, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Outlier Found?	Outlier Value(s)	Date(s)	Method	Alpha	N	Mean	Standard Deviation	Distribution	Normality Test
MW-8D										
Alkalinity, Total (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	93	1.054	unknown	ShapiroWilk
Calcium, Dissolved (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	26.1	1.792	normal	ShapiroWilk
Chloride (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	15.6	2.914	normal	ShapiroWilk
Iron, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	0.056	0	unknown	ShapiroWilk
Magnesium, Dissolved (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	18.4	1.647	normal	ShapiroWilk
Nitrate (mg/L)	Yes	1	9/9/2024	Dixon`s	0.05	10	1.464	0.2565	normal	ShapiroWilk
Potassium, Dissolved (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	3	0.2582	normal	ShapiroWilk
Sulfate (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	57.7	10.03	normal	ShapiroWilk
TDS (mg/L)	Yes	300	12/3/2025	Dixon`s	0.05	10	245	23.69	normal	ShapiroWilk
Total Organic Carbon (mg/L)	n/a	n/a	n/a	NP (nrm)	NaN	10	1.03	0.09487	unknown	ShapiroWilk
MW-9D										
Alkalinity, Total (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	90.4	9.082	unknown	ShapiroWilk
Calcium, Dissolved (mg/L)	Yes	48	9/10/2024	NP (nrm)	NaN	10	32.9	5.425	unknown	ShapiroWilk
Chloride (mg/L)	Yes	74	9/10/2024	NP (nrm)	NaN	10	44.6	10.39	unknown	ShapiroWilk
Iron, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	0.2394	0.2374	unknown	ShapiroWilk
Magnesium, Dissolved (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	20.5	2.415	unknown	ShapiroWilk
Nitrate (mg/L)	No	n/a	n/a	NP (nrm)	NaN	10	0.4308	0.6296	unknown	ShapiroWilk
Potassium, Dissolved (mg/L)	Yes	1	9/10/2024	Dixon`s	0.05	10	2.135	0.6254	normal	ShapiroWilk
Sulfate (mg/L)	Yes	200	9/10/2024	Dixon`s	0.05	10	74.1	45.24	normal	ShapiroWilk
TDS (mg/L)	Yes	460, 150	9/10/2024, 8/5/2025	Dixon`s	0.05	10	295	76.34	normal	ShapiroWilk
Total Organic Carbon (mg/L)	No	n/a	n/a	EPA 1989	0.05	10	2.95	0.6346	normal	ShapiroWilk

Notes

Data screened with an IQR of 3.0 with the exception of nitrate at MW-2S which is screened with an IQR of 1.5

MW-5S, MW-6S, MW-7D, and MW-9D initial sample data removed as they were identified as outside the normal range.

¹ = Indicates parameters which contain a visually extreme outlier. If visual outliers were identified they were flagged in the database and listed in the table.

Table 4. Shallow Aquifer Upper Prediction Limits (UPL) and Maximum Contamination Level (MCL) Comparison Summary, 2025, Rocky Top Environmental Limited Purpose Landfill

Well	Parameter	1Q25 A	1Q25 B	2Q25 A	2Q25 B	3Q25 A	3Q25 B	4Q25 A	4Q25 B	Notes
MW-2S	Alkalinity, Total									
	Calcium, Dissolved									
	Chloride									
	Iron, Dissolved									
	Magnesium, Dissolved									
	Nitrate									
	Sulfate									
	TDS									
	TOC									
MW-3S	Alkalinity, Total									
	Calcium, Dissolved									
	Chloride									Move to trend test
	Iron, Dissolved									
	Magnesium, Dissolved									
	Nitrate	X		X		X		X		Move to trend test
	Sulfate									Move to trend test
	TDS									Move to trend test
	TOC									
MW-4S	Alkalinity, Total									
	Calcium, Dissolved									
	Chloride									
	Iron, Dissolved									
	Magnesium, Dissolved									
	Nitrate	X		X		X		X		2Q25 UPL exceedance disconfirmed; Move to trend test
	Sulfate									
	TDS	X		X		X		X		Move to trend test
	TOC									
MW-5S	Alkalinity, Total									
	Calcium, Dissolved									
	Chloride									
	Iron, Dissolved	X	X							1Q25 A event disconfirmed as an exceedance (outlier); run UPL and CC
	Magnesium, Dissolved									
	Nitrate									
	Sulfate									
	TDS									
	TOC									
MW-6S	Alkalinity, Total									
	Calcium, Dissolved									
	Chloride									
	Iron, Dissolved									
	Magnesium, Dissolved									
	Nitrate	X	X	X	X	X	X	X	X	Move to trend test
	Sulfate									
	TDS									
	TOC									

Notes:

- = Did not exceed 2025 UPL
- = Exceeded 2025 UPL
- X = Exceeds MCL
- = No UPL established in 2025

TOC = Total organic carbon

TDS = Total dissolved solids

MW-2S, MW-3S, and MW-4S only sampled during the B event

MCL not established for total alkalinity, dissolved magnesium, and TOC

Table 5. Sen's Slope/Mann-Kendall Trend Tests, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Well	Slope	Calculated Statistic	Critical Value	Trend	N	% Non-detects	Normality	Transformation	Alpha	Method
Alkalinity, Total (mg/L)	MW-2S	0	15	39	No	13	0	n/a	n/a	0.02	NP
Alkalinity, Total (mg/L)	MW-3S	12.06	54	39	Yes	13	0	n/a	n/a	0.02	NP
Alkalinity, Total (mg/L)	MW-4S	5.395	9	39	No	13	0	n/a	n/a	0.02	NP
Alkalinity, Total (mg/L)	MW-5S	13.81	20	23	No	9	0	n/a	n/a	0.02	NP
Alkalinity, Total (mg/L)	MW-6S	10.43	31	27	Yes	10	0	n/a	n/a	0.02	NP
Alkalinity, Total (mg/L)	MW-7D	0	3	23	No	9	0	n/a	n/a	0.02	NP
Alkalinity, Total (mg/L)	MW-8D	0	-2	-23	No	9	0	n/a	n/a	0.02	NP
Alkalinity, Total (mg/L)	MW-9D	-8.188	-11	-23	No	9	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-2S	0	6	39	No	13	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-3S	7.462	40	39	Yes	13	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-4S	13.16	40	39	Yes	13	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-5S	-5.962	-15	-20	No	8	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-6S	4.345	22	27	No	10	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-7D	-1.288	-11	-23	No	9	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-8D	2.758	12	23	No	9	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-9D	0	3	23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-2S	-0.0924	-11	-39	No	13	23.08	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-4S	-1.381	-14	-39	No	13	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-5S	-2.986	-12	-23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-6S	1.798	9	27	No	10	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-7D	-0.9014	-14	-23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-8D	2.858	11	23	No	9	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-9D	2.142	18	23	No	9	0	n/a	n/a	0.02	NP
Iron, Dissolved (mg/L)	MW-2S	0	0	39	No	13	100	n/a	n/a	0.02	NP
Iron, Dissolved (mg/L)	MW-3S	0	8	39	No	13	92.31	n/a	n/a	0.02	NP
Iron, Dissolved (mg/L)	MW-4S	0	0	39	No	13	100	n/a	n/a	0.02	NP
Iron, Dissolved (mg/L)	MW-5S	-0.2774	-15	-20	No	8	0	n/a	n/a	0.02	NP
Iron, Dissolved (mg/L)	MW-6S	0	0	27	No	10	100	n/a	n/a	0.02	NP
Iron, Dissolved (mg/L)	MW-7D	-0.2057	-23	-23	No	9	22.22	n/a	n/a	0.02	NP
Iron, Dissolved (mg/L)	MW-8D	0	0	23	No	9	100	n/a	n/a	0.02	NP
Iron, Dissolved (mg/L)	MW-9D	-0.4652	-18	-23	No	9	55.56	n/a	n/a	0.02	NP
Magnesium, Dissolved (mg/L)	MW-2S	0.1421	24	39	No	13	0	n/a	n/a	0.02	NP
Magnesium, Dissolved (mg/L)	MW-3S	4.716	44	39	Yes	13	0	n/a	n/a	0.02	NP
Magnesium, Dissolved (mg/L)	MW-4S	8.597	39	39	No	13	0	n/a	n/a	0.02	NP
Magnesium, Dissolved (mg/L)	MW-5S	-3.088	-11	-20	No	8	0	n/a	n/a	0.02	NP
Magnesium, Dissolved (mg/L)	MW-6S	3.51	19	27	No	10	0	n/a	n/a	0.02	NP
Magnesium, Dissolved (mg/L)	MW-7D	0	-4	-23	No	9	0	n/a	n/a	0.02	NP
Magnesium, Dissolved (mg/L)	MW-8D	3.341	14	23	No	9	0	n/a	n/a	0.02	NP
Magnesium, Dissolved (mg/L)	MW-9D	1.524	12	23	No	9	0	n/a	n/a	0.02	NP

Table 5. Sen's Slope/Mann-Kendall Trend Tests, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Well	Slope	Calculated Statistic	Critical Value	Trend	N	% Non-detects	Normality	Transformation	Alpha	Method
Nitrate (mg/L)	MW-2S	-0.0168	-1.844	-2.33	No	65	27.69	n/a	n/a	0.02	NP
Nitrate (mg/L)	MW-5S	0.1685	22	27	No	10	60	n/a	n/a	0.02	NP
Nitrate (mg/L)	MW-7D	0.1613	14	23	No	9	55.56	n/a	n/a	0.02	NP
Nitrate (mg/L)	MW-8D	-0.3814	-27	-23	Yes	9	0	n/a	n/a	0.02	NP
Nitrate (mg/L)	MW-9D	0.1983	15	23	No	9	44.44	n/a	n/a	0.02	NP
Potassium, Dissolved (mg/L)	MW-2S	-0.0858	-26	-39	No	13	0	n/a	n/a	0.02	NP
Potassium, Dissolved (mg/L)	MW-3S	0.2549	33	39	No	13	0	n/a	n/a	0.02	NP
Potassium, Dissolved (mg/L)	MW-4S	0.1789	28	39	No	13	0	n/a	n/a	0.02	NP
Potassium, Dissolved (mg/L)	MW-5S	0.146	4	20	No	8	0	n/a	n/a	0.02	NP
Potassium, Dissolved (mg/L)	MW-6S	0.4601	15	27	No	10	0	n/a	n/a	0.02	NP
Potassium, Dissolved (mg/L)	MW-7D	0.2908	11	23	No	9	0	n/a	n/a	0.02	NP
Potassium, Dissolved (mg/L)	MW-8D	0.4275	11	23	No	9	0	n/a	n/a	0.02	NP
Potassium, Dissolved (mg/L)	MW-9D	0.3494	10	23	No	9	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-2S	0.01851	5	39	No	13	7.692	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-4S	16.85	27	35	No	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-5S	-8.446	-8	-23	No	9	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-6S	13.11	26	27	No	10	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-7D	0	0	23	No	9	100	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-8D	20.24	33	23	Yes	9	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-9D	16.89	18	23	No	9	0	n/a	n/a	0.02	NP
TDS (mg/L)	MW-2S	0	1	39	No	13	0	n/a	n/a	0.02	NP
TDS (mg/L)	MW-5S	-70.81	-21	-23	No	9	0	n/a	n/a	0.02	NP
TDS (mg/L)	MW-6S	51.26	11	27	No	10	0	n/a	n/a	0.02	NP
TDS (mg/L)	MW-7D	0	0	23	No	9	0	n/a	n/a	0.02	NP
TDS (mg/L)	MW-8D	23.66	6	23	No	9	0	n/a	n/a	0.02	NP
TDS (mg/L)	MW-9D	0	-1	-23	No	9	0	n/a	n/a	0.02	NP
Total Organic Carbon (mg/L)	MW-2S	0	0	39	No	13	100	n/a	n/a	0.02	NP
Total Organic Carbon (mg/L)	MW-3S	0.2134	31	39	No	13	0	n/a	n/a	0.02	NP
Total Organic Carbon (mg/L)	MW-4S	-0.6875	-19	-39	No	13	0	n/a	n/a	0.02	NP
Total Organic Carbon (mg/L)	MW-5S	0	-3	-20	No	8	87.5	n/a	n/a	0.02	NP
Total Organic Carbon (mg/L)	MW-6S	0.3605	24	27	No	10	0	n/a	n/a	0.02	NP
Total Organic Carbon (mg/L)	MW-7D	0	0	23	No	9	100	n/a	n/a	0.02	NP
Total Organic Carbon (mg/L)	MW-8D	0	0	23	No	9	100	n/a	n/a	0.02	NP
Total Organic Carbon (mg/L)	MW-9D	0.4358	7	23	No	9	0	n/a	n/a	0.02	NP

Notes:

BOLD = Significant increasing trend

Table 6. Upper Prediction Limits for 2026-2027, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Well	Background Data Used	Upper Prediction Limit	Observation	Background N	Background Mean	Standard Deviation	% Non-detects	Non-detect Adjustment	Transformation	Alpha	Method
Alkalinity, Total (mg/L)	MW-2S	4Q22-4Q25	88	1 future	13	n/a	n/a	0	n/a	n/a	0.01871	NP Intra (normality) 1 of 2
Alkalinity, Total (mg/L)	MW-4S	4Q22-4Q25	187.6	1 future	13	156.9	10.57	0	None	No	0.000165	Param Intra 1 of 2 Deseas
Alkalinity, Total (mg/L)	MW-5S	All data	110	1 future	9	n/a	n/a	0	n/a	n/a	0.03414	NP Intra (normality) 1 of 2
Alkalinity, Total (mg/L)	MW-7D	All data	105.9	1 future	9	97.56	2.404	0	None	No	0.000165	Param Intra 1 of 2
Alkalinity, Total (mg/L)	MW-8D	All data	94	1 future	9	n/a	n/a	0	n/a	n/a	0.03414	NP Intra (normality) 1 of 2
Alkalinity, Total (mg/L)	MW-9D	All data	109.5	1 future	9	92.89	4.807	0	None	No	0.000165	Param Intra 1 of 2
Calcium, Dissolved (mg/L)	MW-2S	4Q22-4Q25	14	1 future	13	n/a	n/a	0	n/a	n/a	0.009354	NP Intra (normality) 1 of 2
Calcium, Dissolved (mg/L)	MW-5S	All data	39	1 future	8	29.38	2.615	0	None	No	0.000329	Param Intra 1 of 2
Calcium, Dissolved (mg/L)	MW-6S	All data	54.04	1 future	10	44.8	2.86	0	None	No	0.000329	Param Intra 1 of 2
Calcium, Dissolved (mg/L)	MW-7D	All data	16.99	1 future	9	14	0.866	0	None	No	0.000329	Param Intra 1 of 2
Calcium, Dissolved (mg/L)	MW-8D	All data	32.32	1 future	9	26.33	1.732	0	None	No	0.000329	Param Intra 1 of 2
Calcium, Dissolved (mg/L)	MW-9D	All data	35.37	1 future	9	31.22	1.202	0	None	No	0.000329	Param Intra 1 of 2
Chloride (mg/L)	MW-2S	4Q22-4Q25	5.674	1 future	13	2.062	1.245	23.08	Aitchison`s	No	0.000329	Param Intra 1 of 2
Chloride (mg/L)	MW-4S	4Q22-4Q25	52.29	1 future	13	44.92	2.539	0	None	No	0.000329	Param Intra 1 of 2 Deseas
Chloride (mg/L)	MW-5S	All data	35	1 future	9	20.78	4.116	0	None	No	0.000329	Param Intra 1 of 2
Chloride (mg/L)	MW-6S	70.43	n/a	n/a	n/a	62.9	2.331	0	None	No	0.000329	Param Intra 1 of 2
Chloride (mg/L)	MW-7D	All data	4.304	1 future	9	2.689	0.4676	0	None	No	0.000329	Param Intra 1 of 2
Chloride (mg/L)	MW-8D	All data	25.62	1 future	9	16	2.784	0	None	No	0.000329	Param Intra 1 of 2
Chloride (mg/L)	MW-9D	All data	45.56	1 future	9	41.33	1.225	0	None	No	0.000329	Param Intra 1 of 2
Iron, Dissolved (mg/L)	MW-3S	4Q22-4Q25	0.088	1 future	13	n/a	n/a	92.31	n/a	n/a	0.009354	NP Intra (NDs) 1 of 2
Iron, Dissolved (mg/L)	MW-5S	All data	0.6258	1 future	8	0.1769	0.122	0	None	No	0.000329	Param Intra 1 of 2
Iron, Dissolved (mg/L)	MW-7D	All data	0.4158	1 future	9	0.112	0.08793	22.22	Aitchison`s	No	0.000329	Param Intra 1 of 2
Iron, Dissolved (mg/L)	MW-9D	All data	0.69	1 future	9	n/a	n/a	55.56	n/a	n/a	0.01707	NP Intra (NDs) 1 of 2
Magnesium, Dissolved (mg/L)	MW-2S	4Q22-4Q25	9.881	1 future	13	8.908	0.3353	0	None	No	0.000329	Param Intra 1 of 2
Magnesium, Dissolved (mg/L)	MW-4S	4Q22-4Q25	93.59	1 future	13	n/a	59.54	11.73	None	No	0.000329	Param Intra 1 of 2
Magnesium, Dissolved (mg/L)	MW-5S	All data	26.31	1 future	8	19.5	1.852	0	None	No	0.000329	Param Intra 1 of 2
Magnesium, Dissolved (mg/L)	MW-6S	All data	38.83	1 future	10	30.8	2.486	0	None	No	0.000329	Param Intra 1 of 2
Magnesium, Dissolved (mg/L)	MW-7D	All data	11	1 future	9	n/a	n/a	0	n/a	n/a	0.01707	NP Intra (normality) 1 of 2
Magnesium, Dissolved (mg/L)	MW-8D	All data	23.85	1 future	9	18.67	1.5	0	None	No	0.000329	Param Intra 1 of 2
Magnesium, Dissolved (mg/L)	MW-9D	All data	22.66	1 future	9	19.78	0.8333	0	None	No	0.000329	Param Intra 1 of 2
Nitrate (mg/L)	MW-2S	All data	2.368	1 future	65	0.5947	0.4253	27.69	Aitchison`s	sqrt(x)	0.000329	Param Intra 1 of 2
Nitrate (mg/L)	MW-5S	All data	0.239	1 future	10	n/a	n/a	60	n/a	n/a	0.01407	NP Intra (NDs) 1 of 2
Nitrate (mg/L)	MW-7D	All data	0.2	1 future	9	n/a	n/a	55.56	n/a	n/a	0.01707	NP Intra (NDs) 1 of 2
Nitrate (mg/L)	MW-8D	All data	2.041	1 future	9	1.532	0.1471	0	None	No	0.000329	Param Intra 1 of 2
Nitrate (mg/L)	MW-9D	All data	1.64	1 future	9	n/a	n/a	44.44	n/a	n/a	0.01707	NP Intra (xform) 1 of 2

Table 6. Upper Prediction Limits for 2026-2027, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Well	Background Data Used	Upper	Observation	Background	Background	Standard	% Non-	Non-detect	Transformation	Alpha	Method
			Prediction Limit		N	Mean	Deviation	detects	Adjustment			
Potassium, Dissolved (mg/L)	MW-2S	4Q22-4Q25	3.813	1 future	13	3.069	0.2562	0	None	No	0.000329	Param Intra 1 of 2
Potassium, Dissolved (mg/L)	MW-3S	4Q22-4Q25	5.765	1 future	13	4.323	0.4969	0	None	No	0.000329	Param Intra 1 of 2
Potassium, Dissolved (mg/L)	MW-4S	4Q22-4Q25	7.956	1 future	13	6.385	0.5414	0	None	No	0.000329	Param Intra 1 of 2
Potassium, Dissolved (mg/L)	MW-5S	All data	4.332	1 future	8	3.488	0.2295	0	None	No	0.000329	Param Intra 1 of 2
Potassium, Dissolved (mg/L)	MW-6S	All data	5.704	1 future	10	4.43	0.3945	0	None	No	0.000329	Param Intra 1 of 2
Potassium, Dissolved (mg/L)	MW-7D	All data	3.465	1 future	9	2.622	0.2438	0	None	No	0.000329	Param Intra 1 of 2
Potassium, Dissolved (mg/L)	MW-8D	All data	3.946	1 future	9	3	0.2739	0	None	No	0.000329	Param Intra 1 of 2
Potassium, Dissolved (mg/L)	MW-9D	All data	3.354	1 future	9	2.311	0.3018	0	None	No	0.000329	Param Intra 1 of 2
Sulfate (mg/L)	MW-2S	4Q22-4Q25	7.908	1 future	13	32.12	10.48	7.692	None	x^2	0.000329	Param Intra 1 of 2
Sulfate (mg/L)	MW-4S	4Q22-4Q25	186.4	1 future	12	88.75	32.87	0	None	No	0.000329	Param Intra 1 of 2
Sulfate (mg/L)	MW-5S	All data	108.1	1 future	9	61.67	13.45	0	None	No	0.000329	Param Intra 1 of 2
Sulfate (mg/L)	MW-6S	All data	77.08	1 future	10	58.1	5.877	0	None	No	0.000329	Param Intra 1 of 2
Sulfate (mg/L)	MW-8D	All data	92.54	1 future	9	59	9.708	0	None	No	0.000329	Param Intra 1 of 2
Sulfate (mg/L)	MW-9D	All data	94.81	1 future	9	60.11	10.04	0	None	No	0.000329	Param Intra 1 of 2
TDS (mg/L)	MW-2S	4Q22-4Q25	195.5	1 future	13	133	21.53	0	None	No	0.000329	Param Intra 1 of 2
TDS (mg/L)	MW-5S	All data	401.9	1 future	9	15.55	1.301	0	None	sqrt(x)	0.000329	Param Intra 1 of 2
TDS (mg/L)	MW-6S	All data	579	1 future	10	328	77.72	0	None	No	0.000329	Param Intra 1 of 2
TDS (mg/L)	MW-7D	All data	194.5	1 future	9	137.8	16.41	0	None	No	0.000329	Param Intra 1 of 2
TDS (mg/L)	MW-8D	All data	331.3	1 future	9	246.7	24.49	0	None	No	0.000329	Param Intra 1 of 2
TDS (mg/L)	MW-9D	All data	458.7	1 future	9	276.7	52.68	0	None	No	0.000329	Param Intra 1 of 2
Total Organic Carbon (mg/L)	MW-3S	4Q22-4Q25	3.665	1 future	13	2.777	0.3059	0	None	No	0.000329	Param Intra 1 of 2
Total Organic Carbon (mg/L)	MW-4S	4Q22-4Q25	6.407	1 future	13	4.746	0.5721	0	None	No	0.000329	Param Intra 1 of 2 Deseas
Total Organic Carbon (mg/L)	MW-5S	All data	1.7	1 future	8	n/a	n/a	87.5	n/a	n/a	0.0201	NP Intra (NDs) 1 of 2
Total Organic Carbon (mg/L)	MW-6S	All data	3.69	1 future	10	3.1	0.1826	0	None	No	0.000329	Param Intra 1 of 2
Total Organic Carbon (mg/L)	MW-9D	All data	4.726	1 future	9	2.833	0.5477	0	None	No	0.000329	Param Intra 1 of 2

Table 7. Control Charts for 2026-2027, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Well	Background Data Used	Significant	Upper Prediction		h	SCL	Background N	Background Mean	Standard Deviation	% Non-detects	Adjustment for NDs	Deseasonalized	Transformation	Method
				Limit											
Alkalinity, Total (mg/L)	MW-2S	4Q22-4Q25	No	88	n/a	n/a	13	n/a	n/a	0	None	No	No	NP Intra PL (normality)	
Alkalinity, Total (mg/L)	MW-4S	4Q22-4Q25	No	n/a	209.8	209.8	13	156.9	10.57	0	None	Yes	No	Param Intra	
Alkalinity, Total (mg/L)	MW-5S	All data	No	110	n/a	n/a	9	n/a	n/a	0	None	No	No	NP Intra PL (normality)	
Alkalinity, Total (mg/L)	MW-7D	All data	No	n/a	109.6	109.6	9	97.56	2.404	0	None	No	No	Param Intra	
Alkalinity, Total (mg/L)	MW-8D	All data	No	94	n/a	n/a	9	n/a	n/a	0	None	No	No	NP Intra PL (normality)	
Alkalinity, Total (mg/L)	MW-9D	All data	No	n/a	116.9	116.9	9	92.89	4.807	0	None	No	No	Param Intra	
Calcium, Dissolved (mg/L)	MW-2S	4Q22-4Q25	No	14	n/a	n/a	13	n/a	n/a	0	None	No	No	NP Intra PL (normality)	
Calcium, Dissolved (mg/L)	MW-5S	All data	No	n/a	42.45	42.45	8	29.38	2.615	0	None	No	No	Param Intra	
Calcium, Dissolved (mg/L)	MW-6S	All data	No	n/a	59.1	59.1	10	44.8	2.86	0	None	No	No	Param Intra	
Calcium, Dissolved (mg/L)	MW-7D	All data	No	15	n/a	n/a	9	n/a	n/a	0	None	No	No	NP Intra PL (normality)	
Calcium, Dissolved (mg/L)	MW-8D	All data	No	n/a	34.99	34.99	9	26.33	1.732	0	None	No	No	Param Intra	
Calcium, Dissolved (mg/L)	MW-9D	All data	No	n/a	37.23	37.23	9	31.22	1.202	0	None	No	No	Param Intra	
Chloride (mg/L)	MW-2S	4Q22-4Q25	No	n/a	5.555	5.555	13	2.438	0.6235	23.08	Cohen's	No	No	Param Intra	
Chloride (mg/L)	MW-4S	4Q22-4Q25	No	n/a	57.62	57.62	13	44.92	2.539	0	None	Yes	No	Param Intra	
Chloride (mg/L)	MW-5S	All data	No	n/a	51.07	51.07	9	3.018	0.183	0	None	No	In(x)	Param Intra	
Chloride (mg/L)	MW-6S	All data	No	n/a	74.55	74.55	10	62.9	2.331	0	None	No	No	Param Intra	
Chloride (mg/L)	MW-7D	All data	No	n/a	5.027	5.027	9	2.689	0.4676	0	None	No	No	Param Intra	
Chloride (mg/L)	MW-8D	All data	No	n/a	29.92	29.92	9	16	2.784	0	None	No	No	Param Intra	
Chloride (mg/L)	MW-9D	All data	No	n/a	47.46	47.46	9	41.33	1.225	0	None	No	No	Param Intra	
Iron, Dissolved (mg/L)	MW-3S	4Q22-4Q25	No	0.088	n/a	n/a	13	n/a	n/a	92.31	None	No	No	NP Intra PL (NDs)	
Iron, Dissolved (mg/L)	MW-5S	All data	No	n/a	1.193	1.193	8	0.4001	0.1384	0	None	No	sqrt(x)	Param Intra	
Iron, Dissolved (mg/L)	MW-7D	All data	No	n/a	0.5512	0.5512	9	0.1126	0.08772	22.22	Cohen's	No	No	Param Intra	
Iron, Dissolved (mg/L)	MW-9D	All data	No	0.69	n/a	n/a	9	n/a	n/a	55.56	None	No	No	NP Intra PL (NDs)	
Magnesium, Dissolved (mg/L)	MW-2S	4Q22-4Q25	No	n/a	10.58	10.58	13	8.908	0.3353	0	None	No	No	Param Intra	
Magnesium, Dissolved (mg/L)	MW-4S	4Q22-4Q25	No	n/a	118.2	118.2	13	59.54	11.73	0	None	No	No	Param Intra	
Magnesium, Dissolved (mg/L)	MW-5S	All data	No	n/a	28.76	28.76	8	19.5	1.852	0	None	No	No	Param Intra	
Magnesium, Dissolved (mg/L)	MW-6S	All data	No	n/a	43.23	43.23	10	30.8	2.486	0	None	No	No	Param Intra	
Magnesium, Dissolved (mg/L)	MW-7D	All data	No	11	n/a	n/a	9	n/a	n/a	0	None	No	No	NP Intra PL (normality)	
Magnesium, Dissolved (mg/L)	MW-8D	All data	No	n/a	26.17	26.17	9	18.67	1.5	0	None	No	No	Param Intra	
Magnesium, Dissolved (mg/L)	MW-9D	All data	No	21	n/a	n/a	9	n/a	n/a	0	None	No	No	NP Intra PL (normality)	
Nitrate (mg/L)	MW-2S	All data	No	2.04	n/a	n/a	65	n/a	n/a	27.69	None	No	No	NP Intra PL (normality)	
Nitrate (mg/L)	MW-5S	All data	No	0.239	n/a	n/a	10	n/a	n/a	60	None	No	No	NP Intra PL (NDs)	
Nitrate (mg/L)	MW-7D	All data	No	0.2	n/a	n/a	9	n/a	n/a	55.56	None	No	No	NP Intra PL (NDs)	
Nitrate (mg/L)	MW-8D	All data	No	n/a	2.268	2.268	9	1.532	0.1471	0	None	No	No	Param Intra	
Nitrate (mg/L)	MW-9D	All data	No	1.64	n/a	n/a	9	n/a	n/a	44.44	None	No	No	NP Intra PL (xf/Cohens)	

Table 7. Control Charts for 2026-2027, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Well	Background Data Used	Significant	Upper	h	SCL	Background N	Background Mean	Standard Deviation	% Non-detects	Adjustment for NDs	Deseasonalized	Transformation	Method
				Prediction Limit										
Potassium, Dissolved (mg/L)	MW-2S	4Q22-4Q25	No	3.3	n/a	n/a	13	n/a	n/a	0	None	No	No	NP Intra PL (normality)
Potassium, Dissolved (mg/L)	MW-3S	4Q22-4Q25	No	n/a	6.808	6.808	13	4.323	0.4969	0	None	No	No	Param Intra
Potassium, Dissolved (mg/L)	MW-4S	4Q22-4Q25	No	n/a	9.091	9.091	13	6.385	0.5414	0	None	No	No	Param Intra
Potassium, Dissolved (mg/L)	MW-5S	All data	No	n/a	4.635	4.635	8	3.488	0.2295	0	None	No	No	Param Intra
Potassium, Dissolved (mg/L)	MW-6S	All data	No	n/a	6.403	6.403	10	4.43	0.3945	0	None	No	No	Param Intra
Potassium, Dissolved (mg/L)	MW-7D	All data	No	n/a	3.841	3.841	9	2.622	0.2438	0	None	No	No	Param Intra
Potassium, Dissolved (mg/L)	MW-8D	All data	No	n/a	4.369	4.369	9	3	0.2739	0	None	No	No	Param Intra
Potassium, Dissolved (mg/L)	MW-9D	All data	No	n/a	3.82	3.82	9	2.311	0.3018	0	None	No	No	Param Intra
Sulfate (mg/L)	MW-2S	4Q22-4Q25	No	n/a	9.194	9.194	13	32.12	10.48	7.692	None	No	x^2	Param Intra
Sulfate (mg/L)	MW-4S	4Q22-4Q25	No	n/a	253.1	253.1	12	88.75	32.87	0	None	No	No	Param Intra
Sulfate (mg/L)	MW-5S	All data	No	n/a	128.9	128.9	9	61.67	13.45	0	None	No	No	Param Intra
Sulfate (mg/L)	MW-6S	All data	No	n/a	87.49	87.49	10	58.1	5.877	0	None	No	No	Param Intra
Sulfate (mg/L)	MW-8D	All data	No	n/a	107.5	107.5	9	59	9.708	0	None	No	No	Param Intra
Sulfate (mg/L)	MW-9D	All data	No	n/a	110.3	110.3	9	60.11	10.04	0	None	No	No	Param Intra
TDS (mg/L)	MW-2S	4Q22-4Q25	No	n/a	240.7	240.7	13	133	21.53	0	None	No	No	Param Intra
TDS (mg/L)	MW-5S	All data	No	330	n/a	n/a	9	n/a	n/a	0	None	No	No	NP Intra PL (normality)
TDS (mg/L)	MW-6S	All data	No	n/a	580	580	10	113020	44674	0	None	No	x^2	Param Intra
TDS (mg/L)	MW-7D	All data	No	n/a	219.9	219.9	9	137.8	16.41	0	None	No	No	Param Intra
TDS (mg/L)	MW-8D	All data	No	n/a	369.1	369.1	9	246.7	24.49	0	None	No	No	Param Intra
TDS (mg/L)	MW-9D	All data	No	n/a	452.6	452.6	9	79011	25160	0	None	No	x^2	Param Intra
Total Organic Carbon (mg/L)	MW-3S	4Q22-4Q25	No	n/a	4.307	4.307	13	2.777	0.3059	0	None	No	No	Param Intra
Total Organic Carbon (mg/L)	MW-4S	4Q22-4Q25	No	n/a	7.607	7.607	13	4.746	0.5721	0	None	Yes	No	Param Intra
Total Organic Carbon (mg/L)	MW-5S	All data	No	1.7	n/a	n/a	8	n/a	n/a	87.5	None	No	No	NP Intra PL (NDs)
Total Organic Carbon (mg/L)	MW-6S	All data	No	n/a	4.013	4.013	10	3.1	0.1826	0	None	No	No	Param Intra
Total Organic Carbon (mg/L)	MW-9D	All data	No	n/a	5.572	5.572	9	2.833	0.5477	0	None	No	No	Param Intra

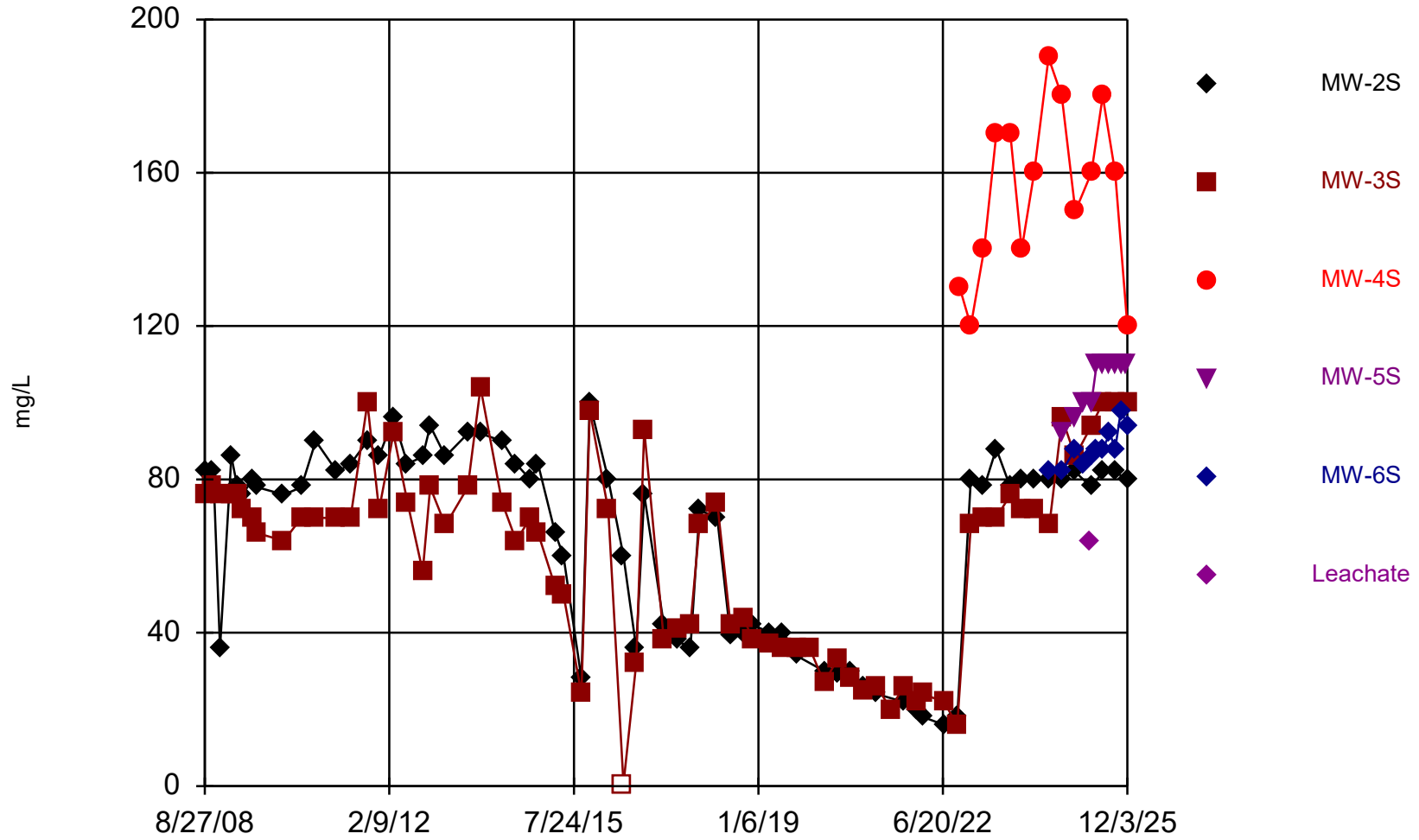
Table 8. Trend Tests for Assessment Monitoring, Rocky Top Environmental Limited Purpose Landfill

Constituent Name	Well	Slope	Calculated Statistic	Critical Value	Trend	N	% Non-detects	Normality	Transformation	Alpha	Method
Alkalinity, Total (mg/L)	MW-3S	12.06	54	39	Yes	13	0	n/a	n/a	0.02	NP
Alkalinity, Total (mg/L)	MW-6S	10.43	31	27	Yes	10	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-3S	7.462	40	39	Yes	13	0	n/a	n/a	0.02	NP
Calcium, Dissolved (mg/L)	MW-4S	13.16	40	39	Yes	13	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-3S	8.893	45	39	Yes	13	0	n/a	n/a	0.02	NP
Magnesium, Dissolved (mg/L)	MW-3S	4.716	44	39	Yes	13	0	n/a	n/a	0.02	NP
Nitrate (mg/L)	MW-3S	0.3972	6.768	2.33	Yes	70	1.429	n/a	n/a	0.02	NP
Nitrate (mg/L)	MW-4S	17.02	61	44	Yes	14	0	n/a	n/a	0.02	NP
Nitrate (mg/L)	MW-6S	5.051	36	27	Yes	10	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-3S	18.42	56	39	Yes	13	0	n/a	n/a	0.02	NP
TDS (mg/L)	MW-3S	57.39	43	39	Yes	13	0	n/a	n/a	0.02	NP
TDS (mg/L)	MW-4S	63.17	40	39	Yes	13	0	n/a	n/a	0.02	NP

Attachment A

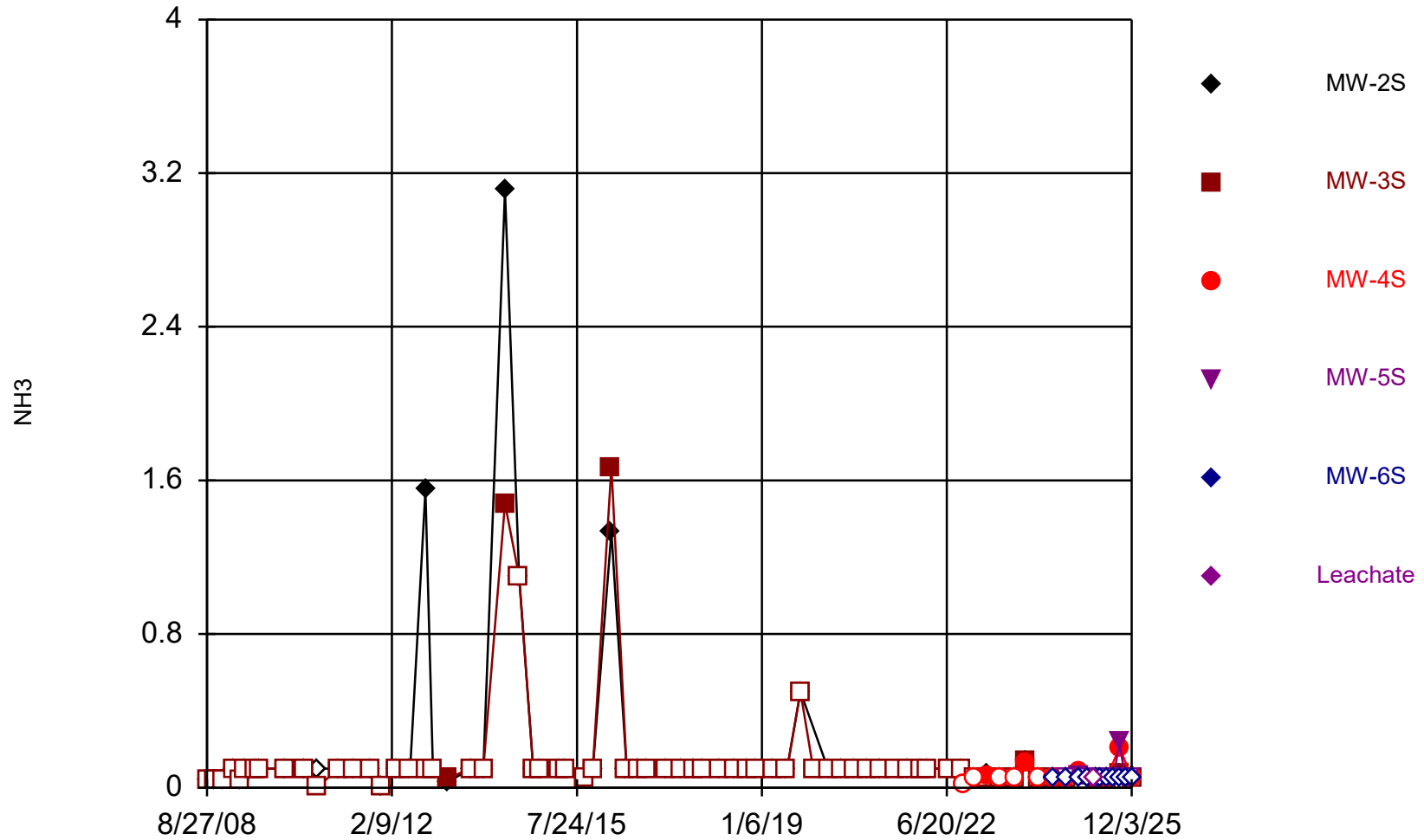
Time-Series Plots

Time Series



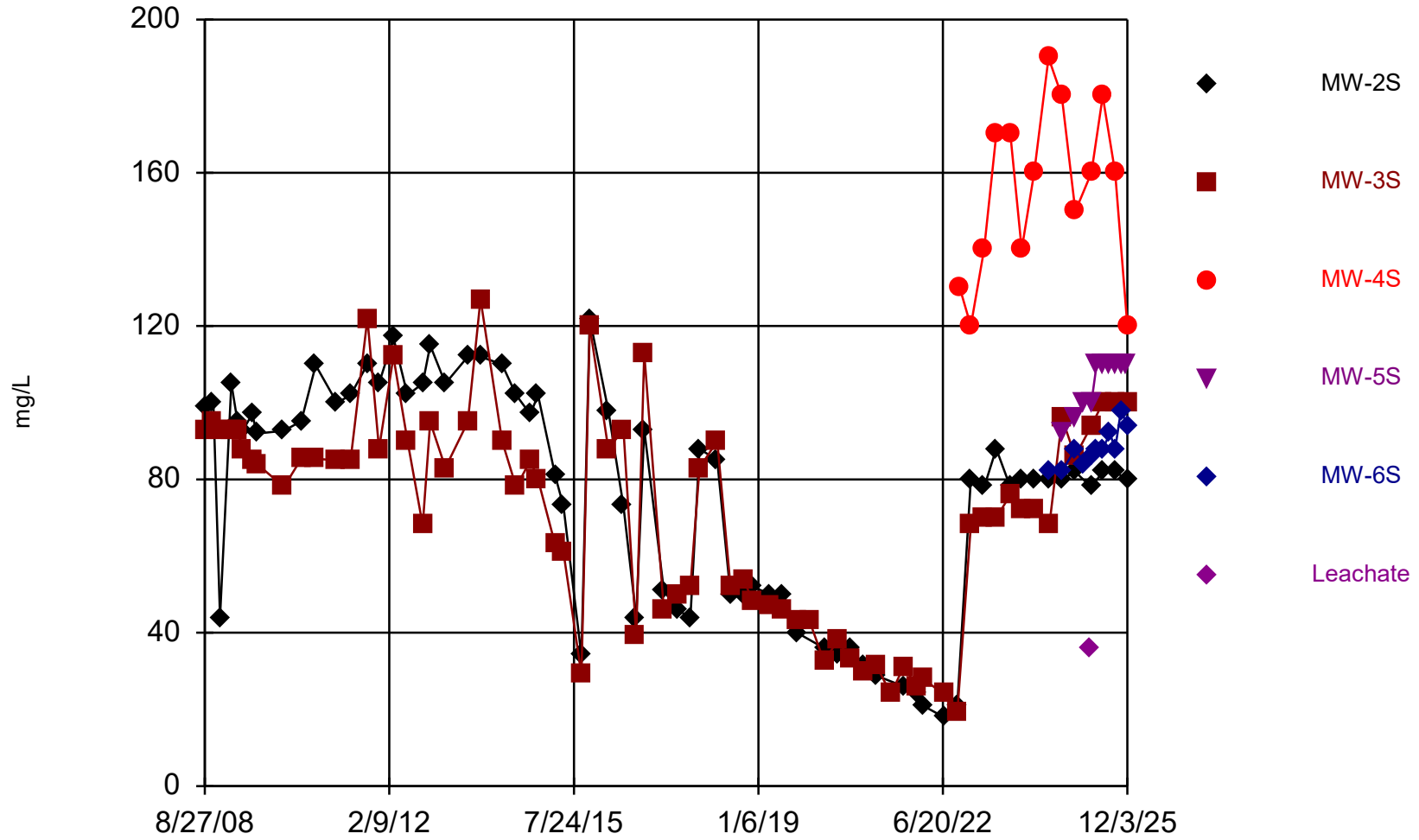
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Time Series

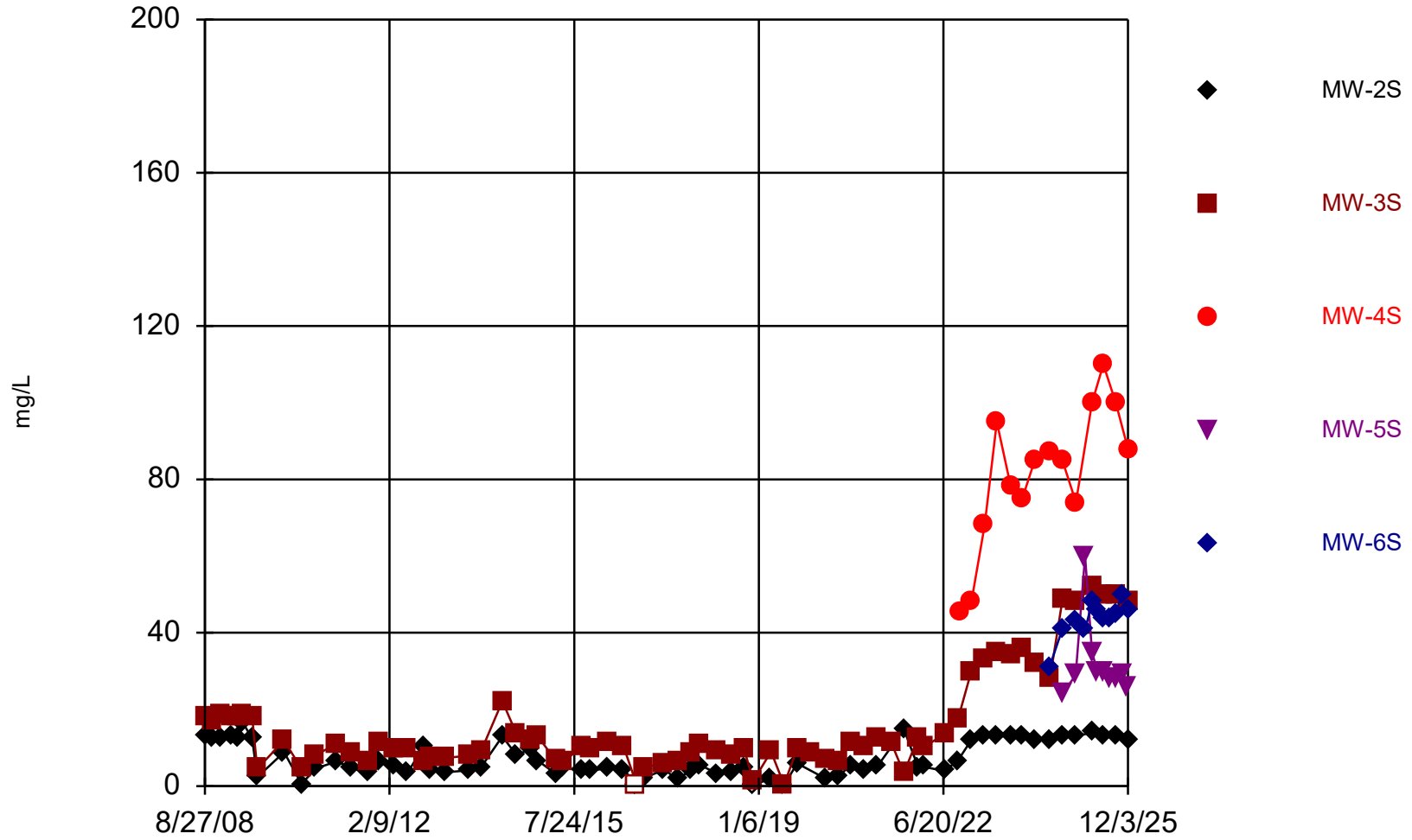


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Time Series

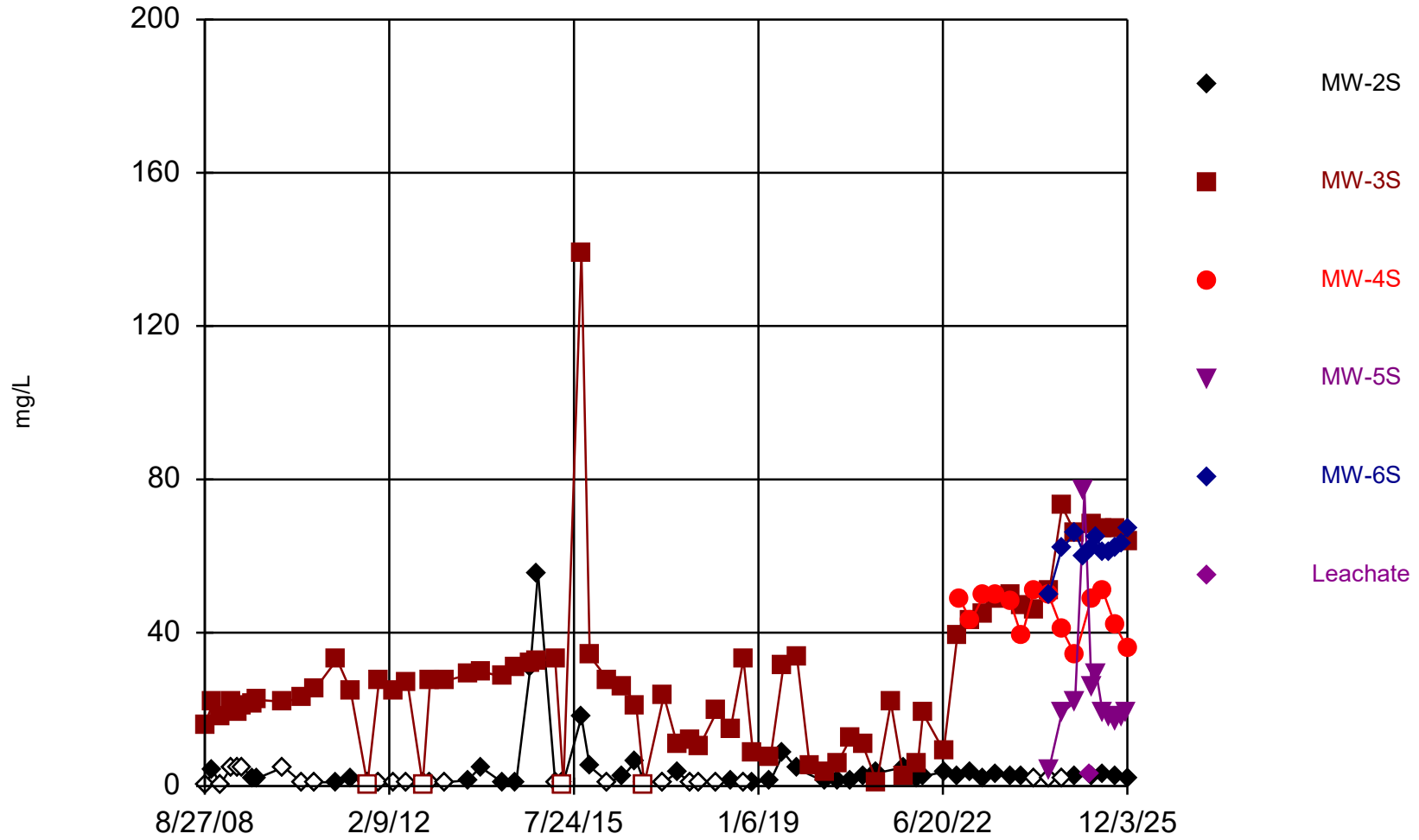


Time Series



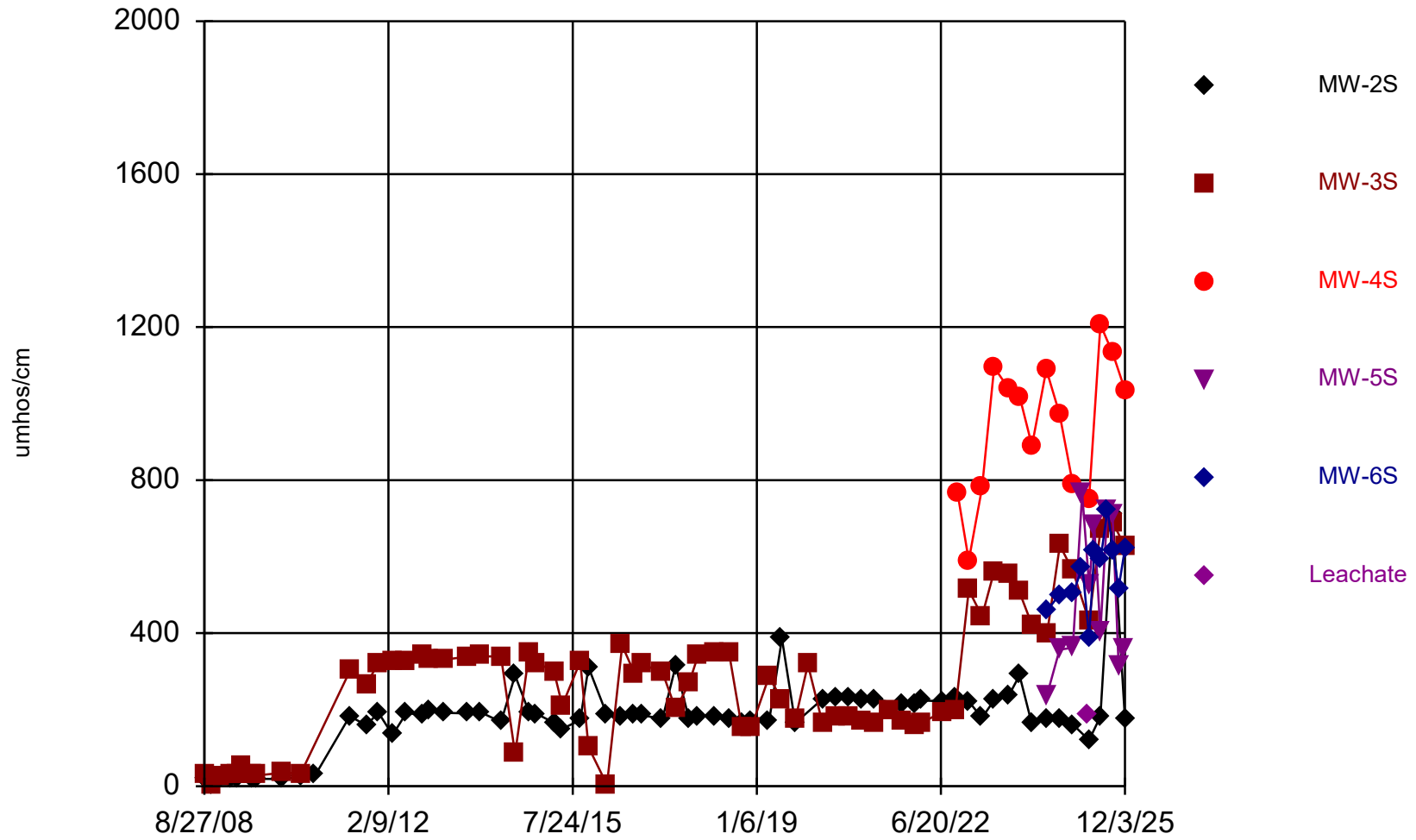
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Time Series



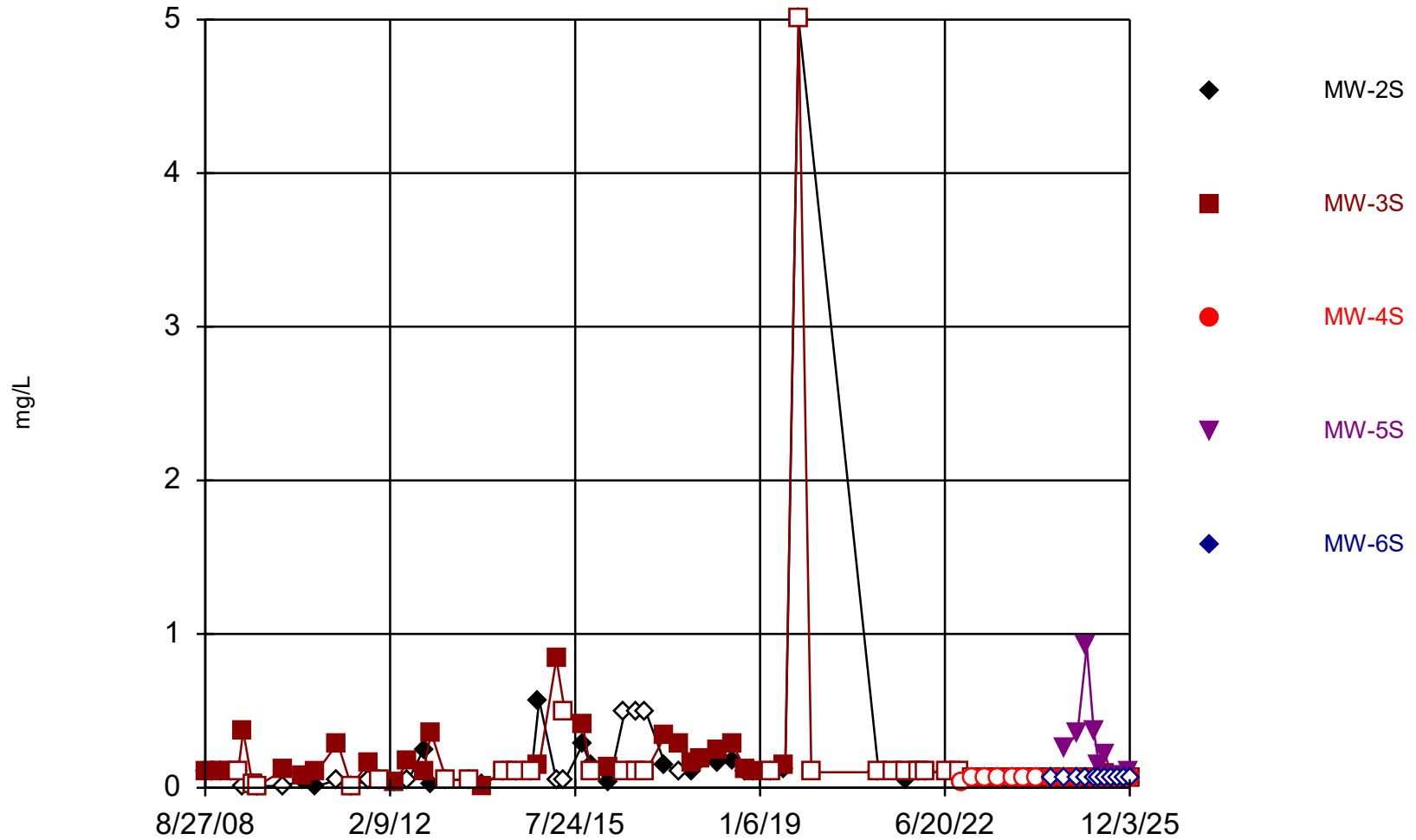
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Time Series



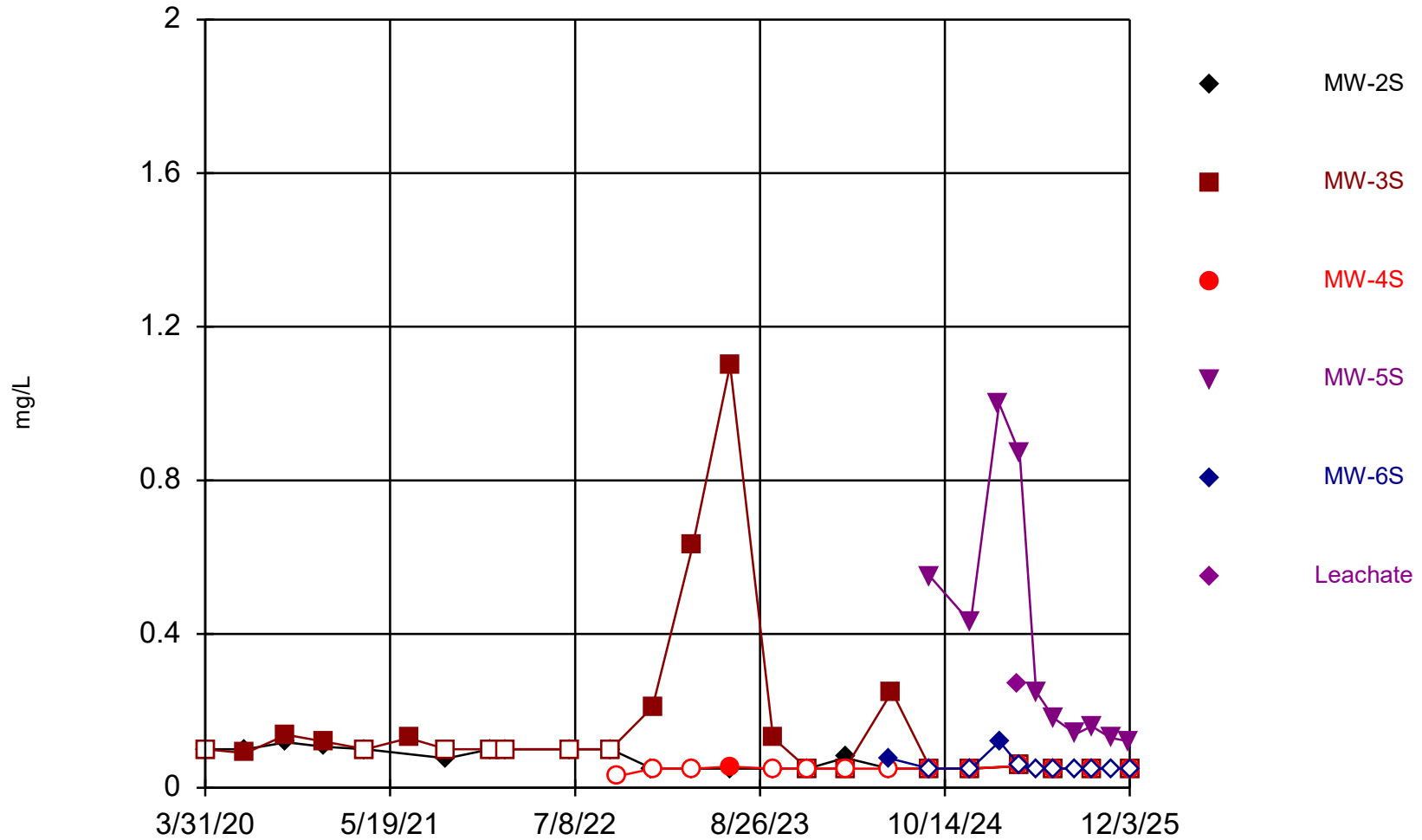
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Time Series



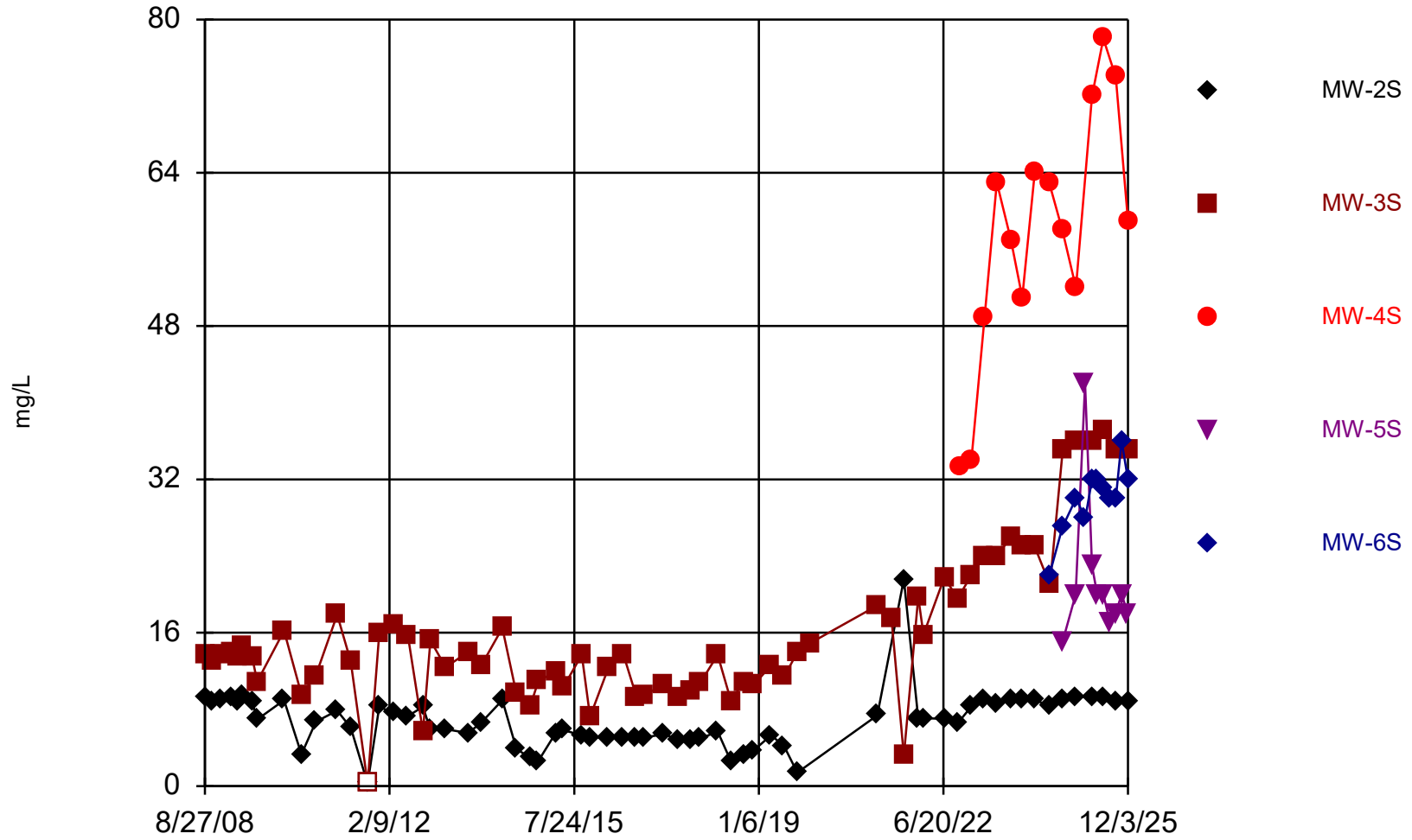
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Time Series



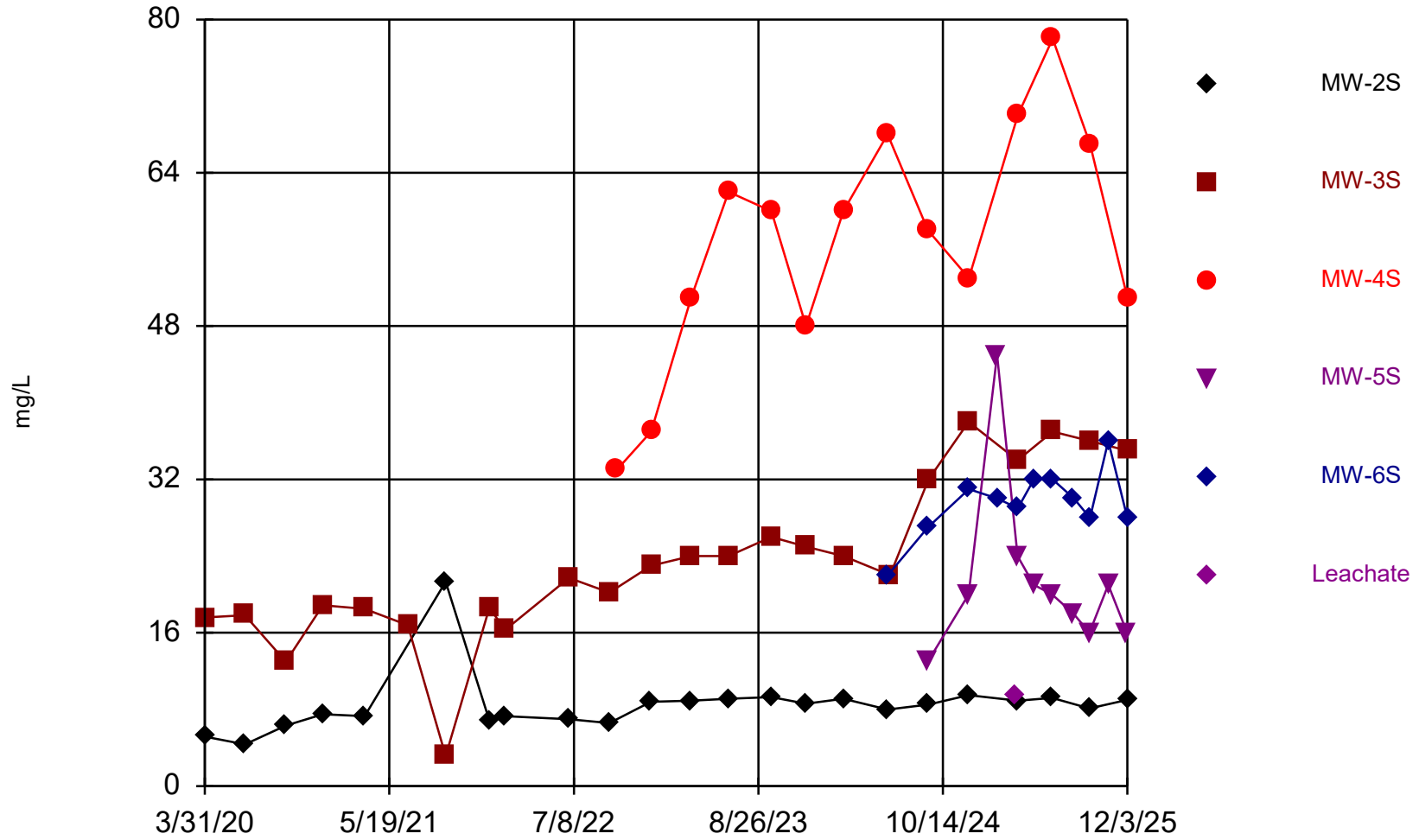
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Time Series



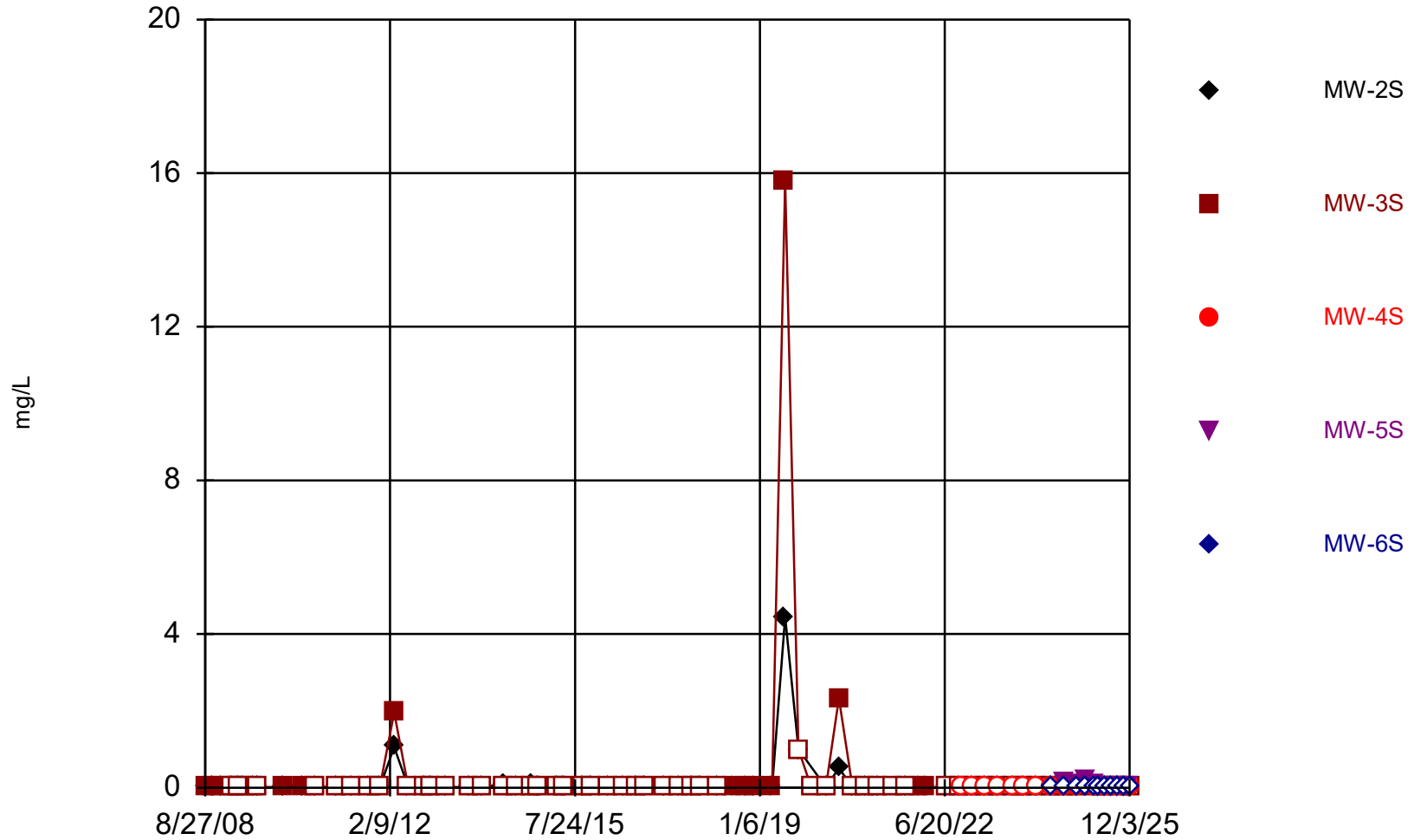
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Time Series



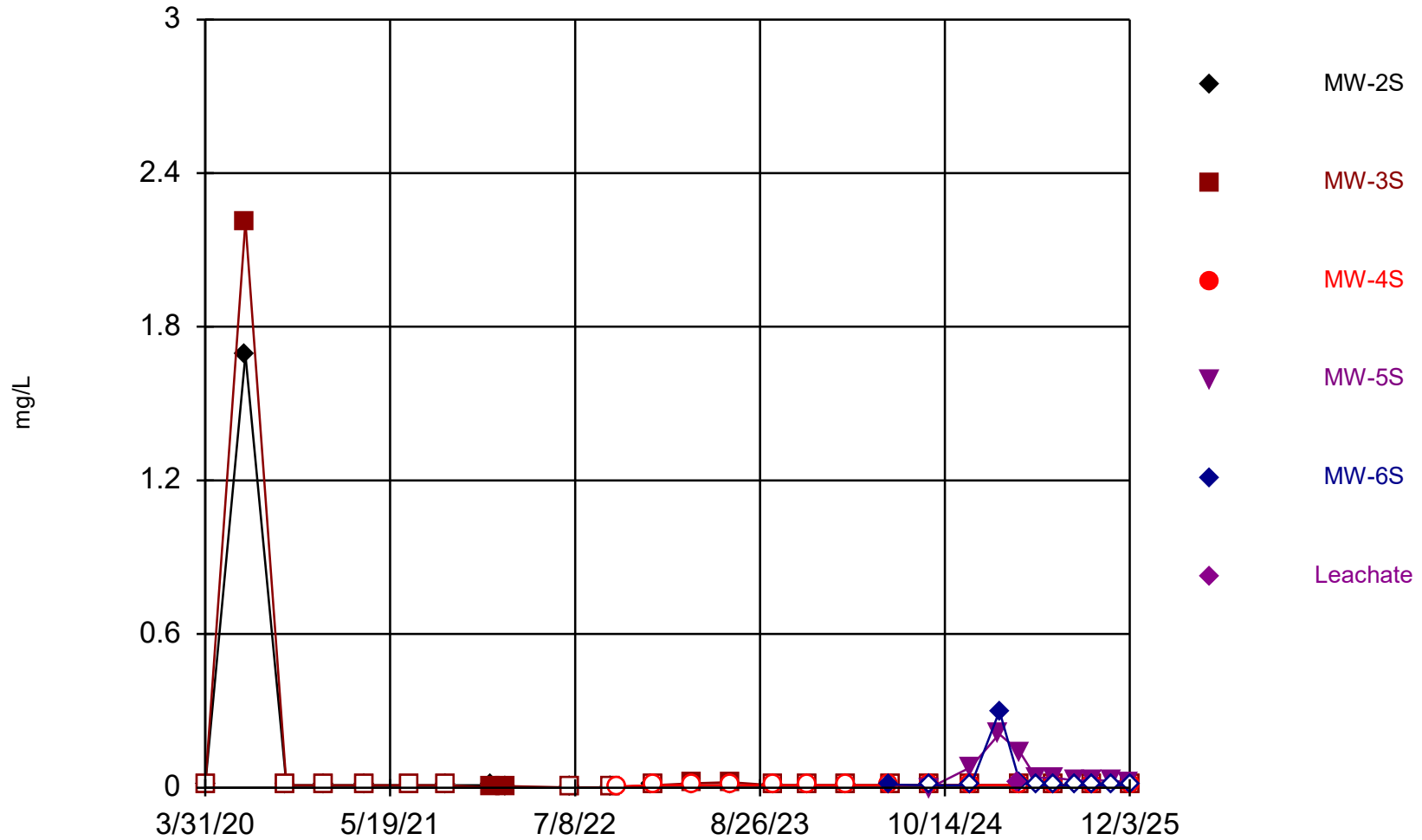
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Time Series



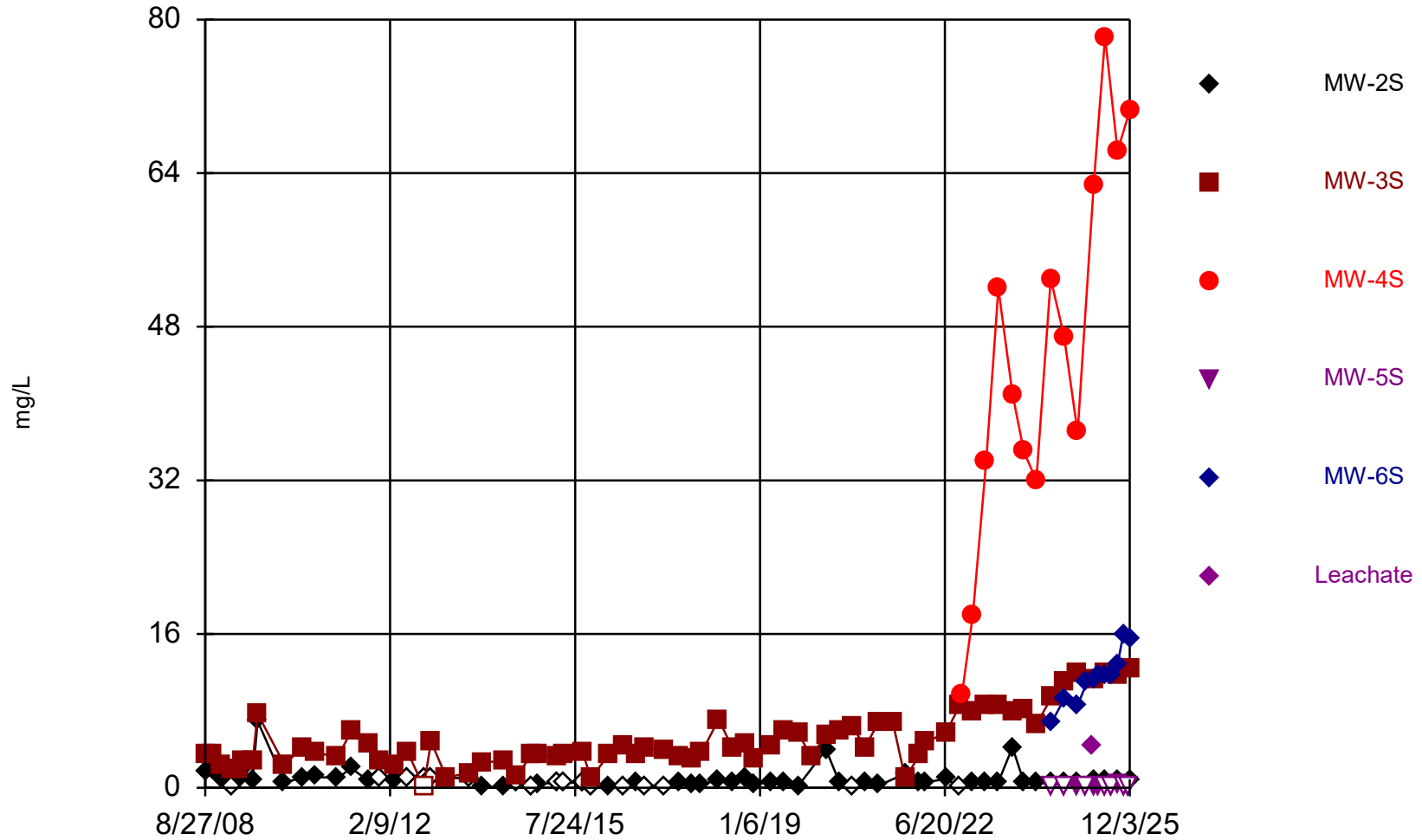
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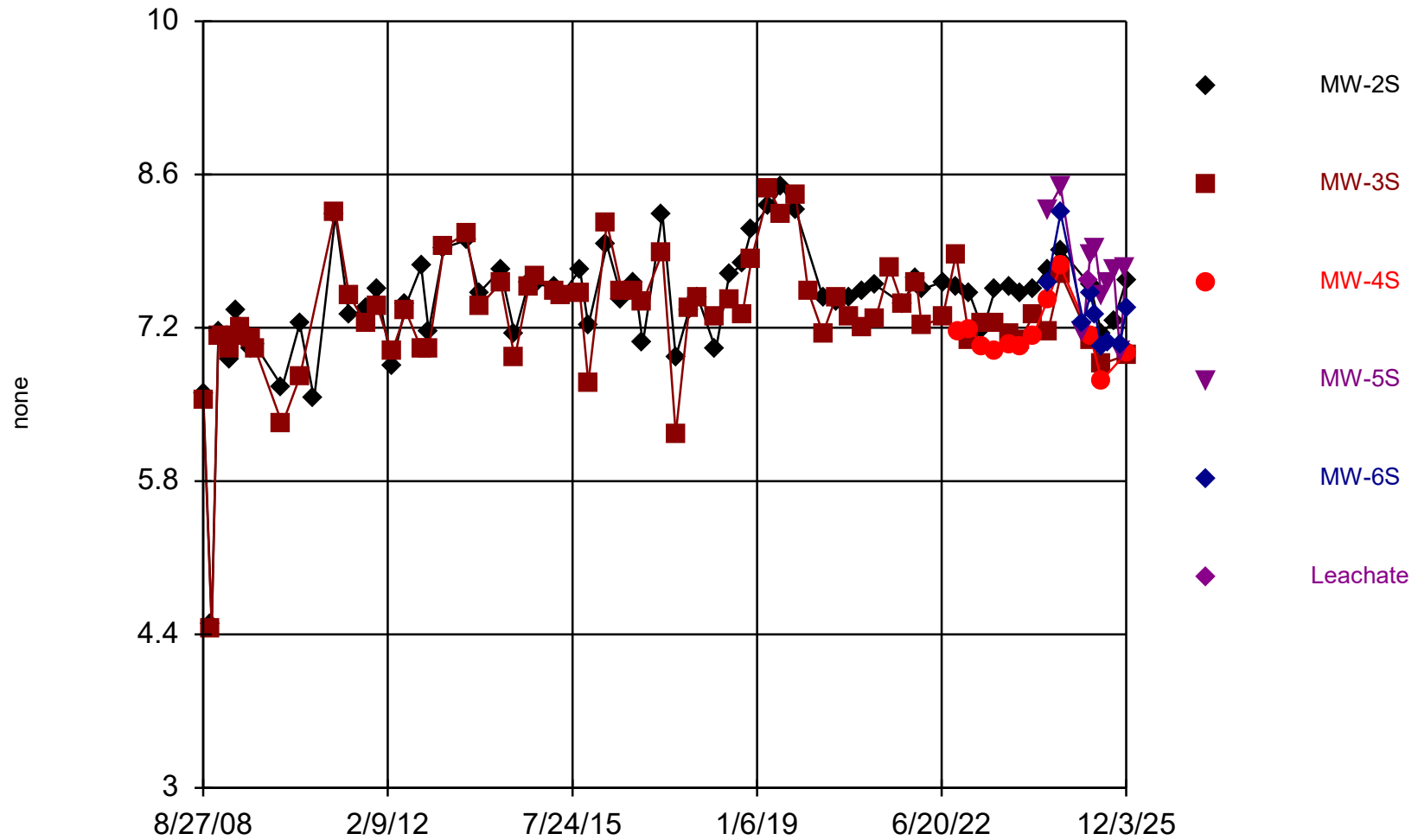
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Time Series



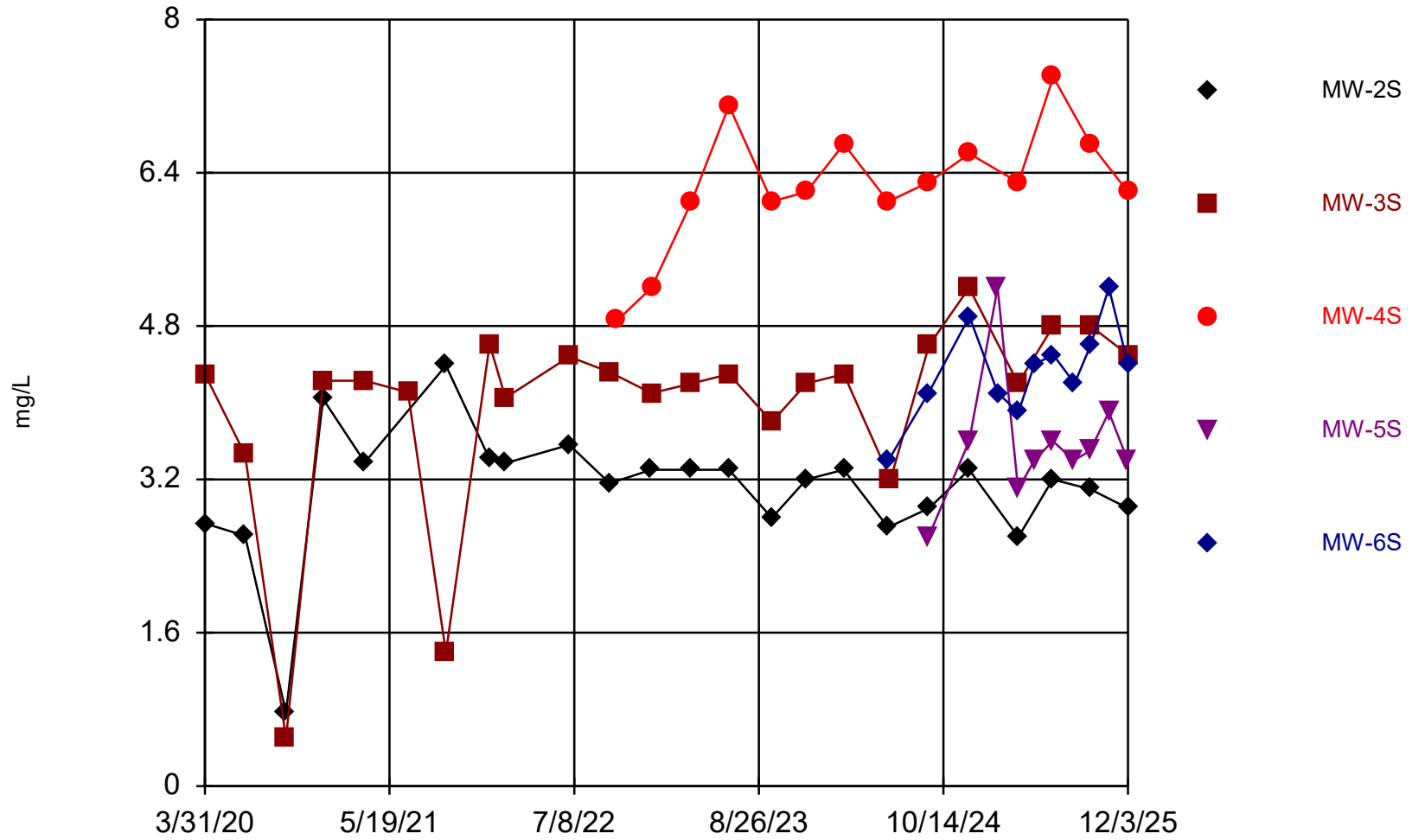
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Time Series



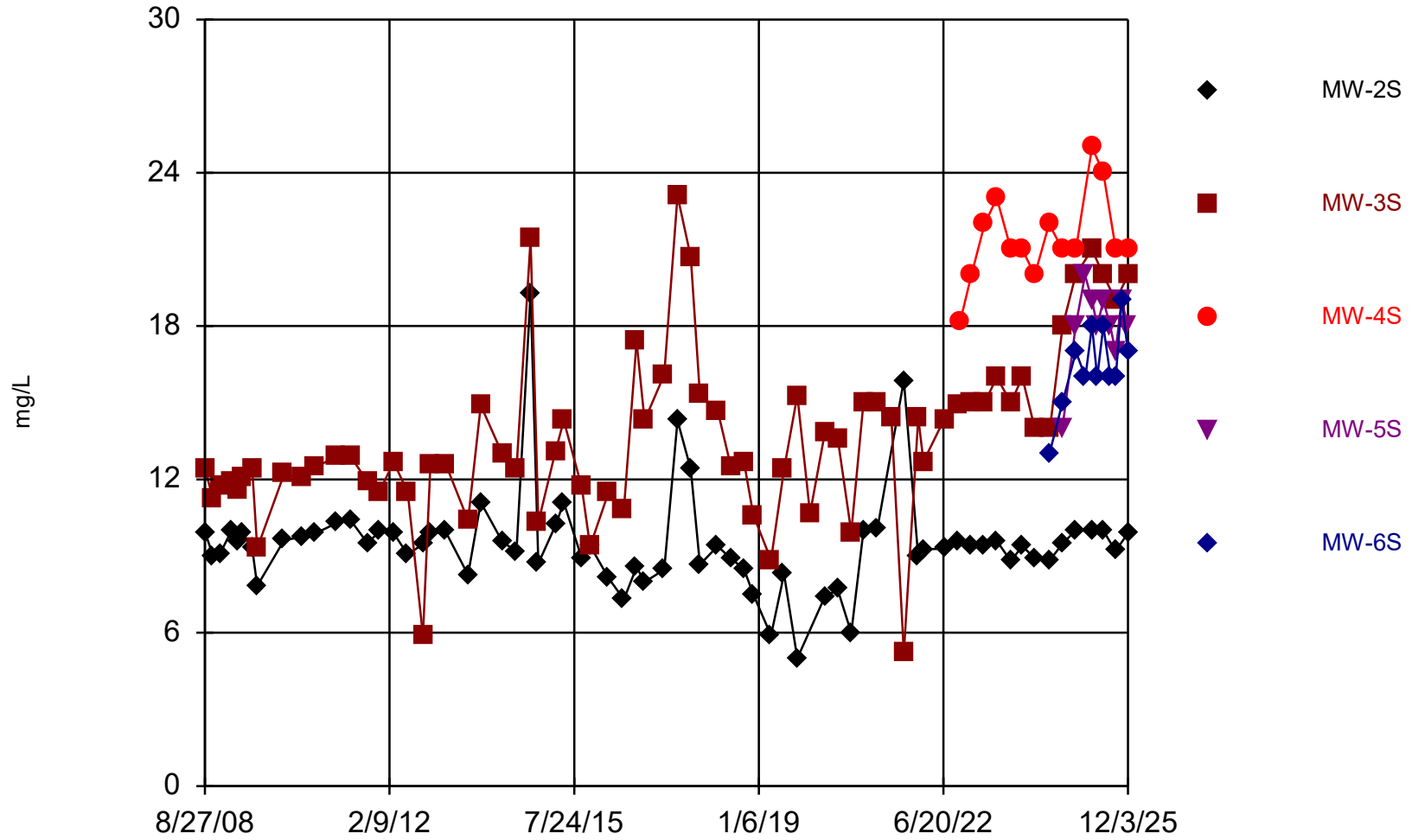
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Time Series



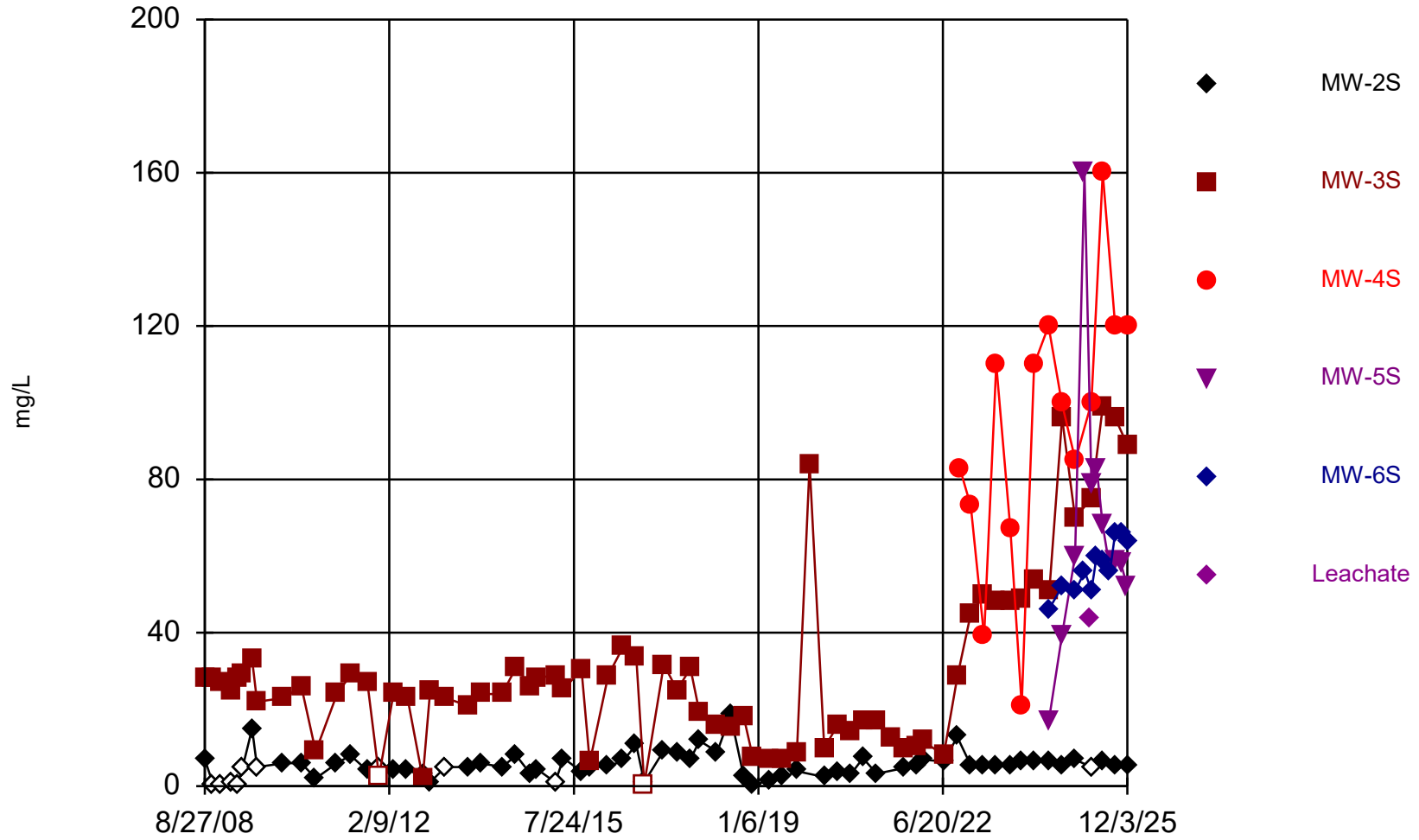
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Time Series



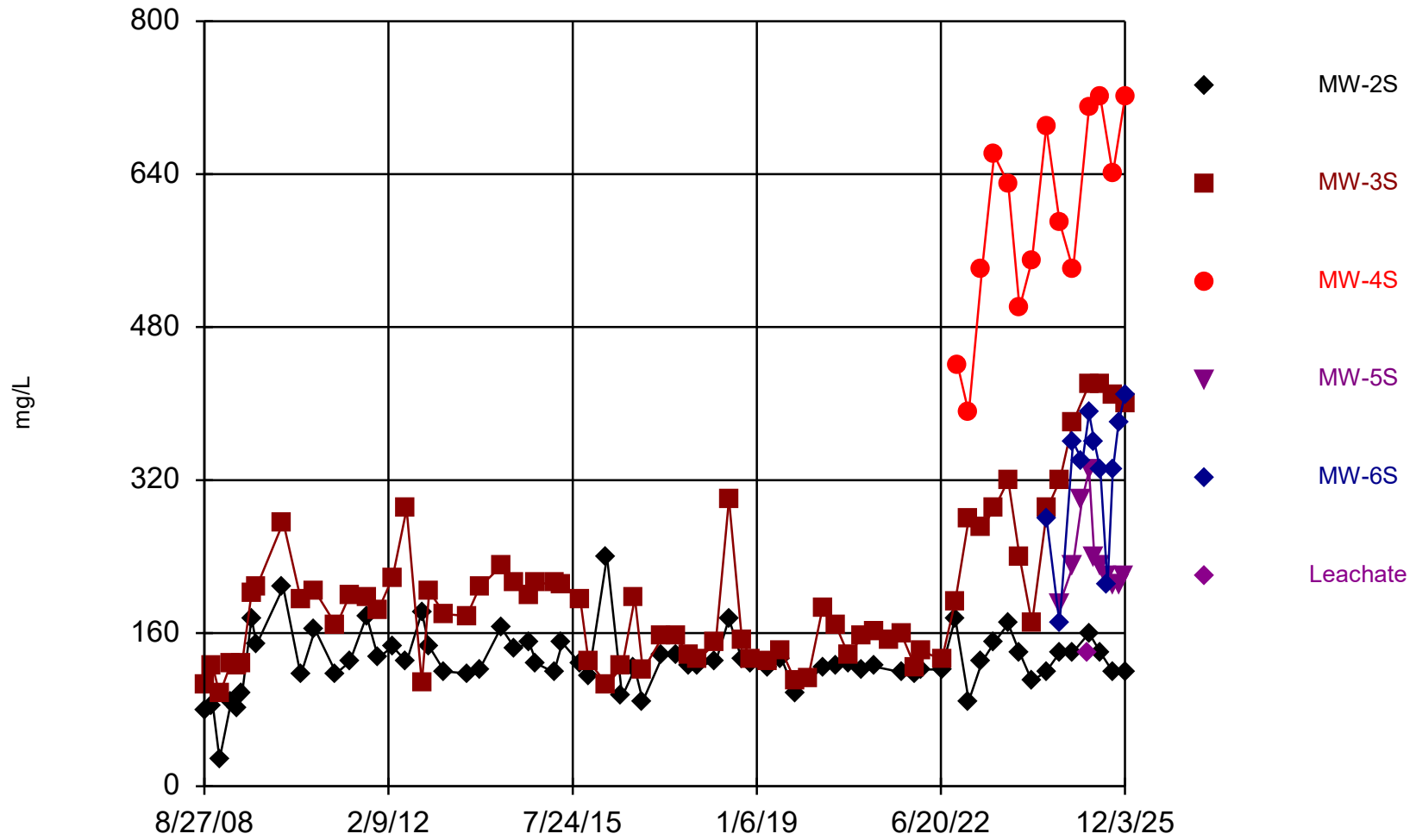
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Time Series



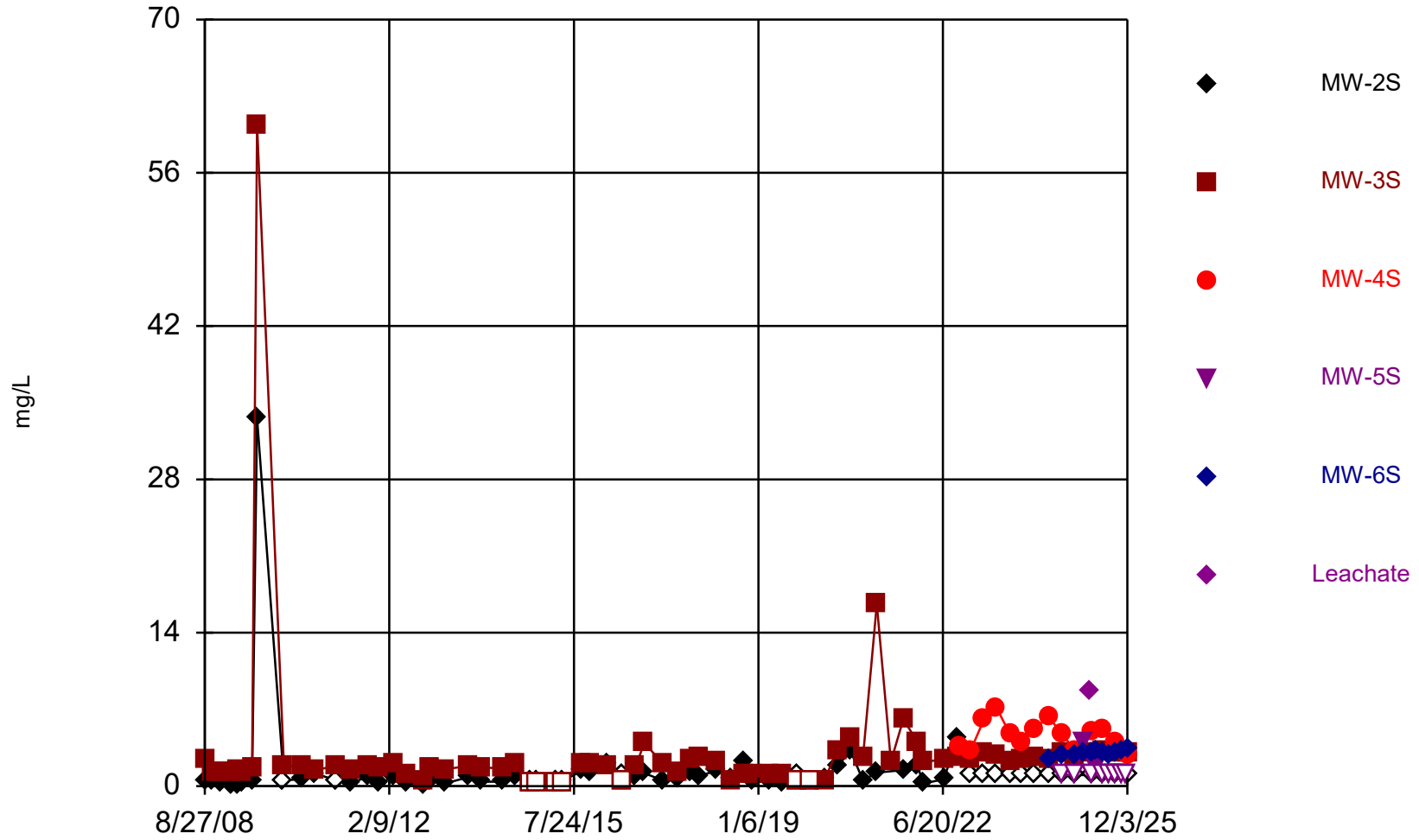
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Time Series



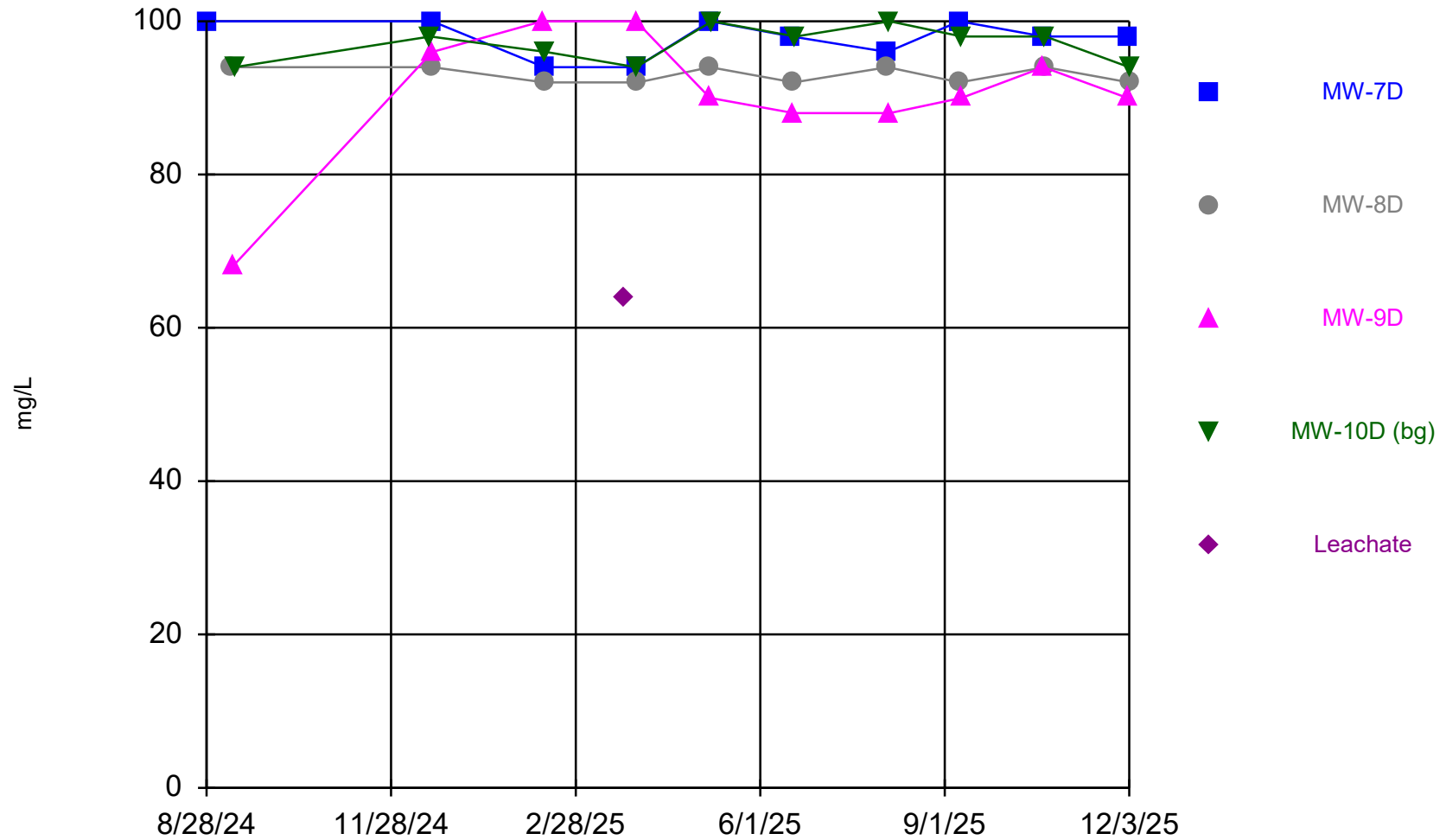
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Time Series



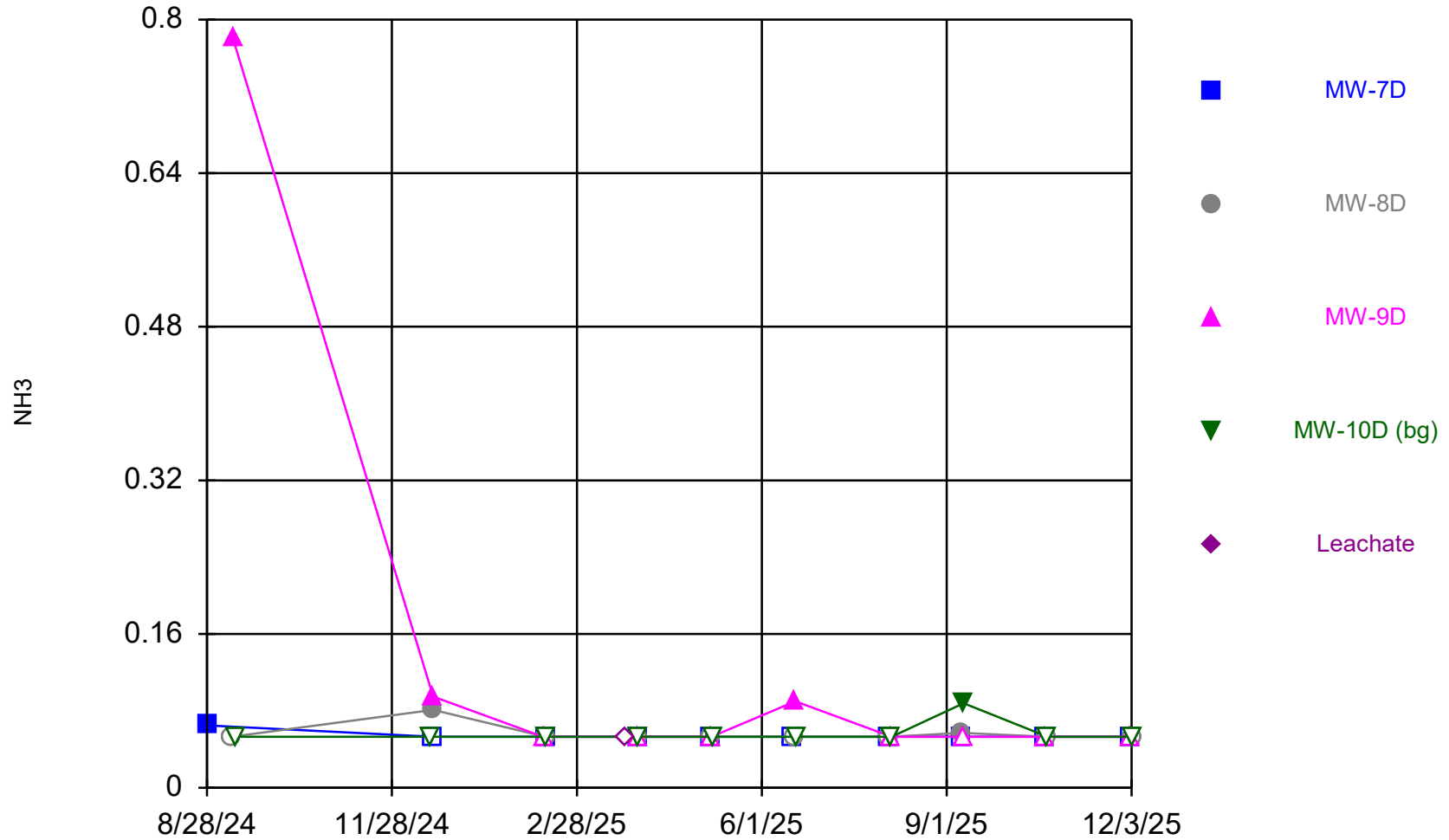
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Time Series



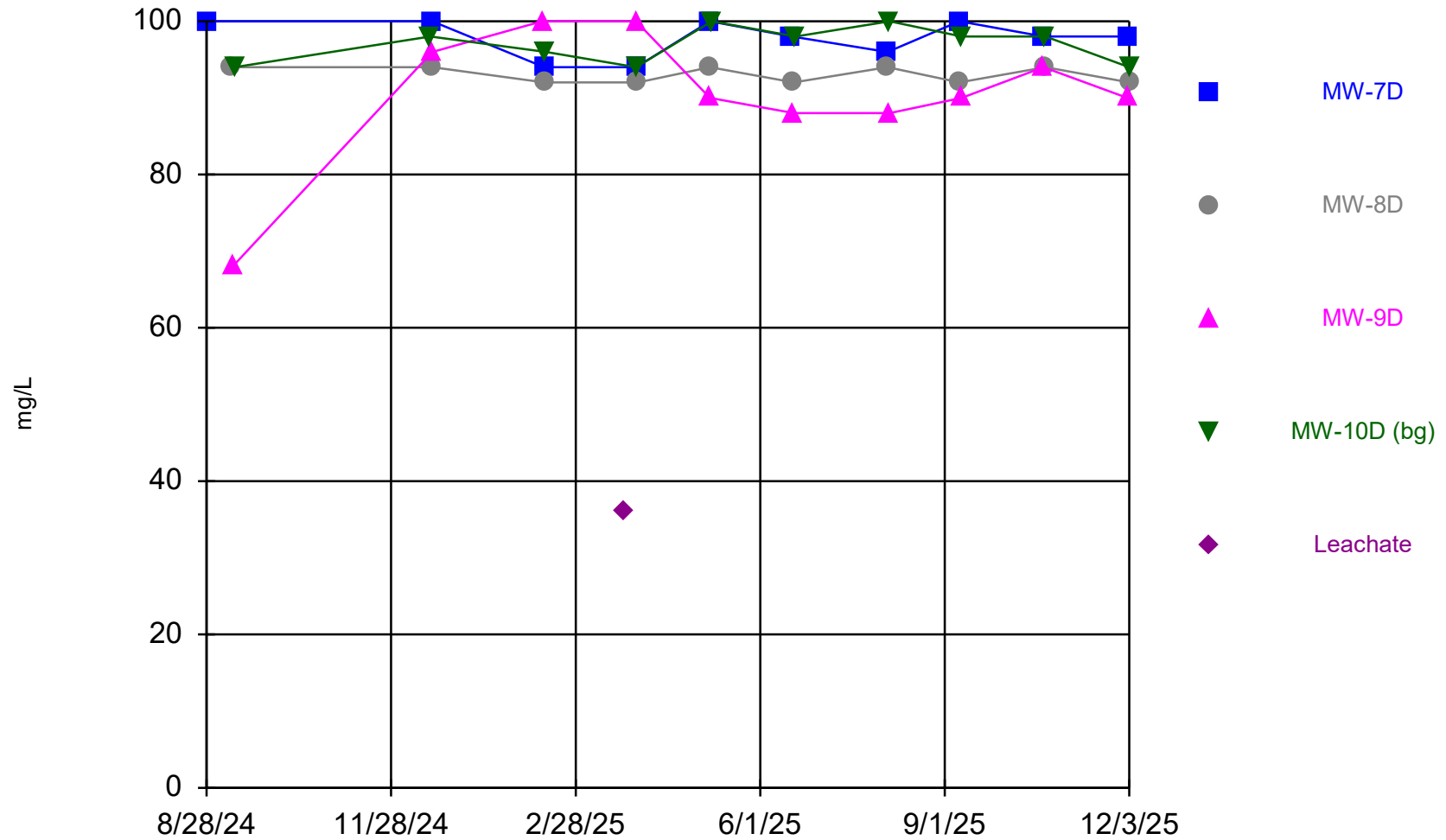
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Time Series



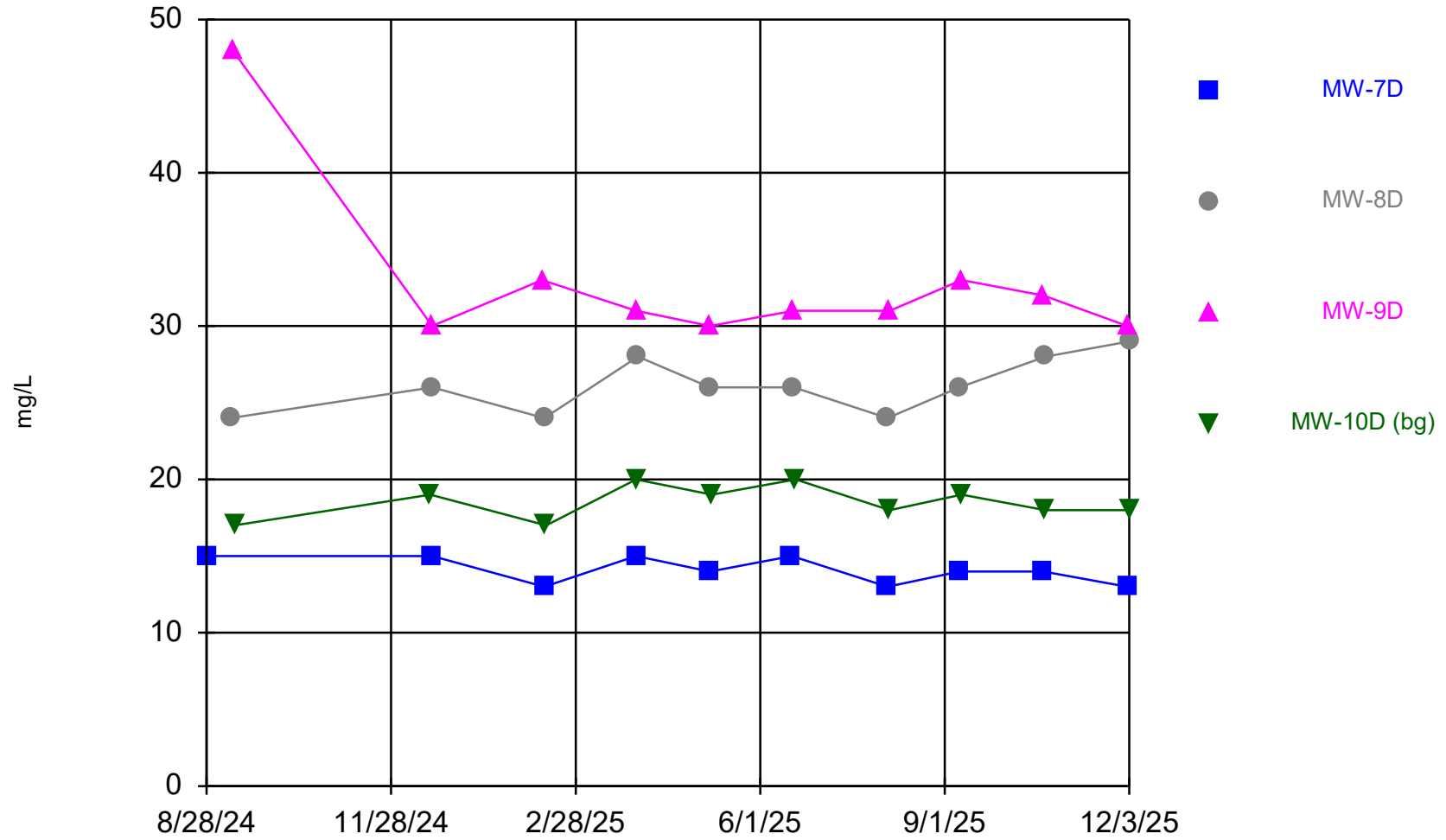
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Time Series



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Time Series



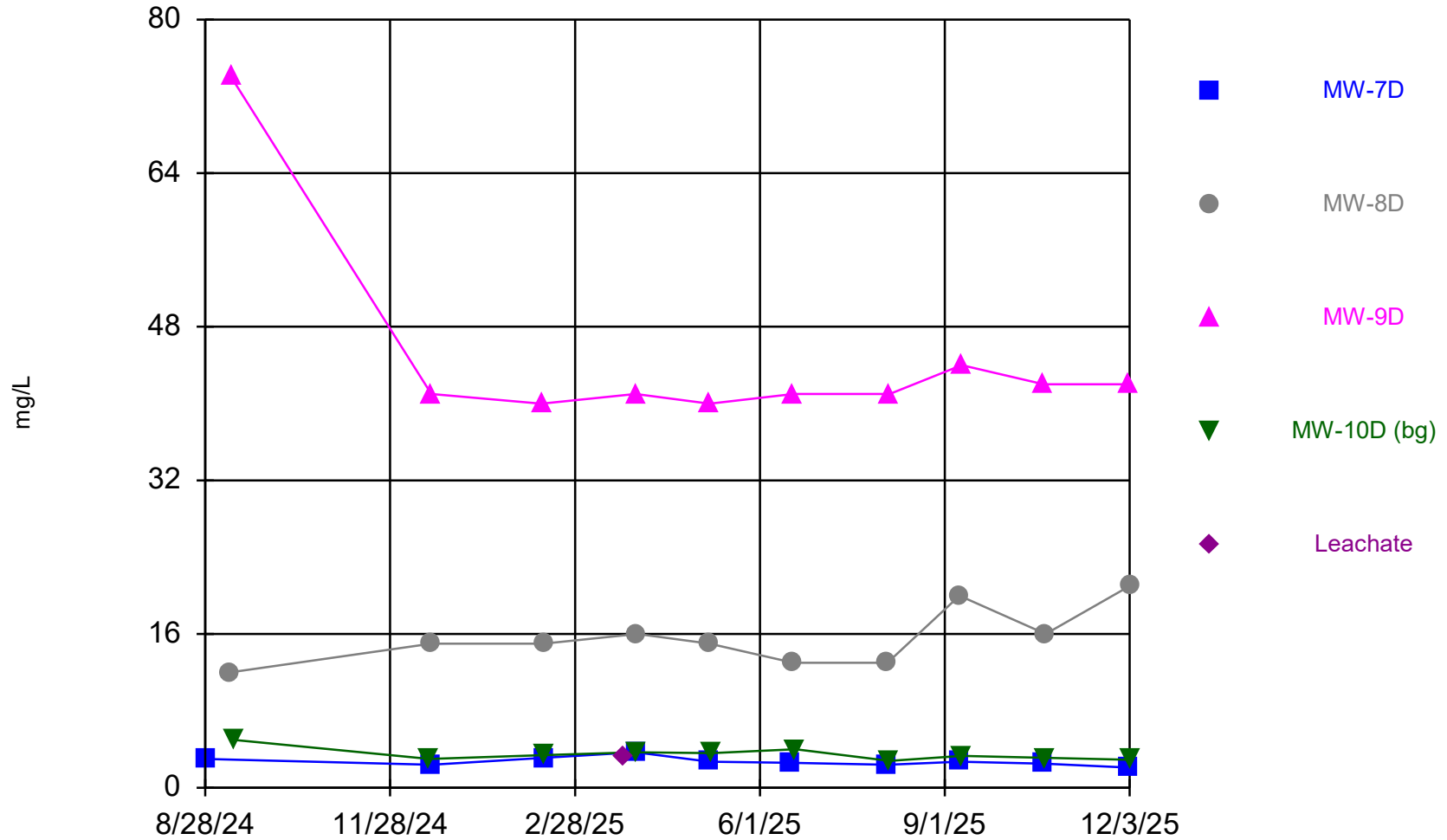
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Time Series



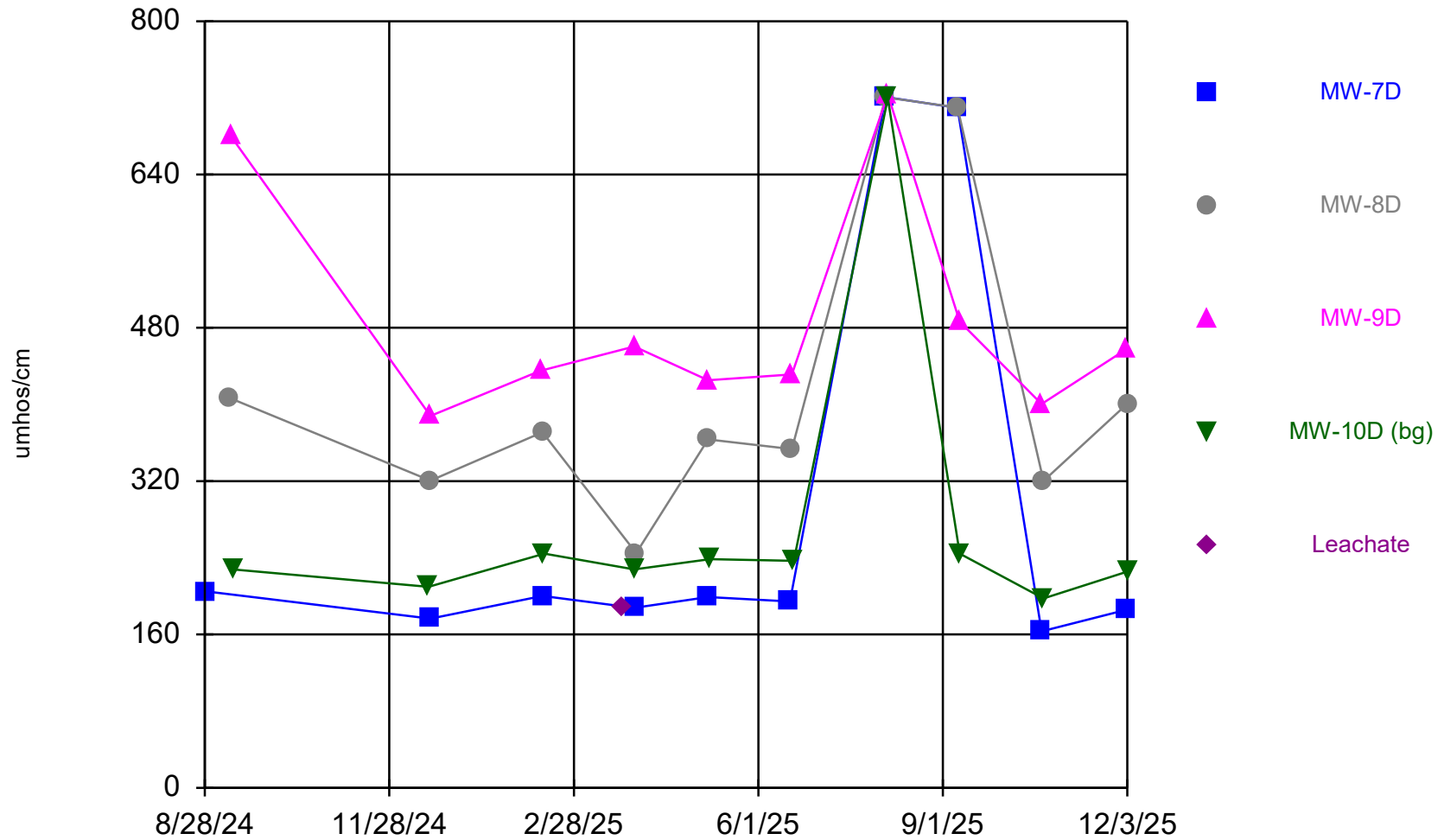
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Time Series



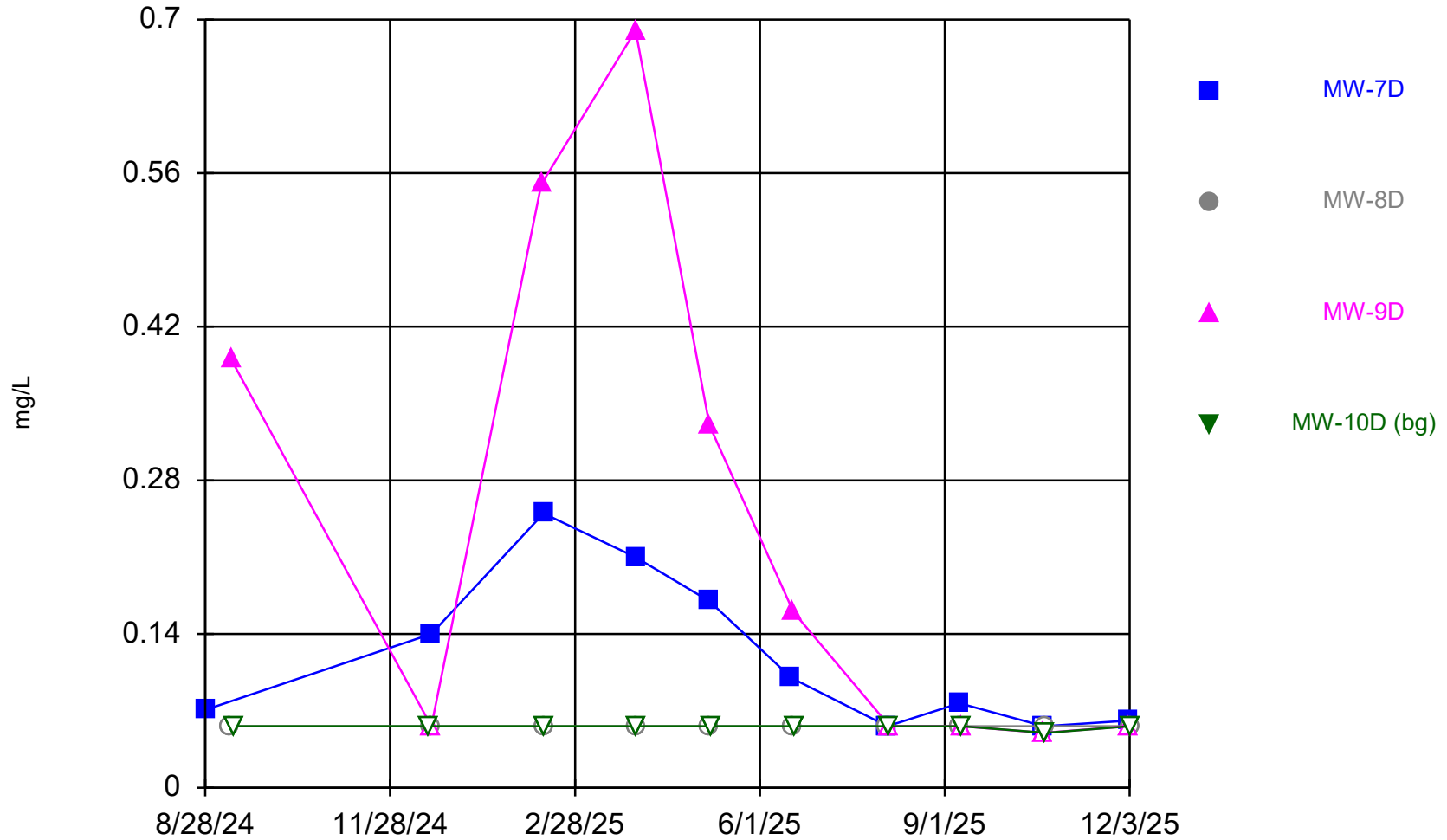
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Time Series



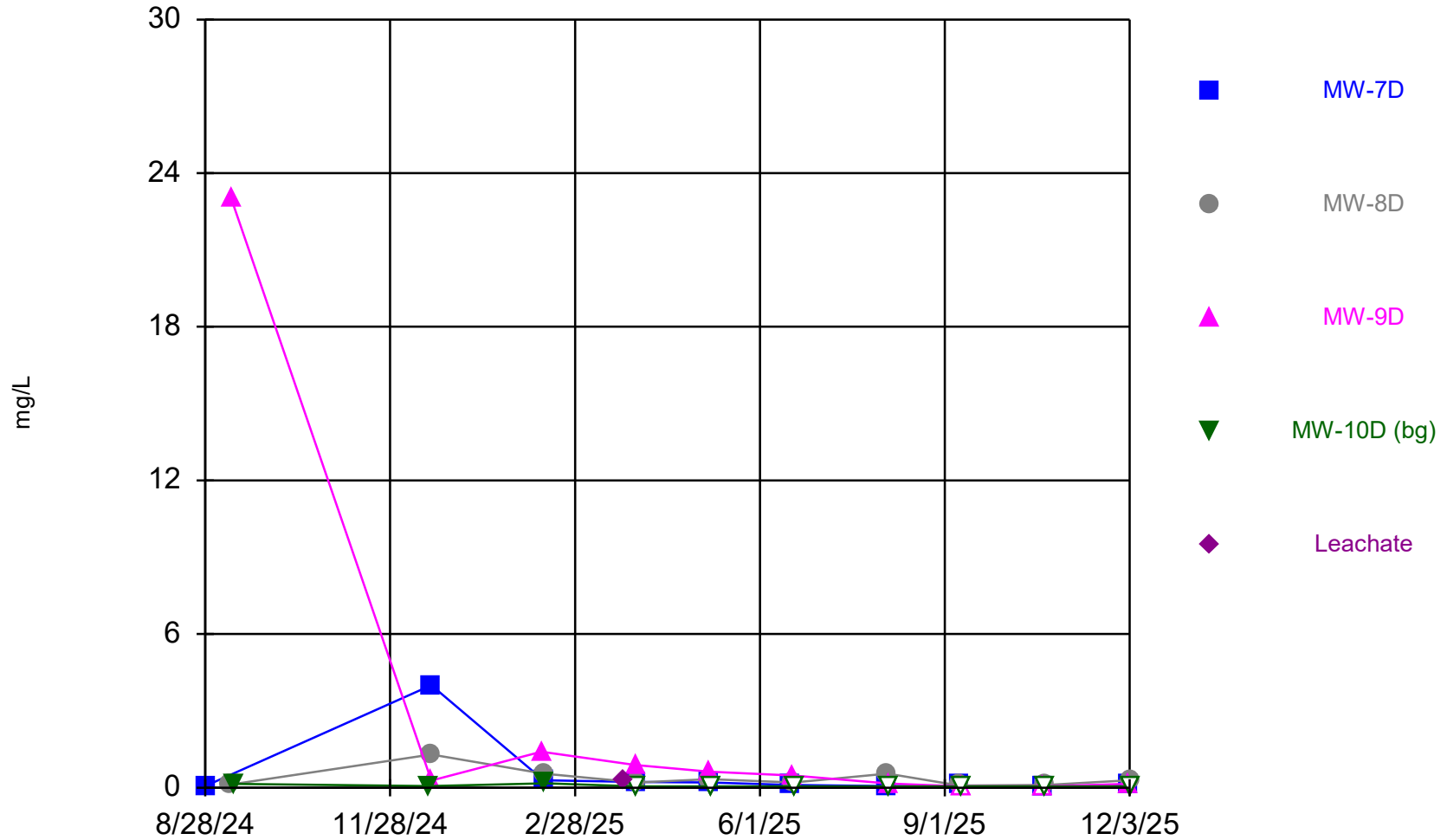
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Time Series



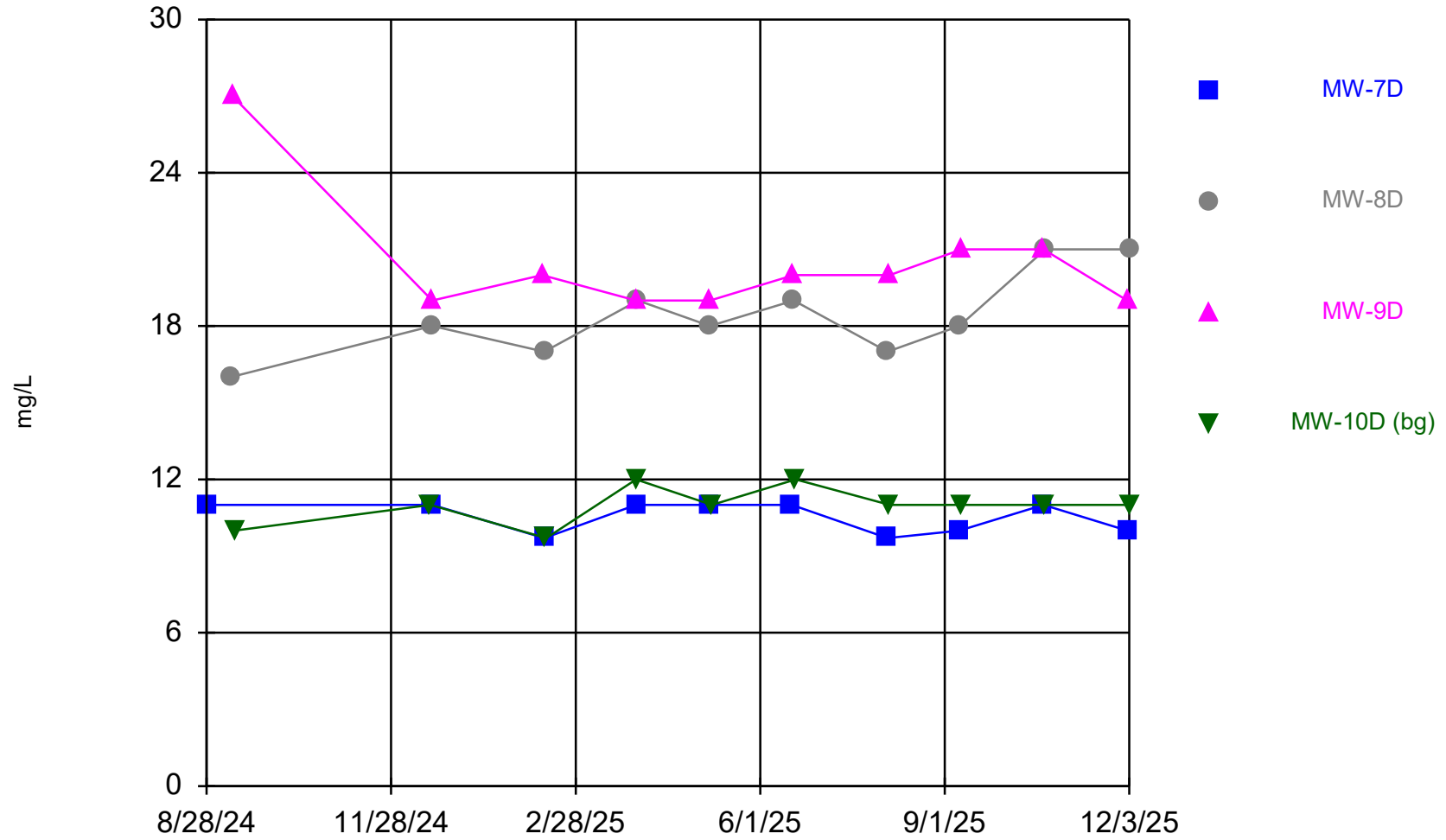
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Time Series



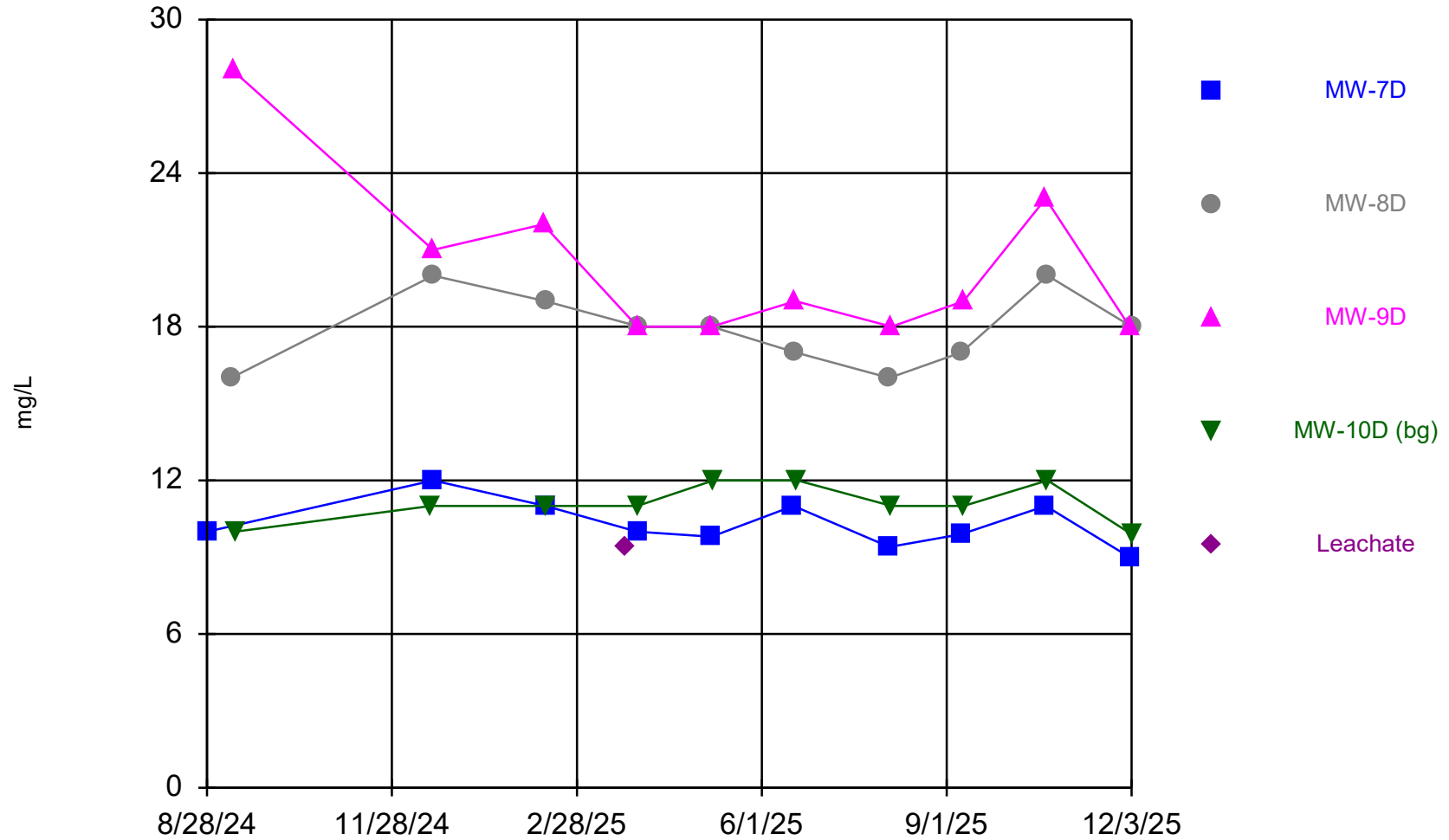
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Time Series



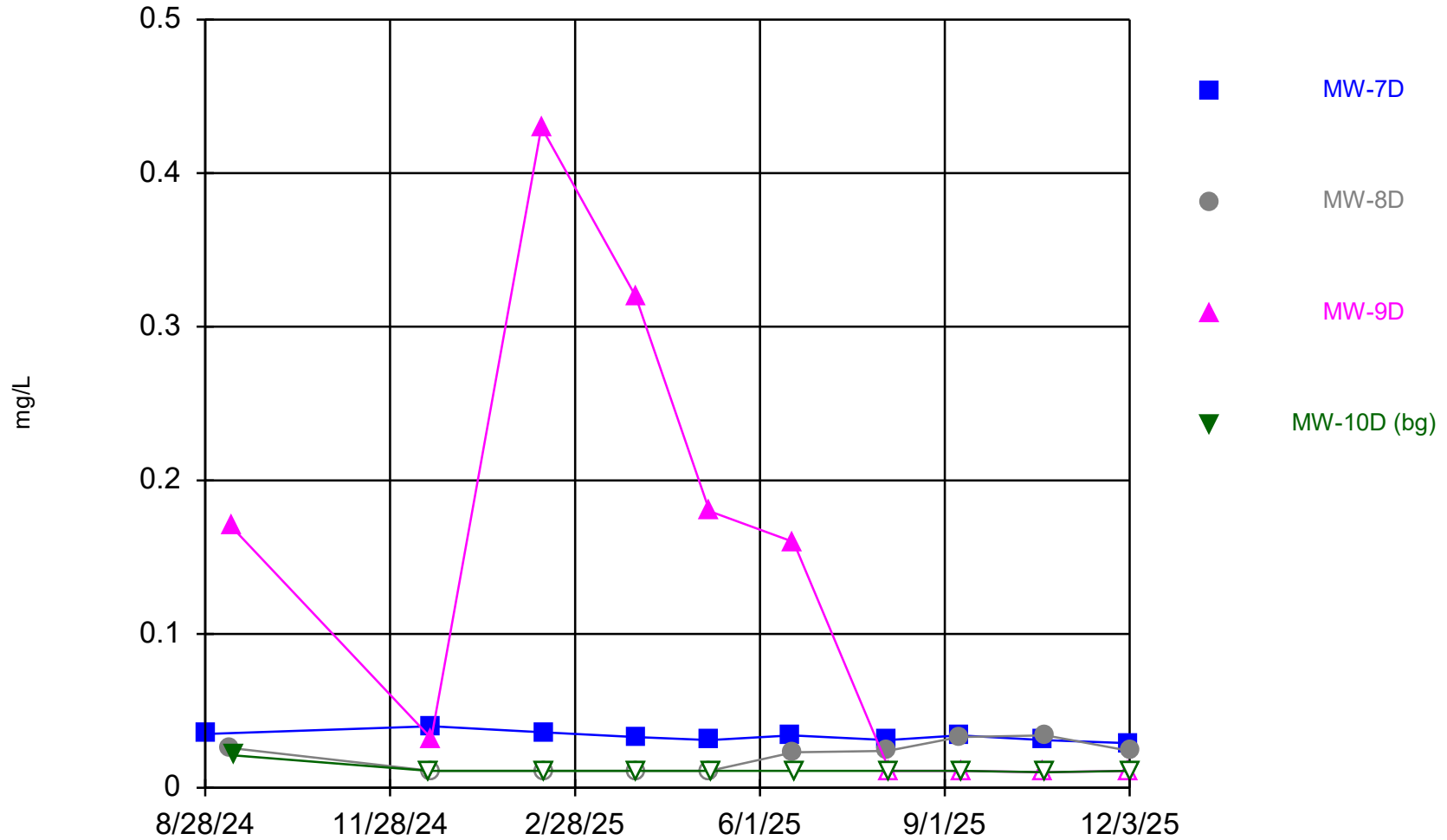
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Time Series



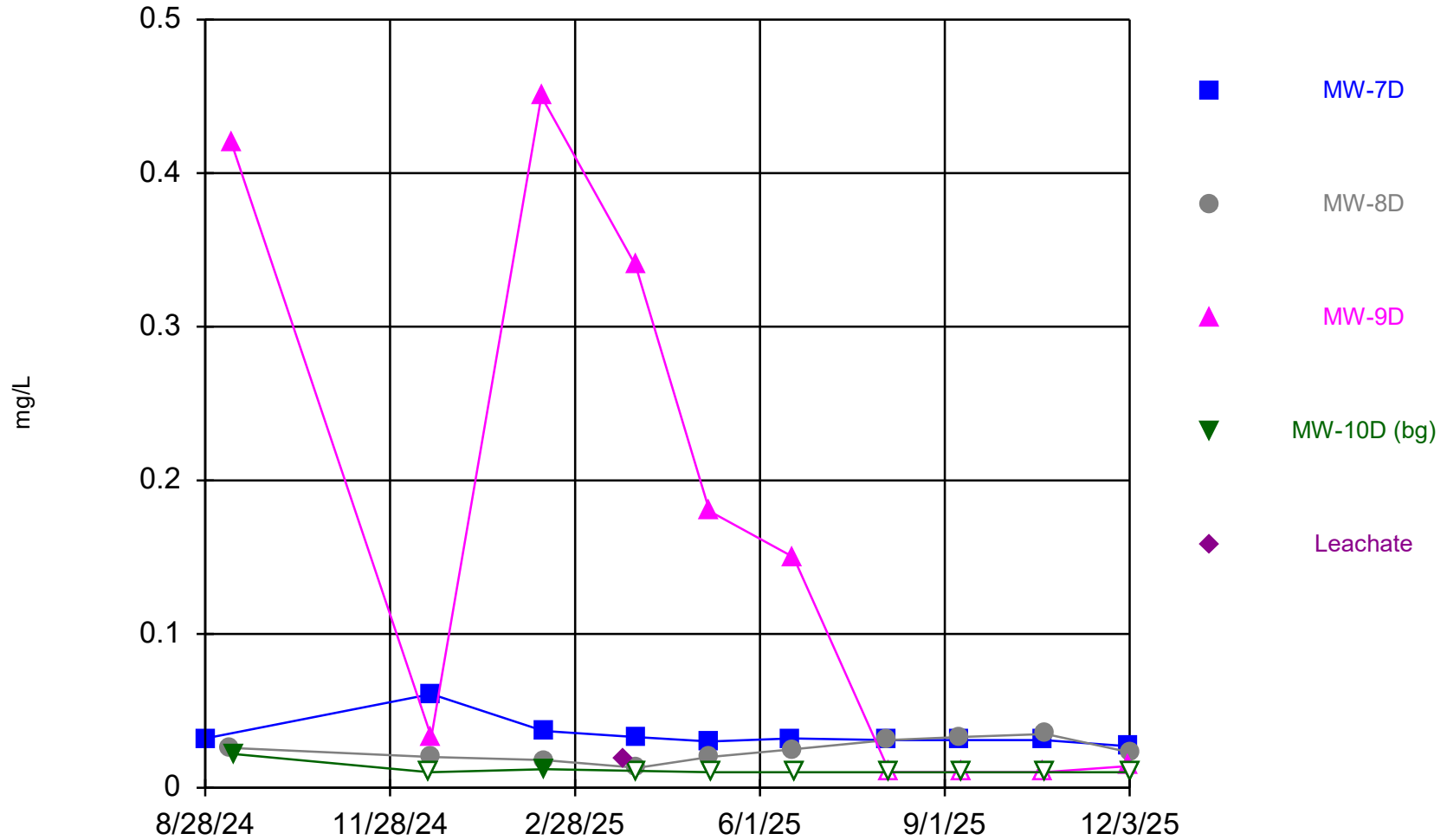
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Time Series



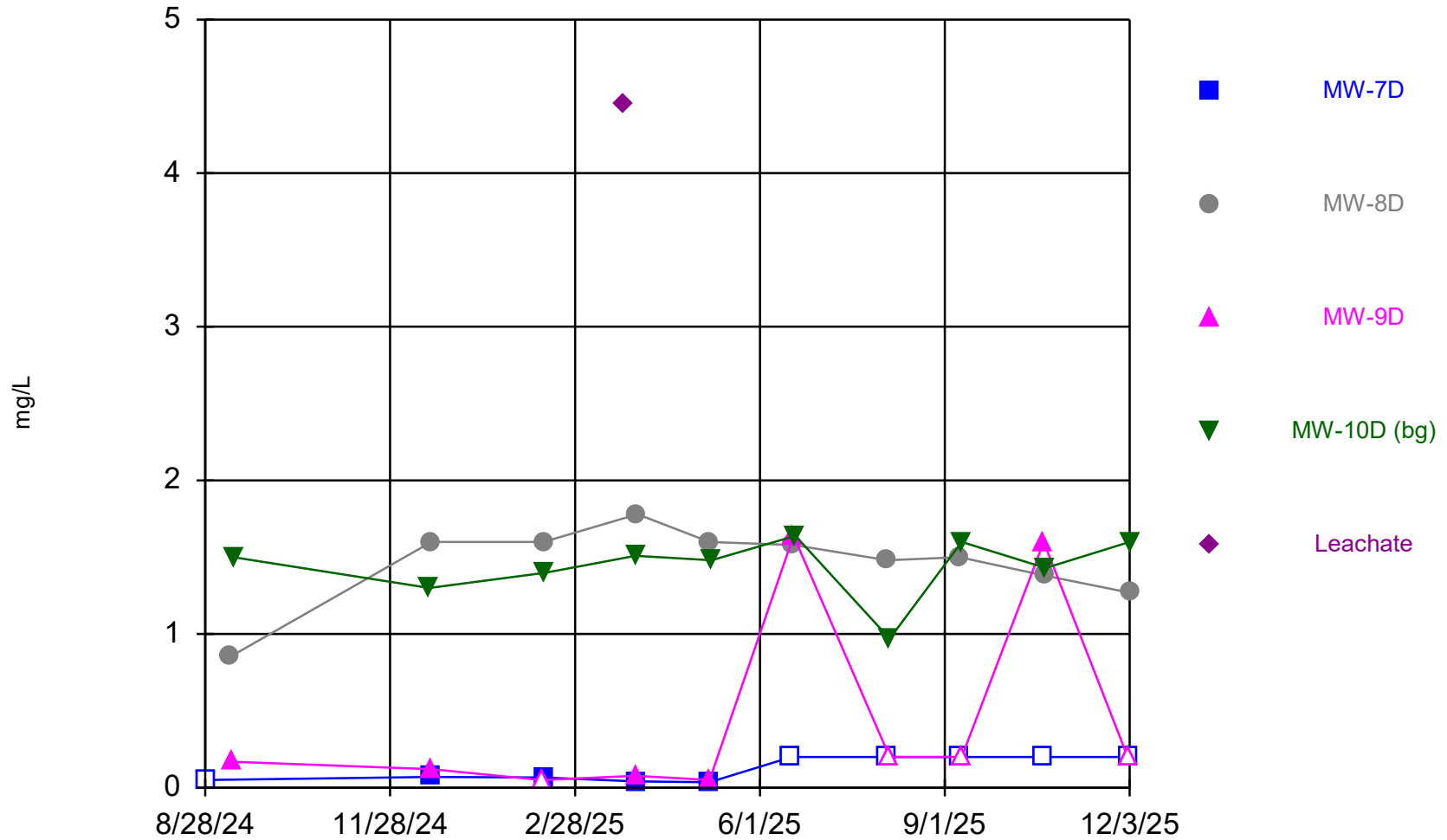
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Time Series



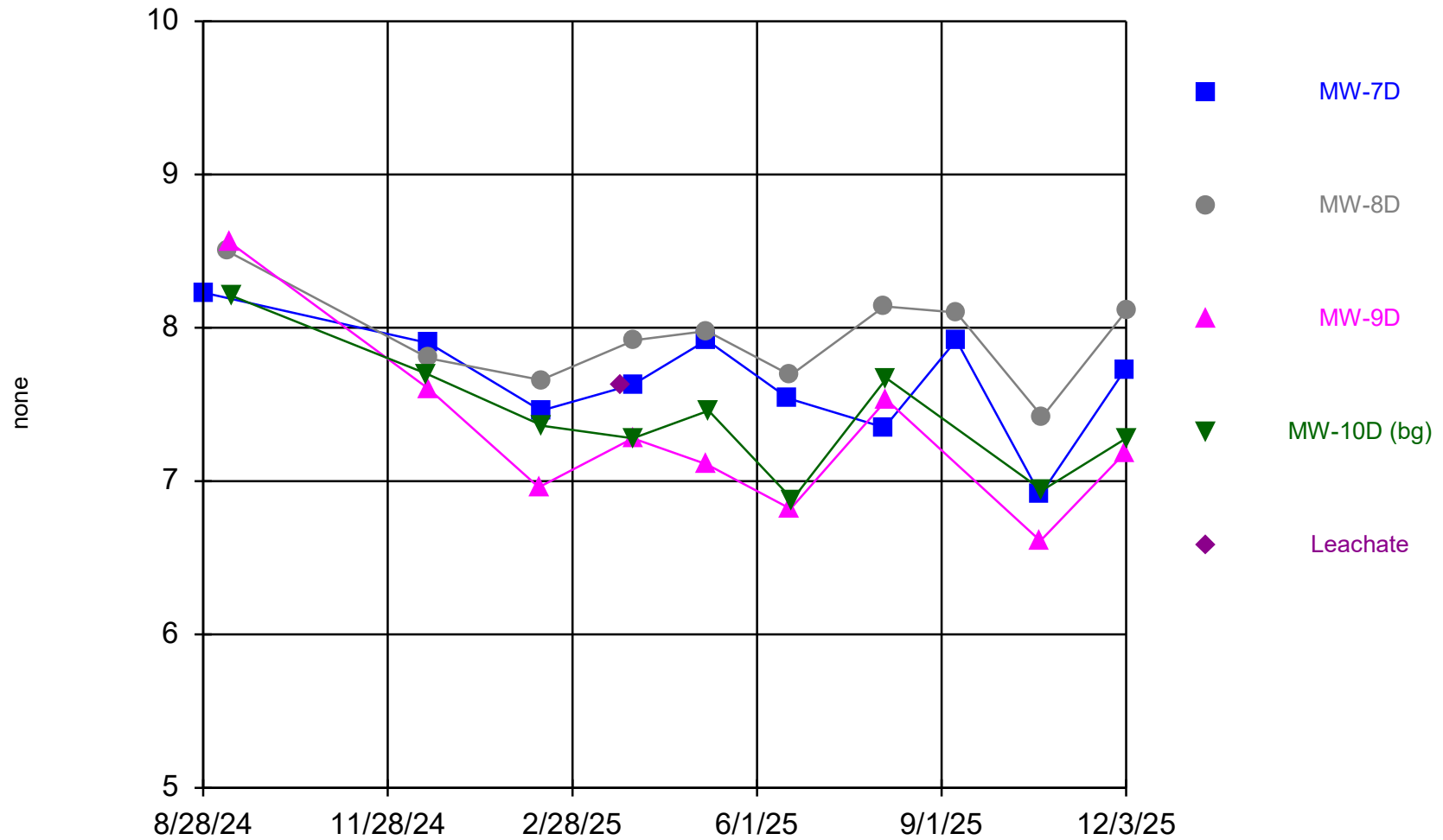
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Time Series



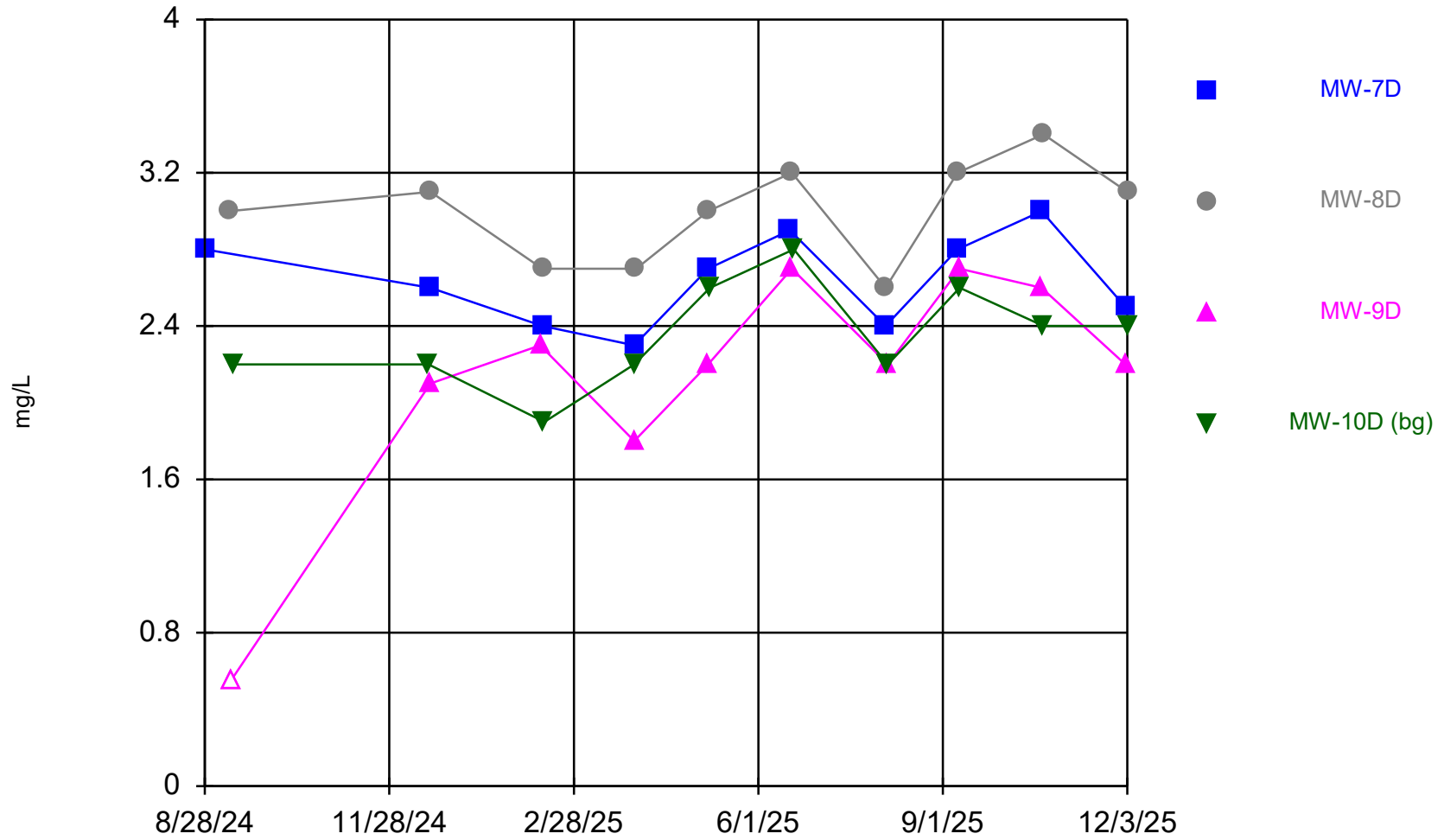
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Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Time Series



Constituent: pH Analysis Run 3/31/2026 10:36 AM View: TSPs
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Time Series



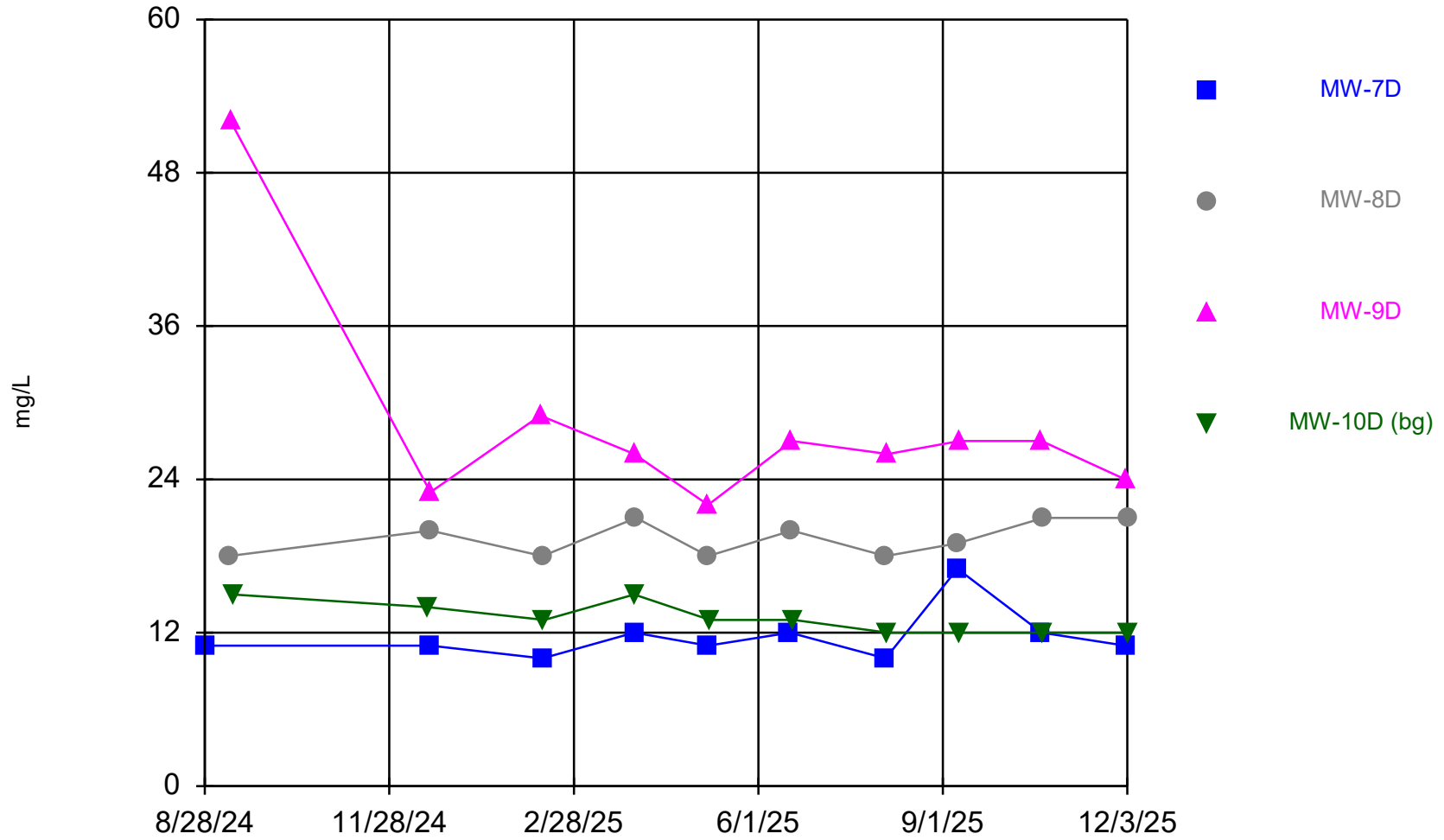
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Time Series



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Time Series



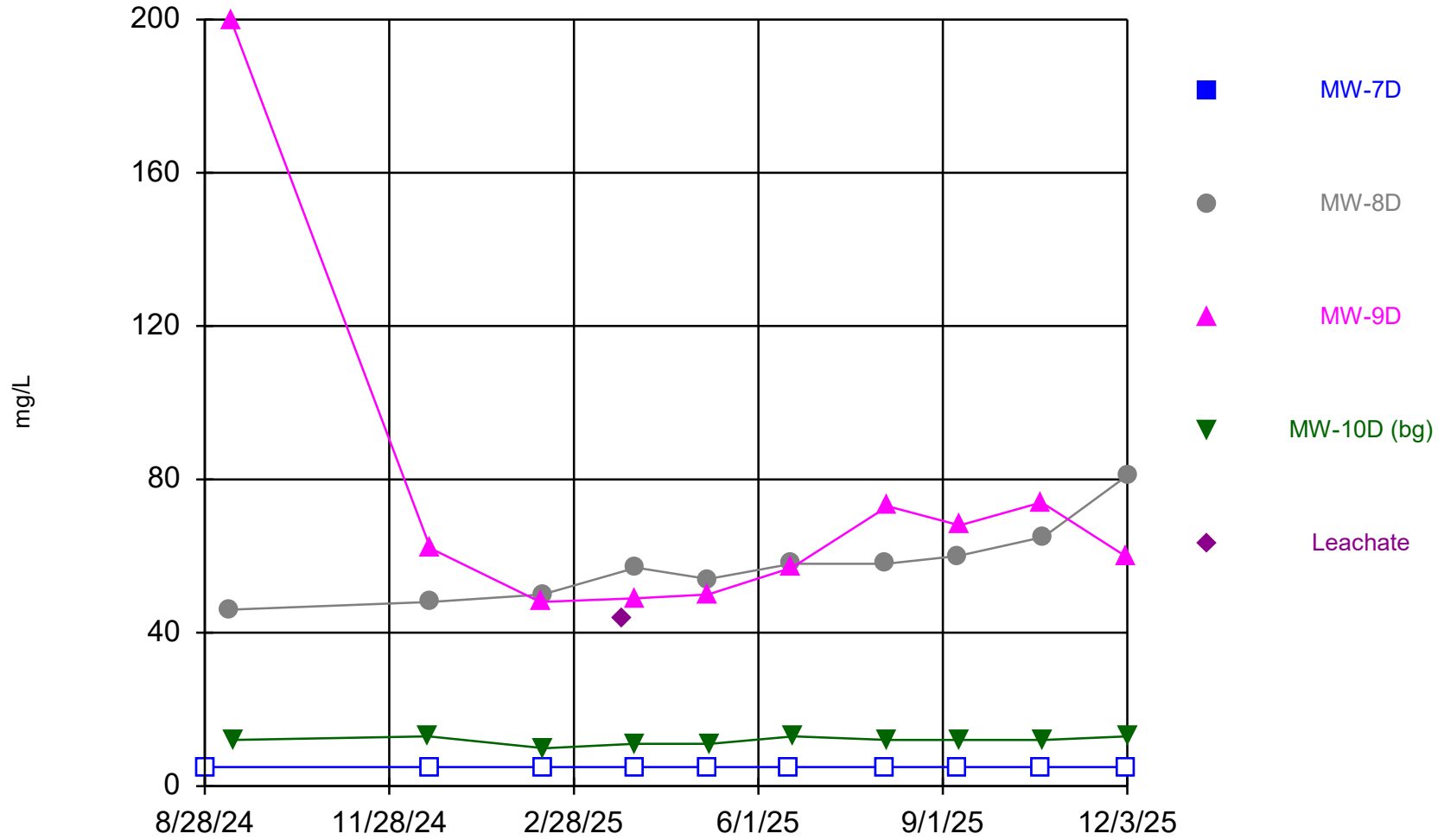
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Time Series



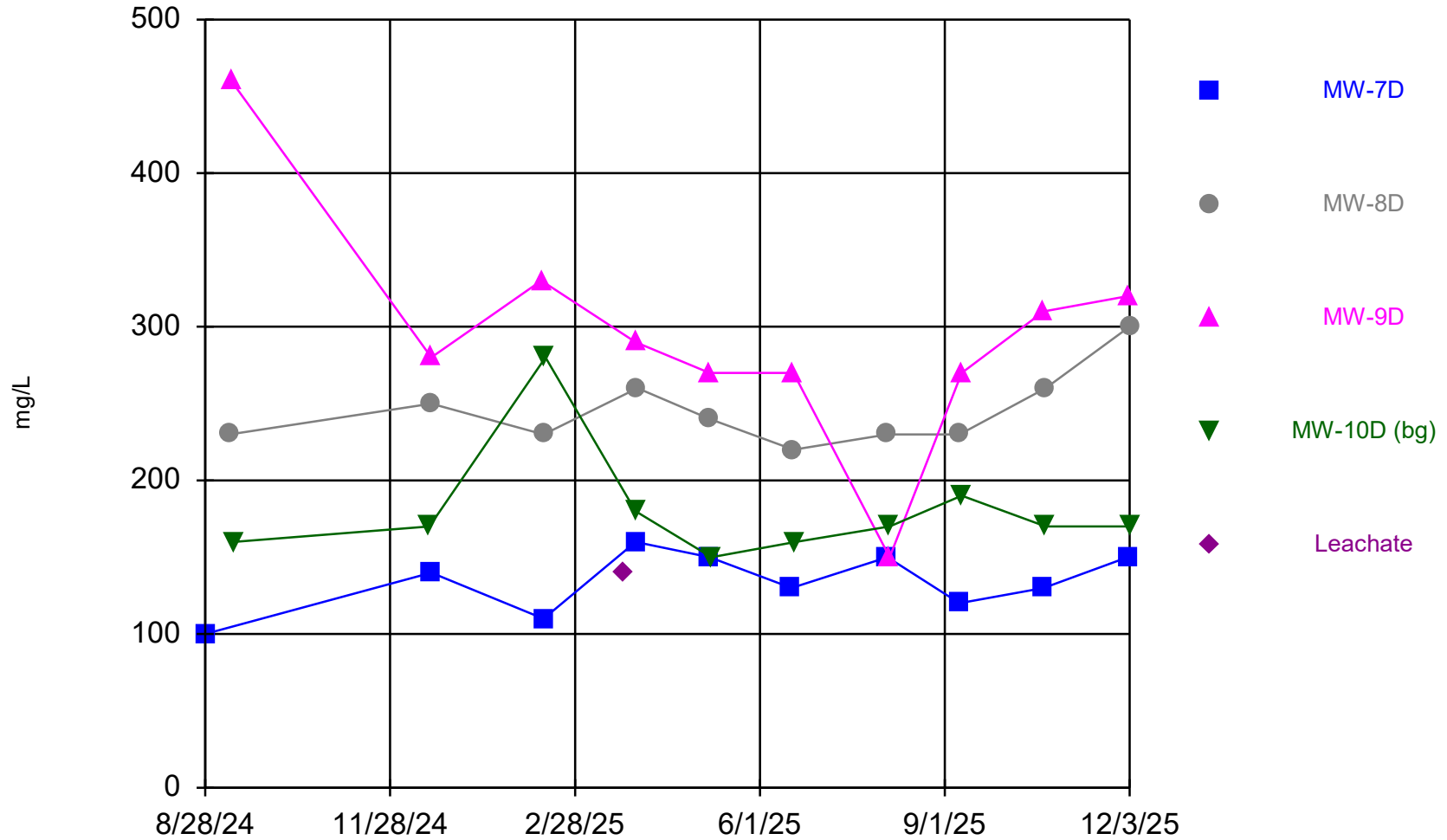
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Time Series



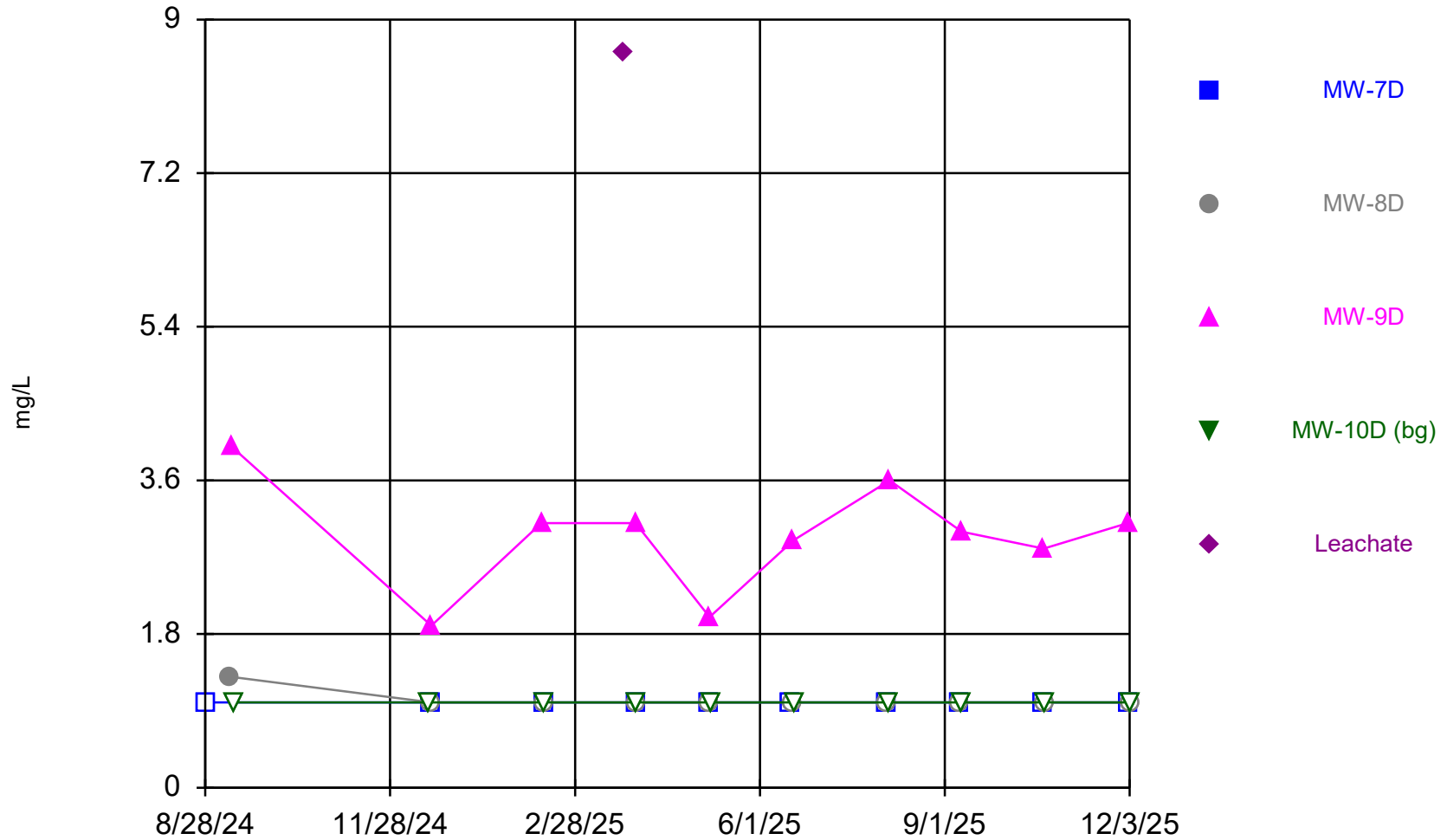
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Time Series



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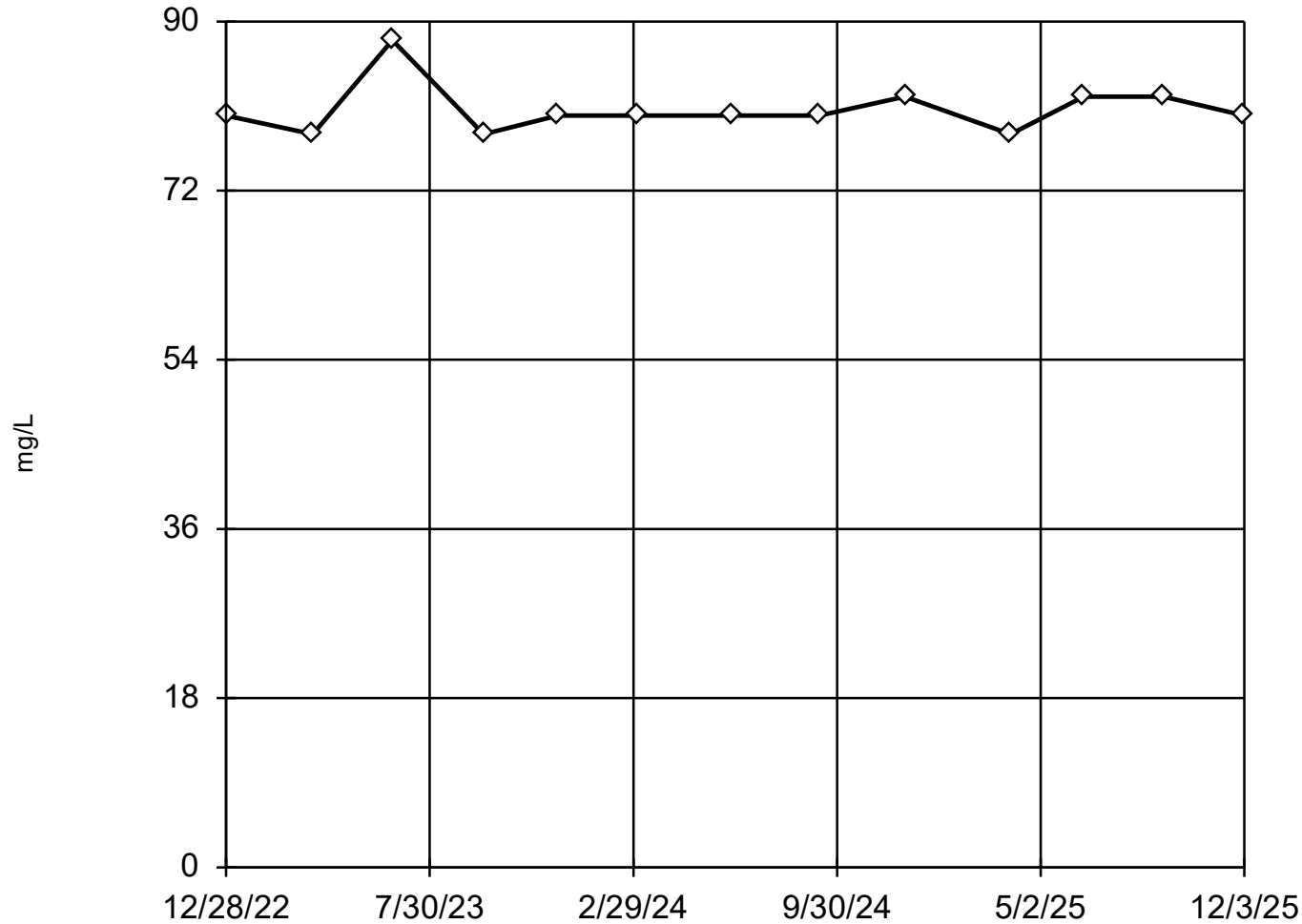
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Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Attachment B

Outlier Test Results

Tukey's Outlier Screening

MW-2S



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

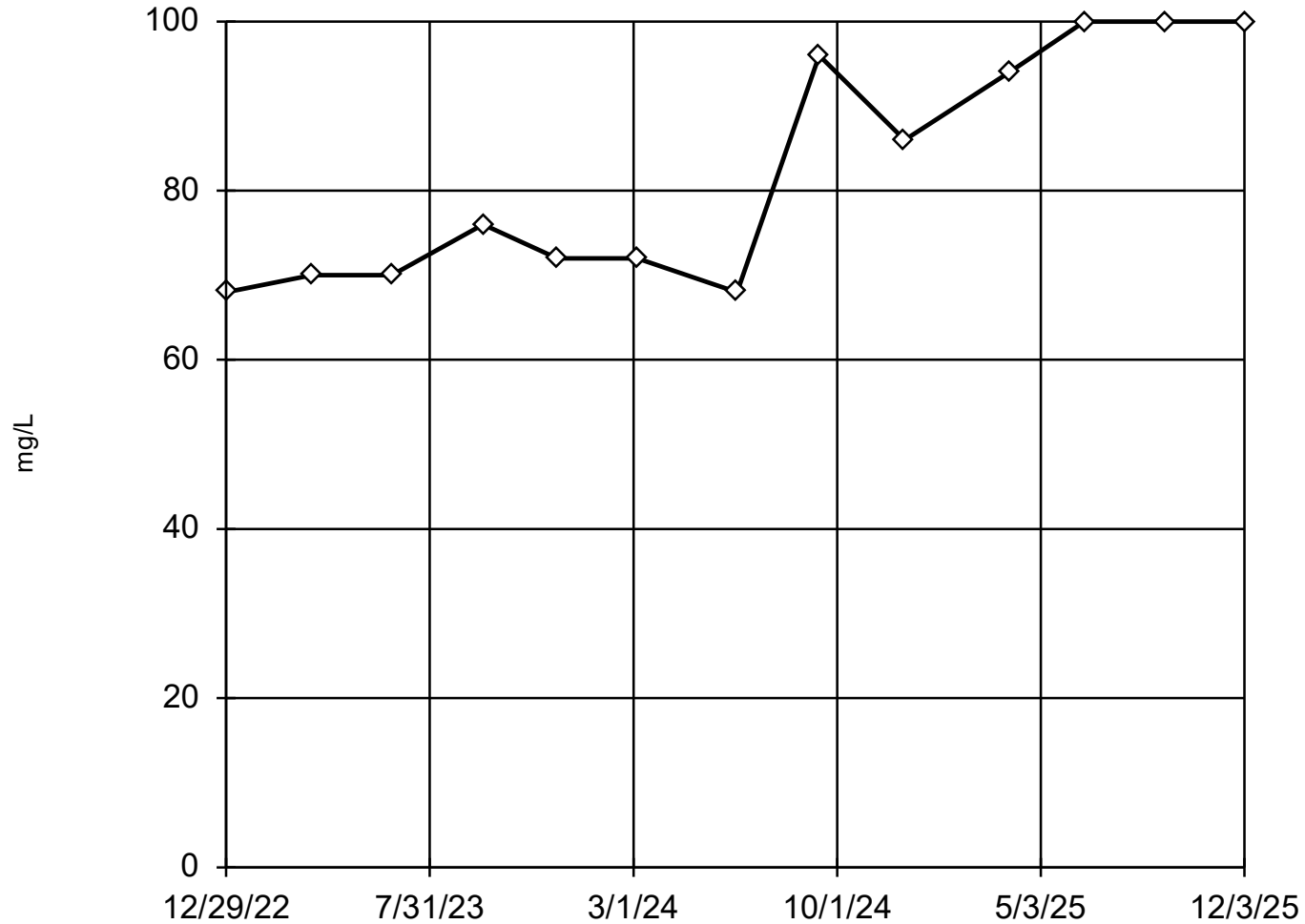
High cutoff = 91.72, low cutoff = 70.62, based on IQR multiplier of 3.

Constituent: Alkalinity, Total Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-3S



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

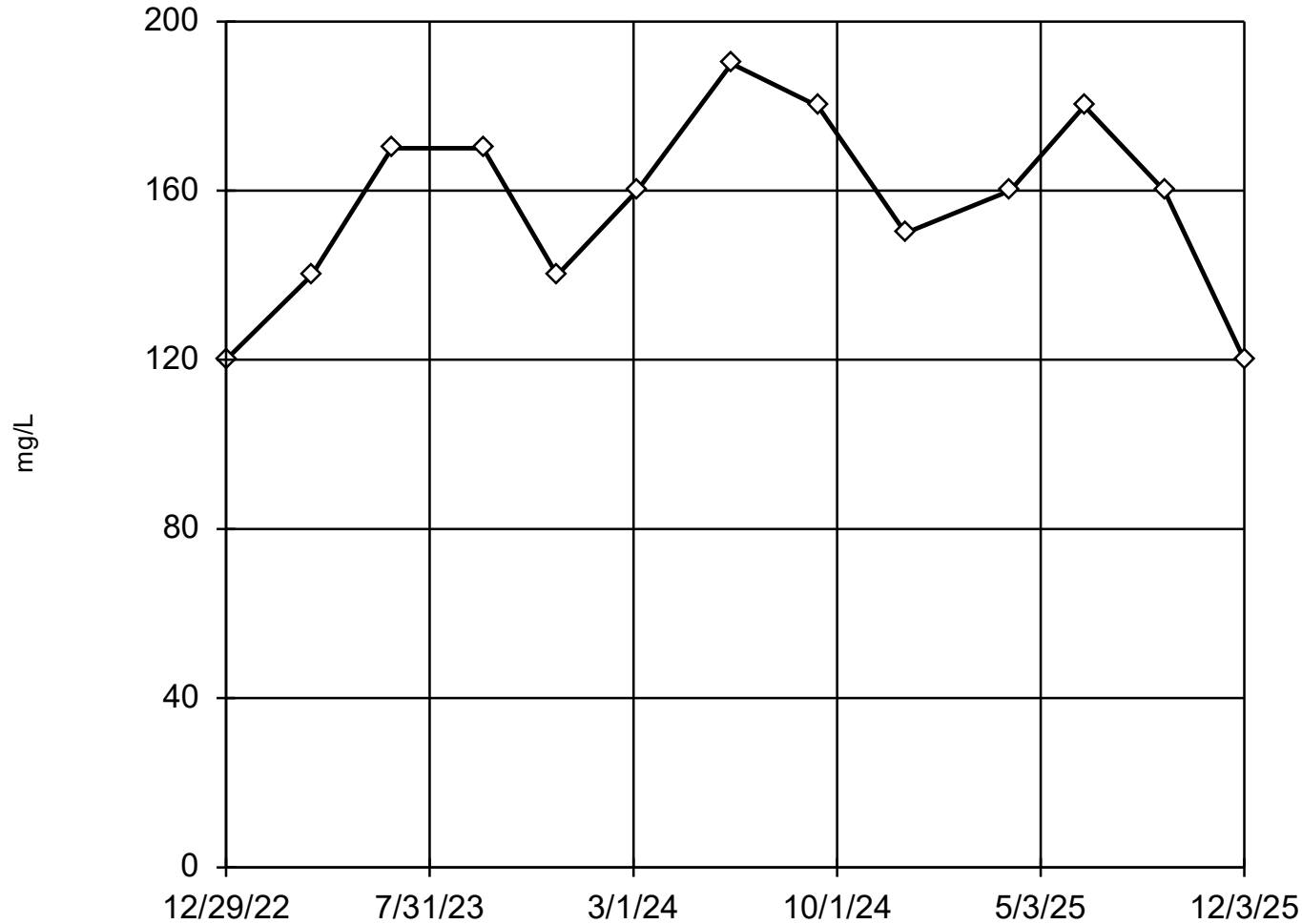
High cutoff = 268.7, low cutoff = 25.53, based on IQR multiplier of 3.

Constituent: Alkalinity, Total Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-4S



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 156.9, std. dev. 22.13, critical Tn 2.331

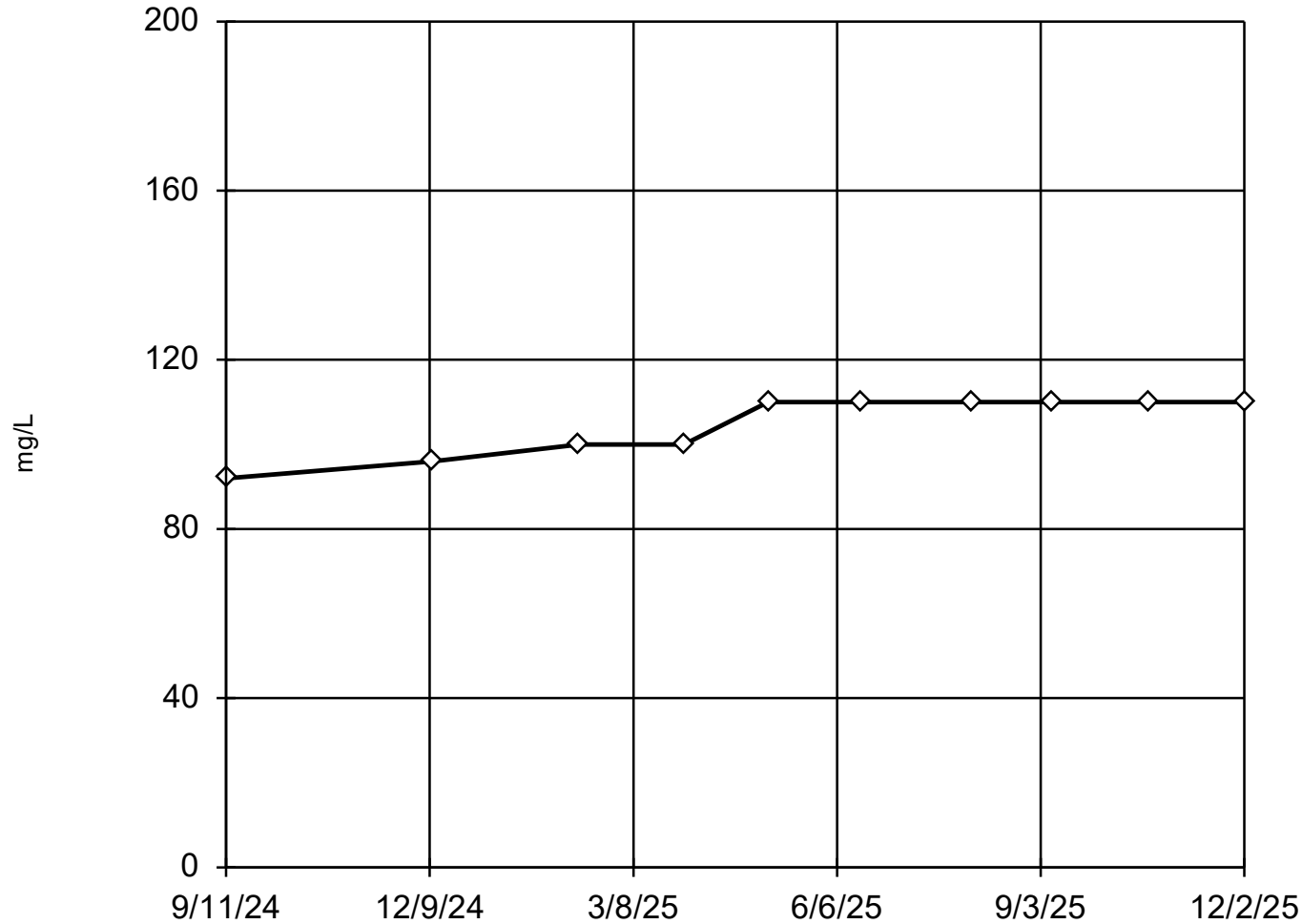
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9426
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Alkalinity, Total Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-5S



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

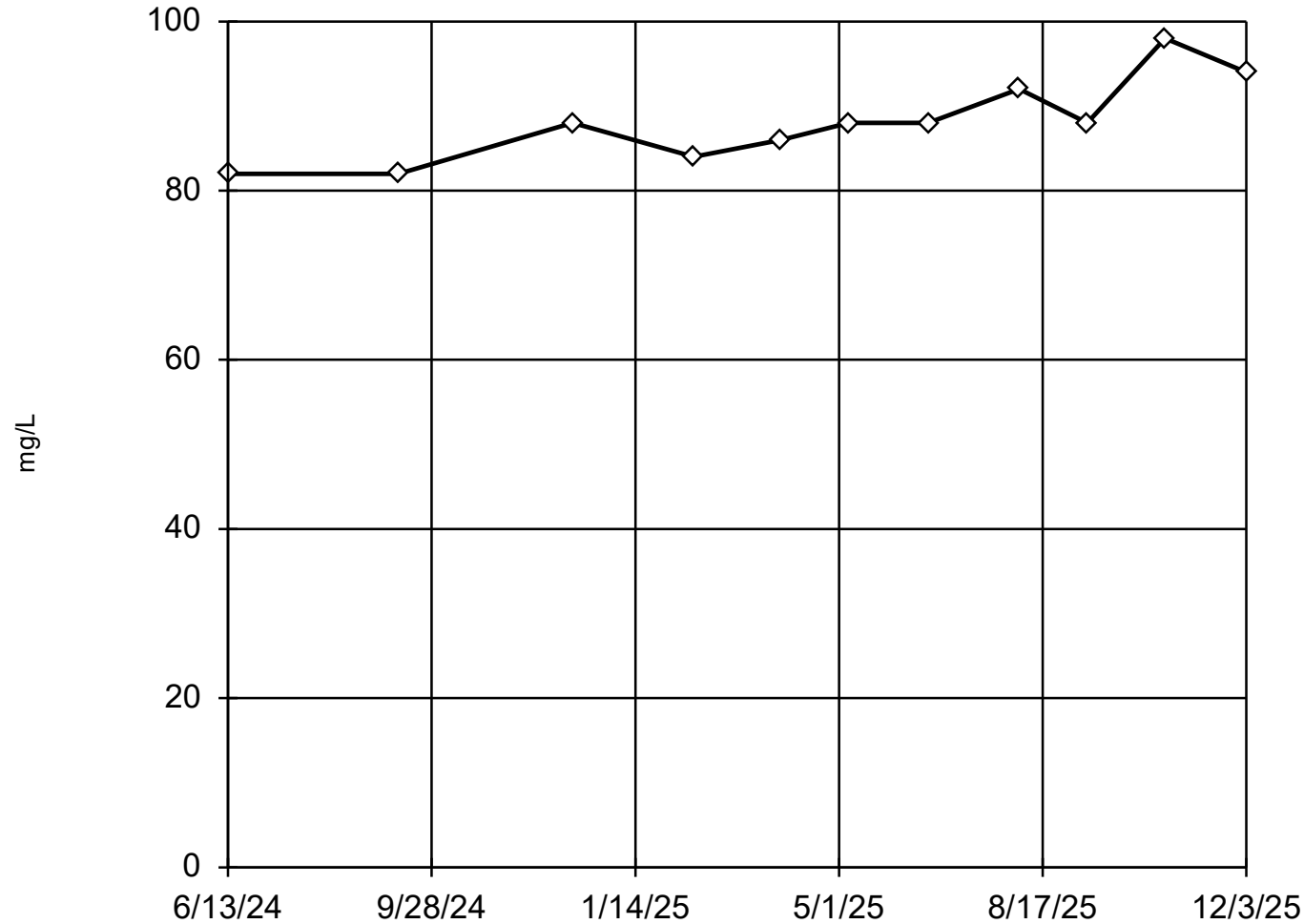
High cutoff = 155.7, low cutoff = 69.24, based on IQR multiplier of 3.

Constituent: Alkalinity, Total Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-6S



n = 11

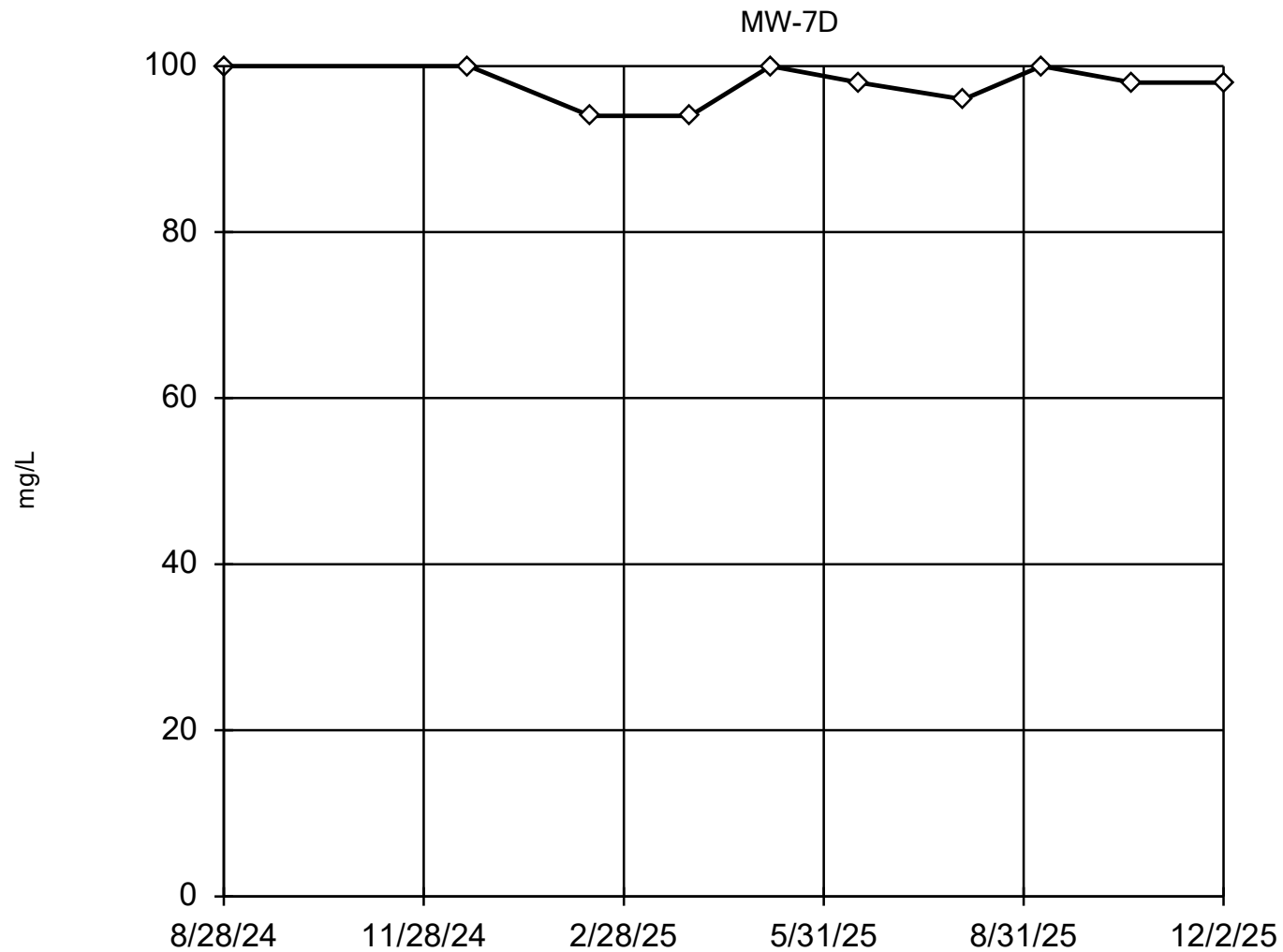
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 88.18, std. dev. 4.936, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9276
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: Alkalinity, Total Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

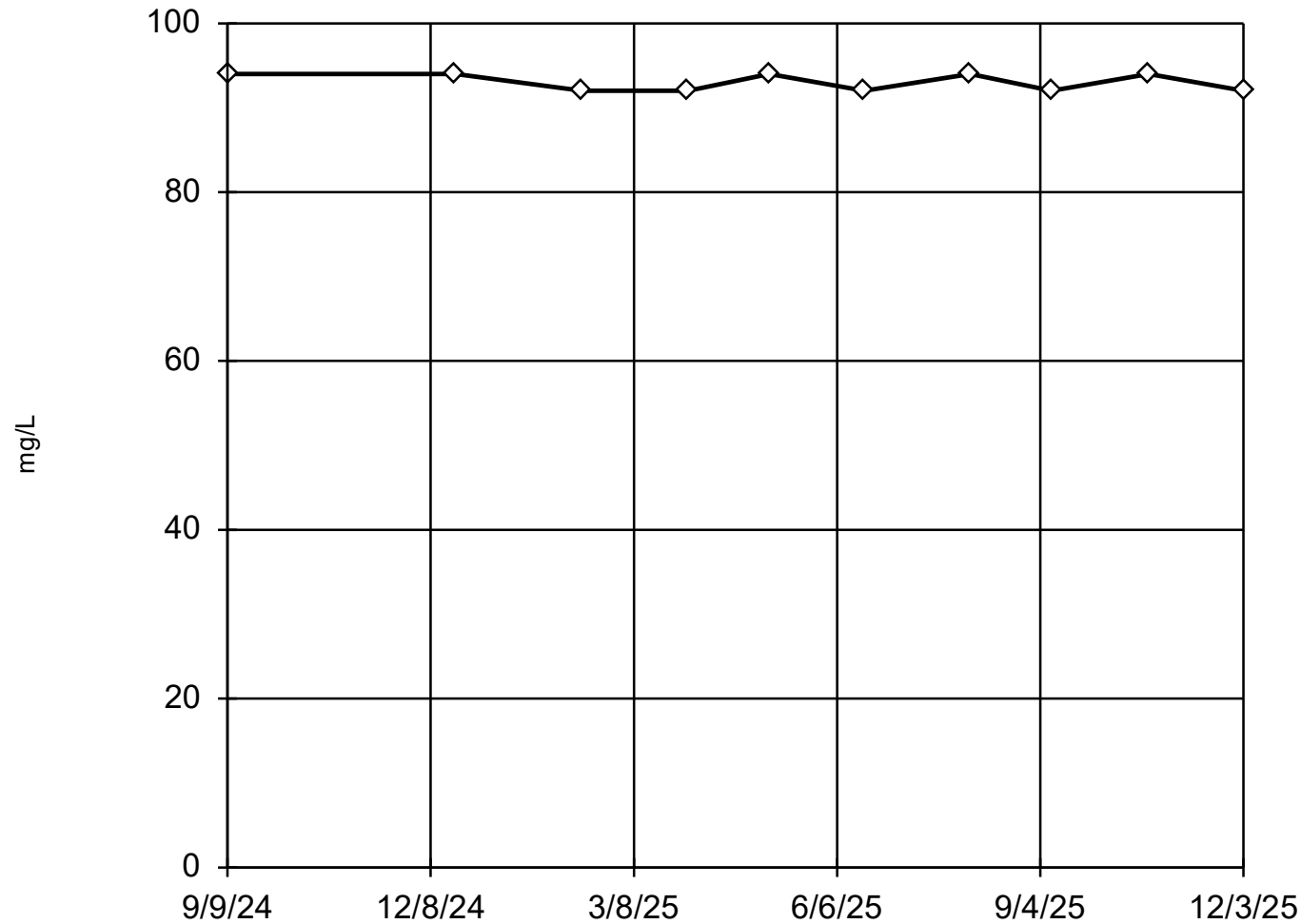
High cutoff = 110.2, low cutoff = -61.62, based on IQR multiplier of 3.

Constituent: Alkalinity, Total Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-8D



n = 10

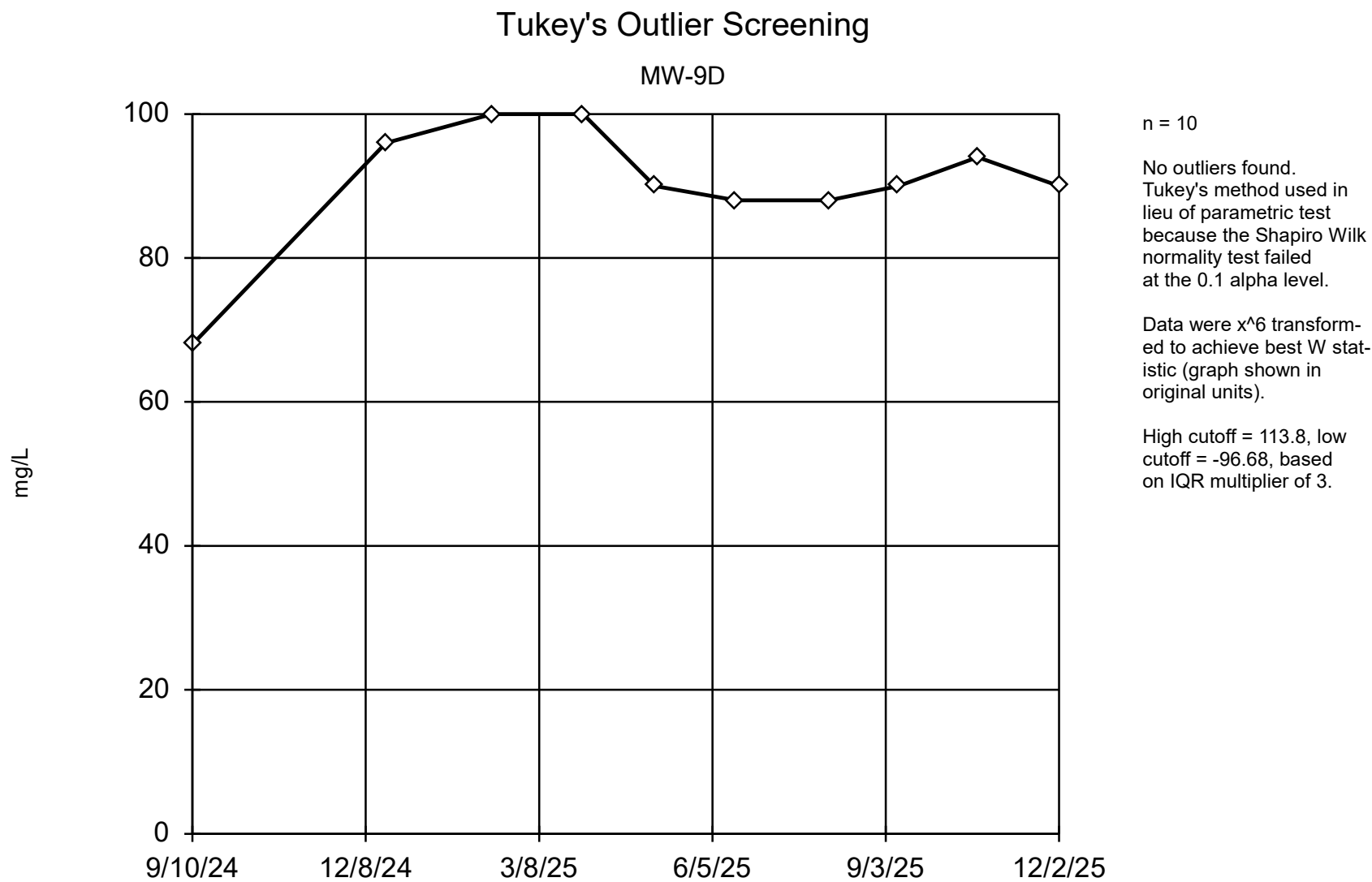
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 100.2, low cutoff = 86.17, based on IQR multiplier of 3.

Constituent: Alkalinity, Total Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

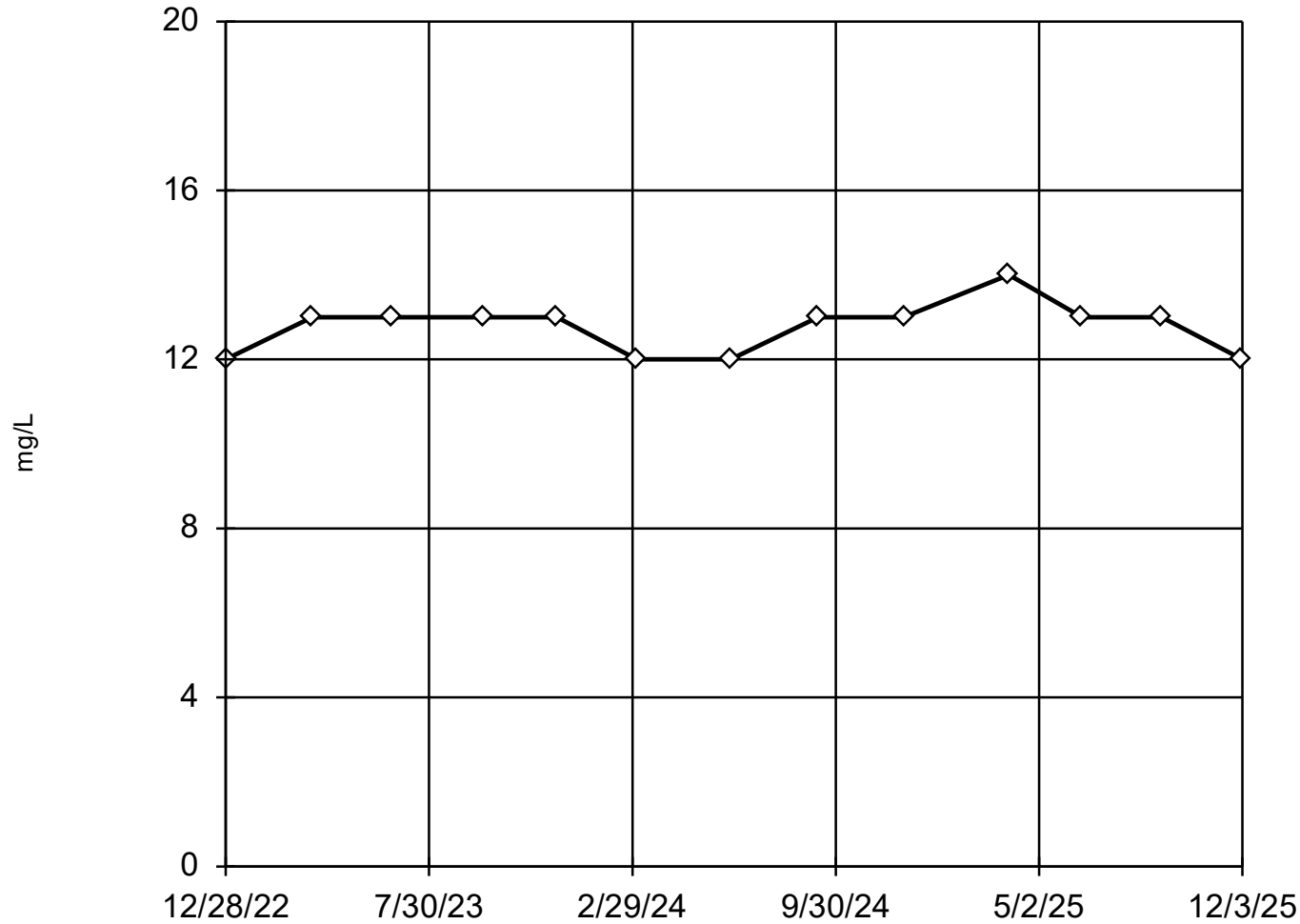


Constituent: Alkalinity, Total Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-2S



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

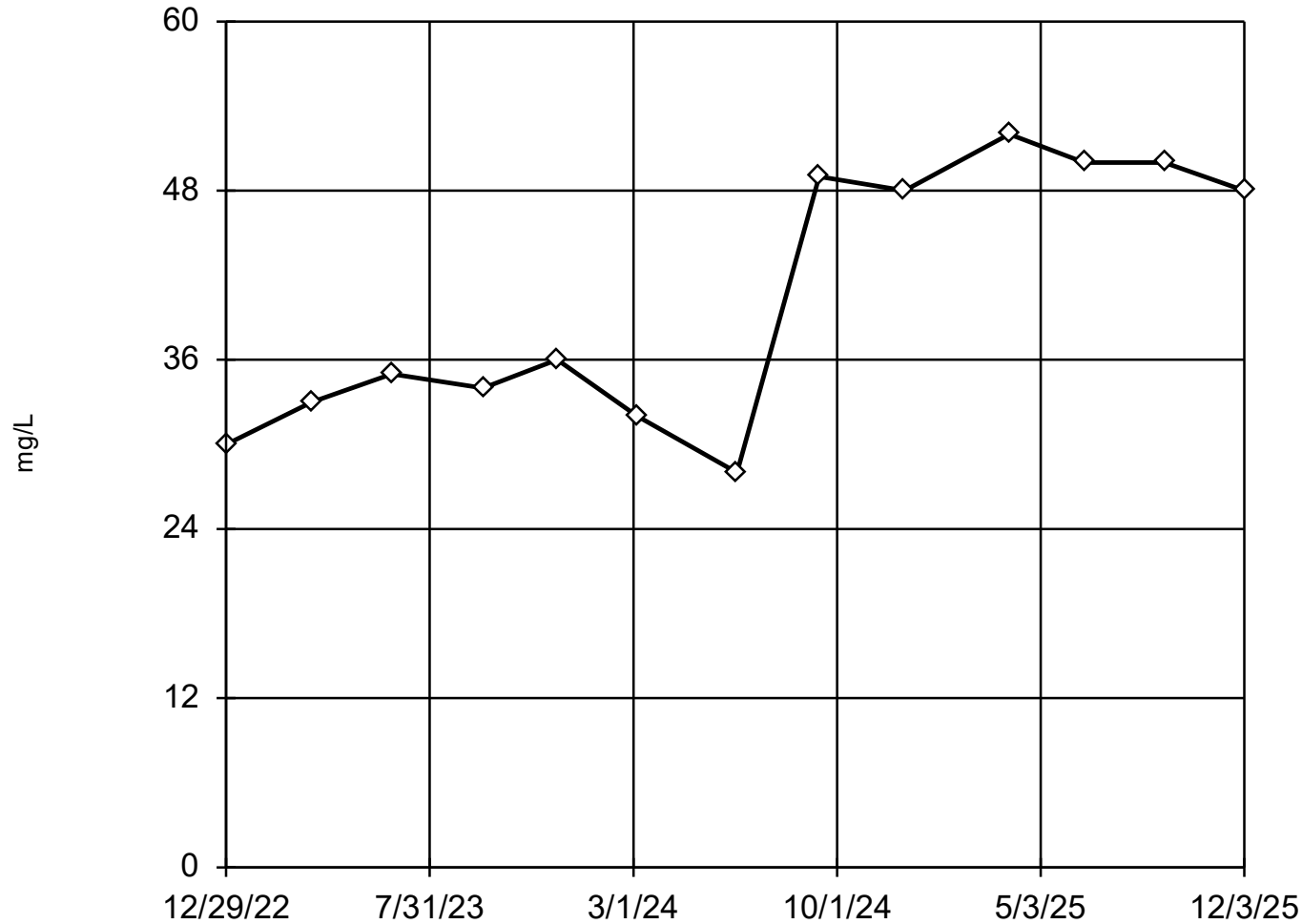
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 15.62, low cutoff = 8.307, based on IQR multiplier of 3.

Constituent: Calcium, Dissolved Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-3S



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

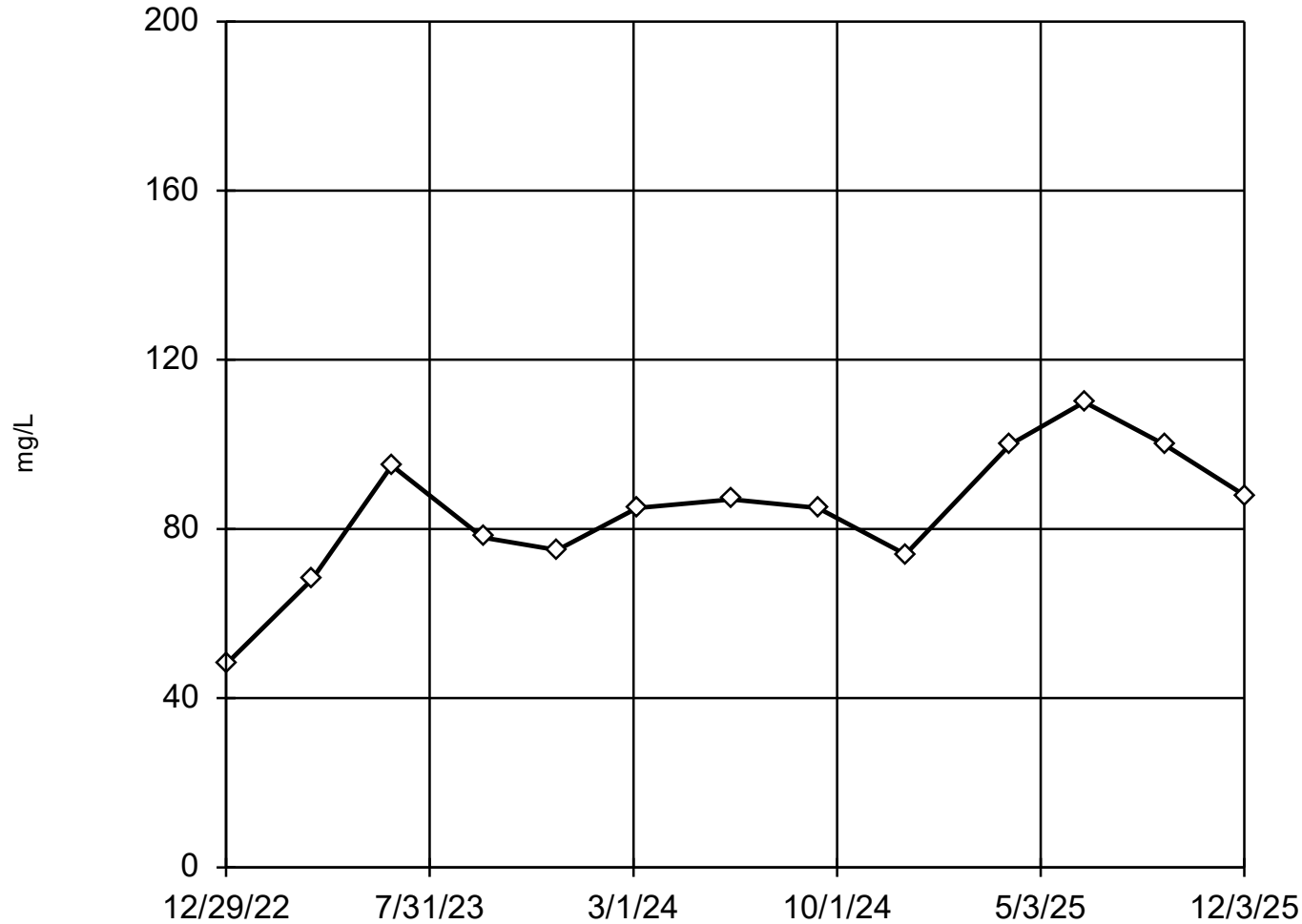
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 174.9, low cutoff = 9.196, based on IQR multiplier of 3.

Constituent: Calcium, Dissolved Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-4S



n = 13

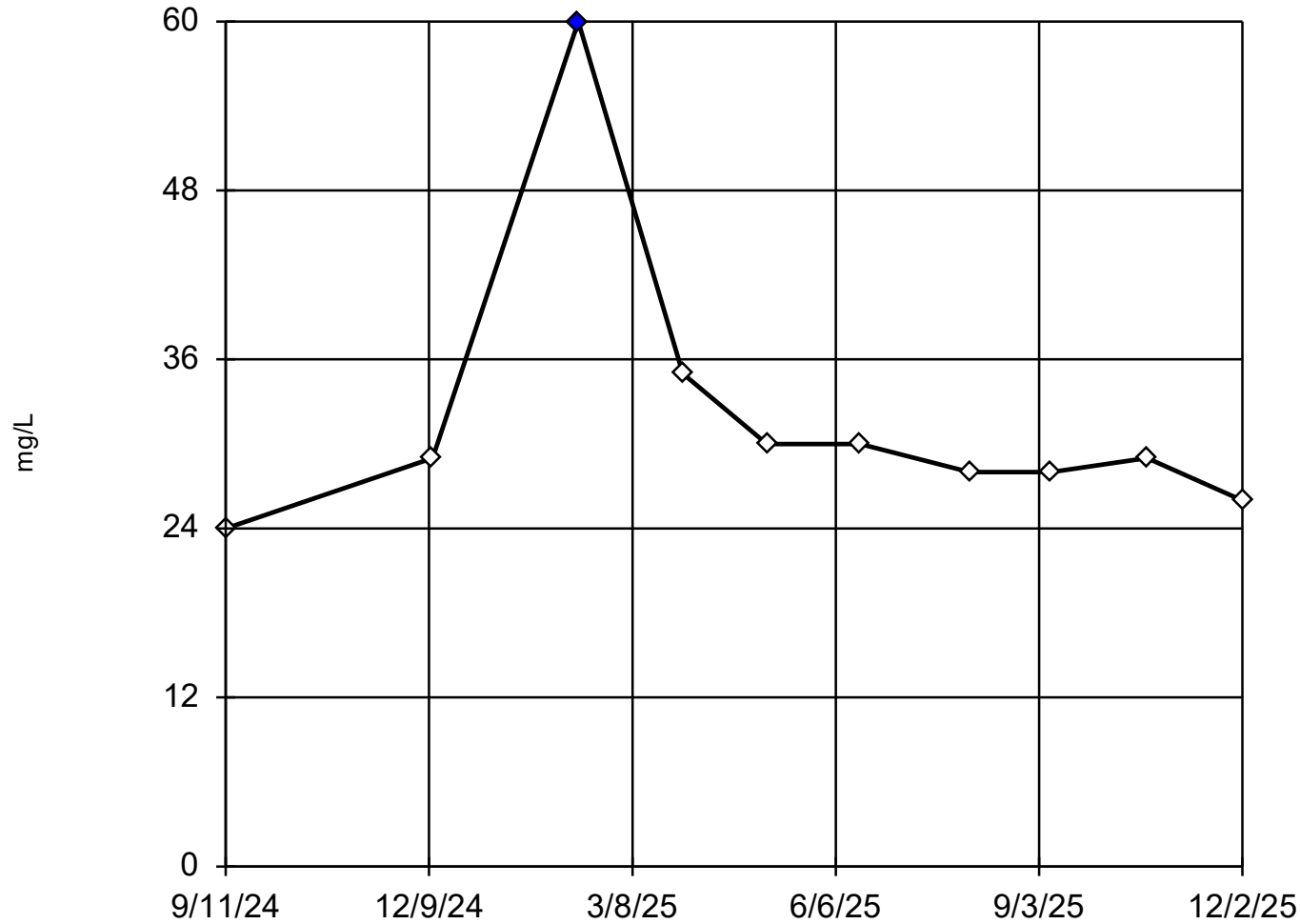
No statistical outliers.
Testing for 1 low outlier.
Mean = 84.08.
Std. Dev. = 16.09.
48: c = 0.5
tab1 = 0.521.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9697
Critical = 0.883
The distribution was found
to be normally distrib-
uted.

Constituent: Calcium, Dissolved Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-5S



n = 10

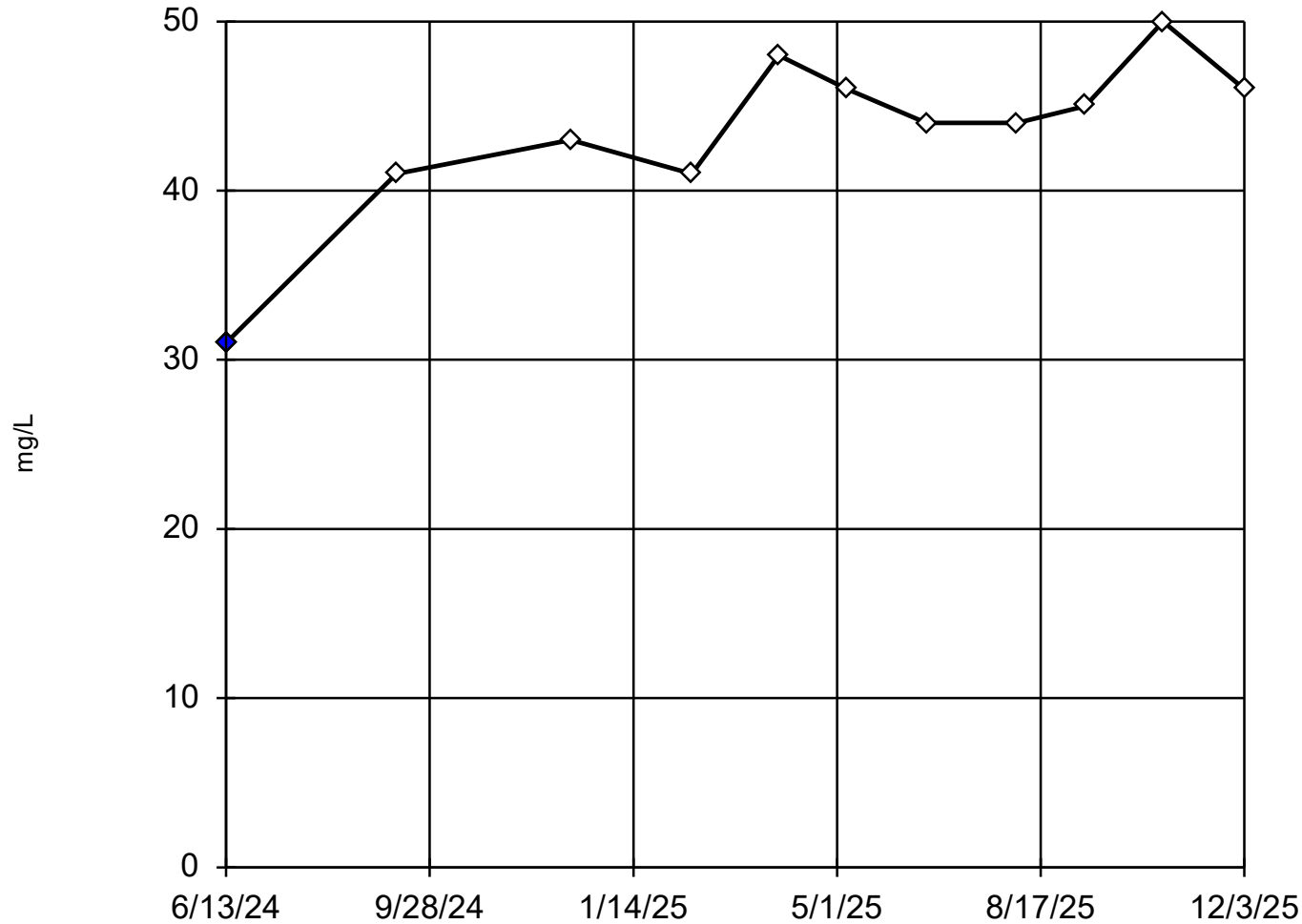
Statistical outlier is drawn as solid.
1 value manually flagged as an outlier.
Testing for 1 high outlier.
Mean = 31.9.
Std. Dev. = 10.28.
60 (o): c = 0.7353
tab1 = 0.477.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9285
Critical = 0.859
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Calcium, Dissolved Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-6S



n = 11

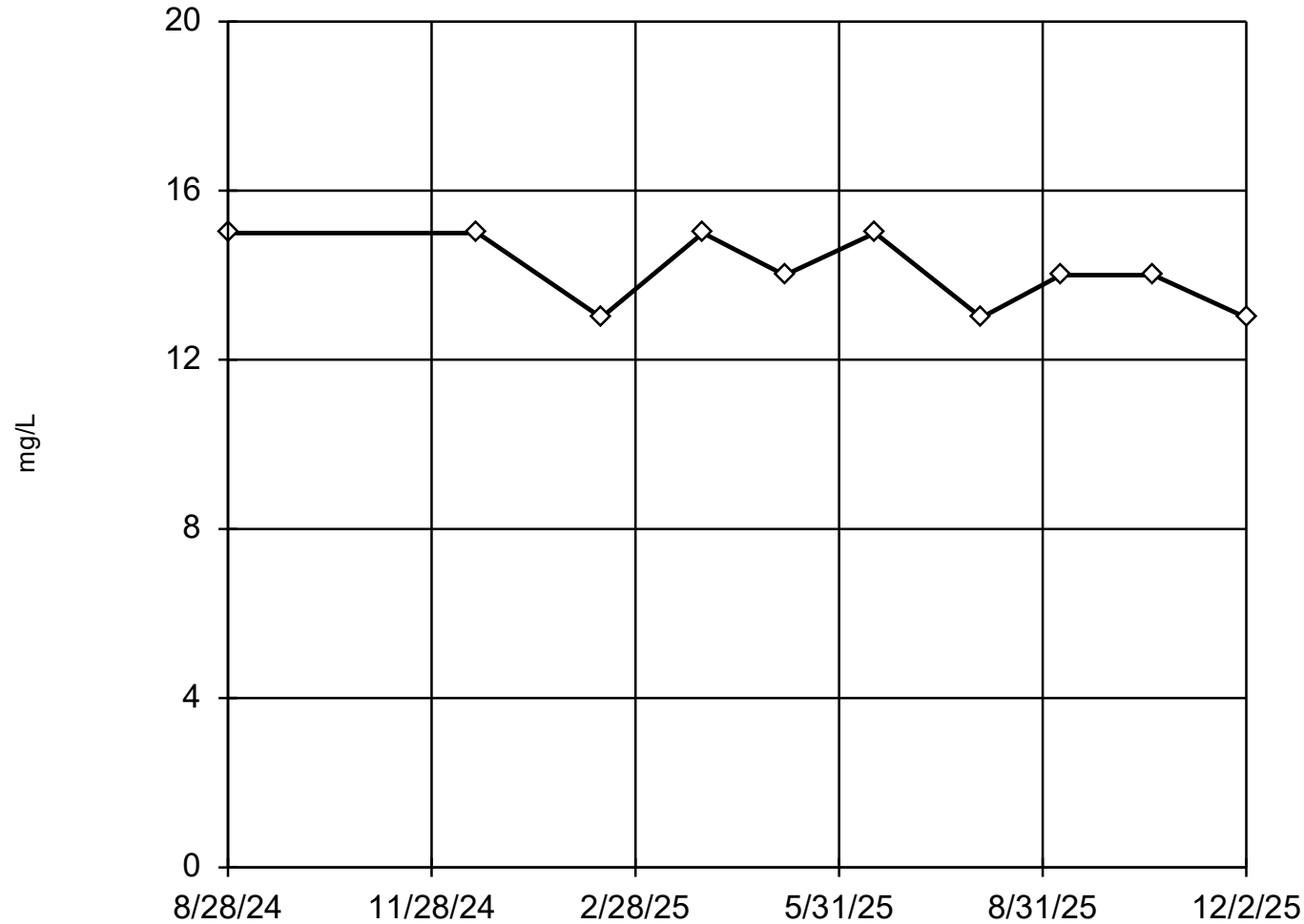
Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 43.55.
Std. Dev. = 4.967.
31 (z): c = 0.5882
tab1 = 0.576.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9577
Critical = 0.869
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Calcium, Dissolved Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-7D



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

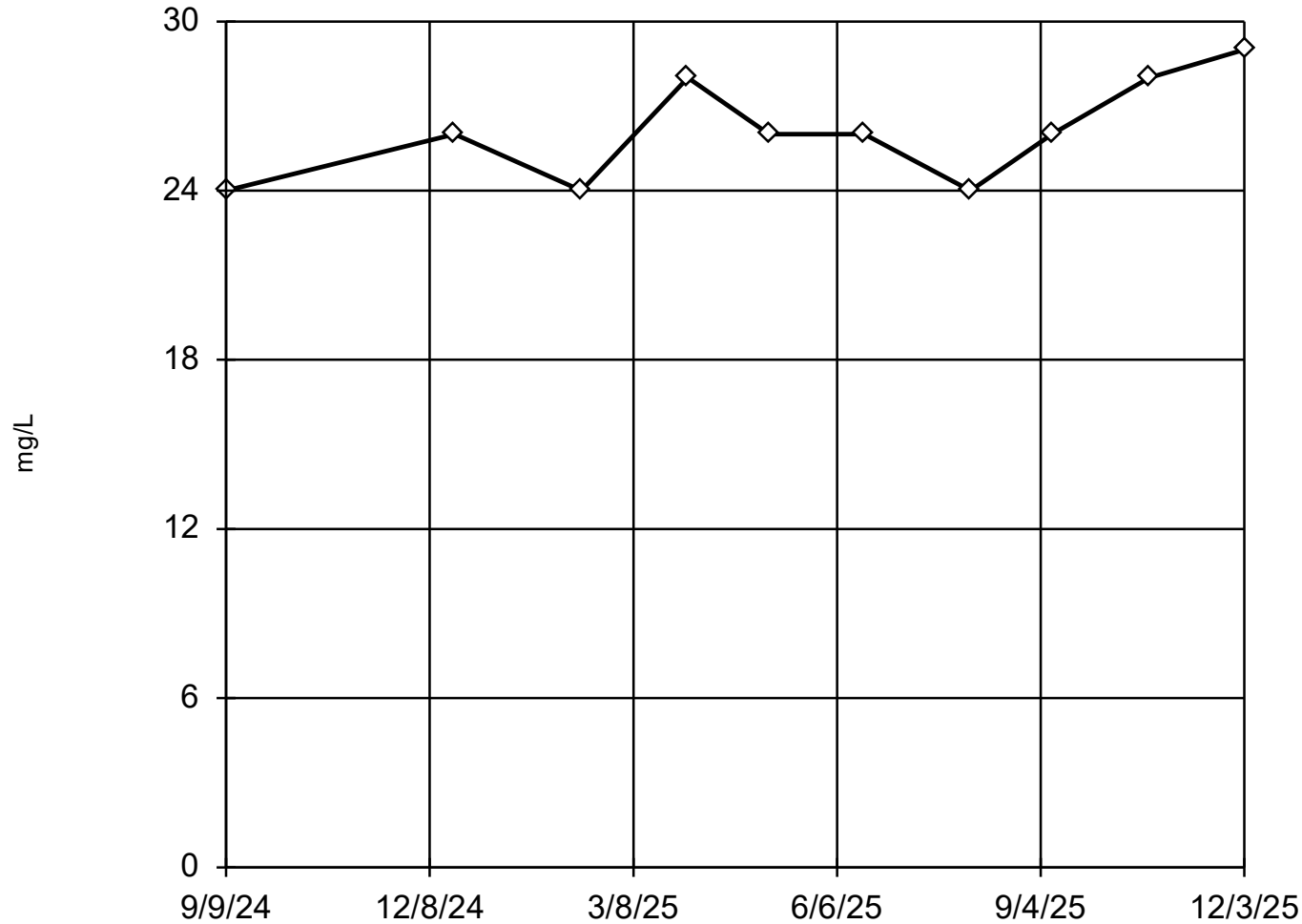
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 19.82, low cutoff = 1, based on IQR multiplier of 3.

Constituent: Calcium, Dissolved Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-8D



n = 10

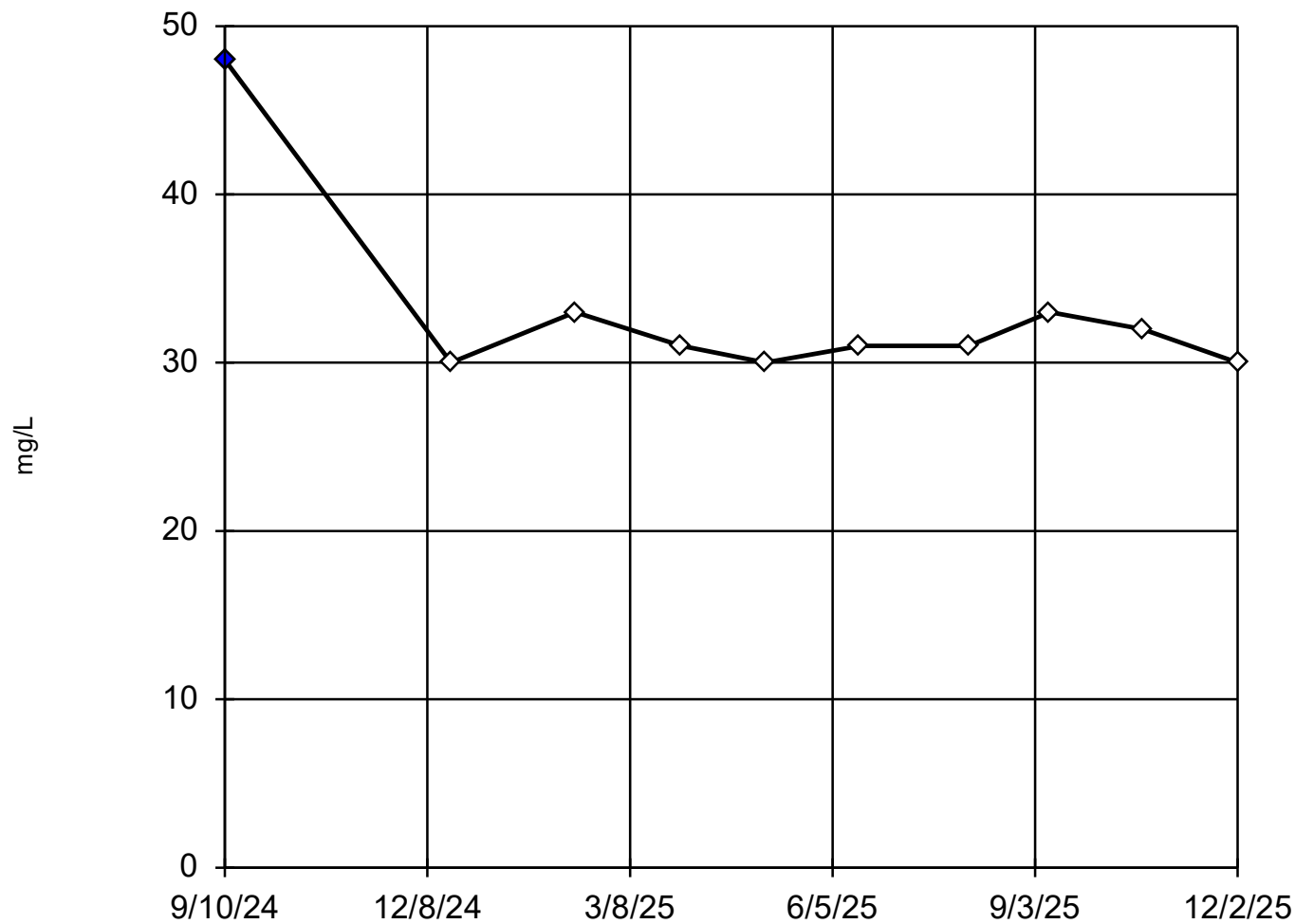
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 26.1, std. dev. 1.792, critical Tn 2.176

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8798
Critical = 0.869
The distribution was found to be normally distributed.

Constituent: Calcium, Dissolved Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-9D



n = 10

Outlier is drawn as solid. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

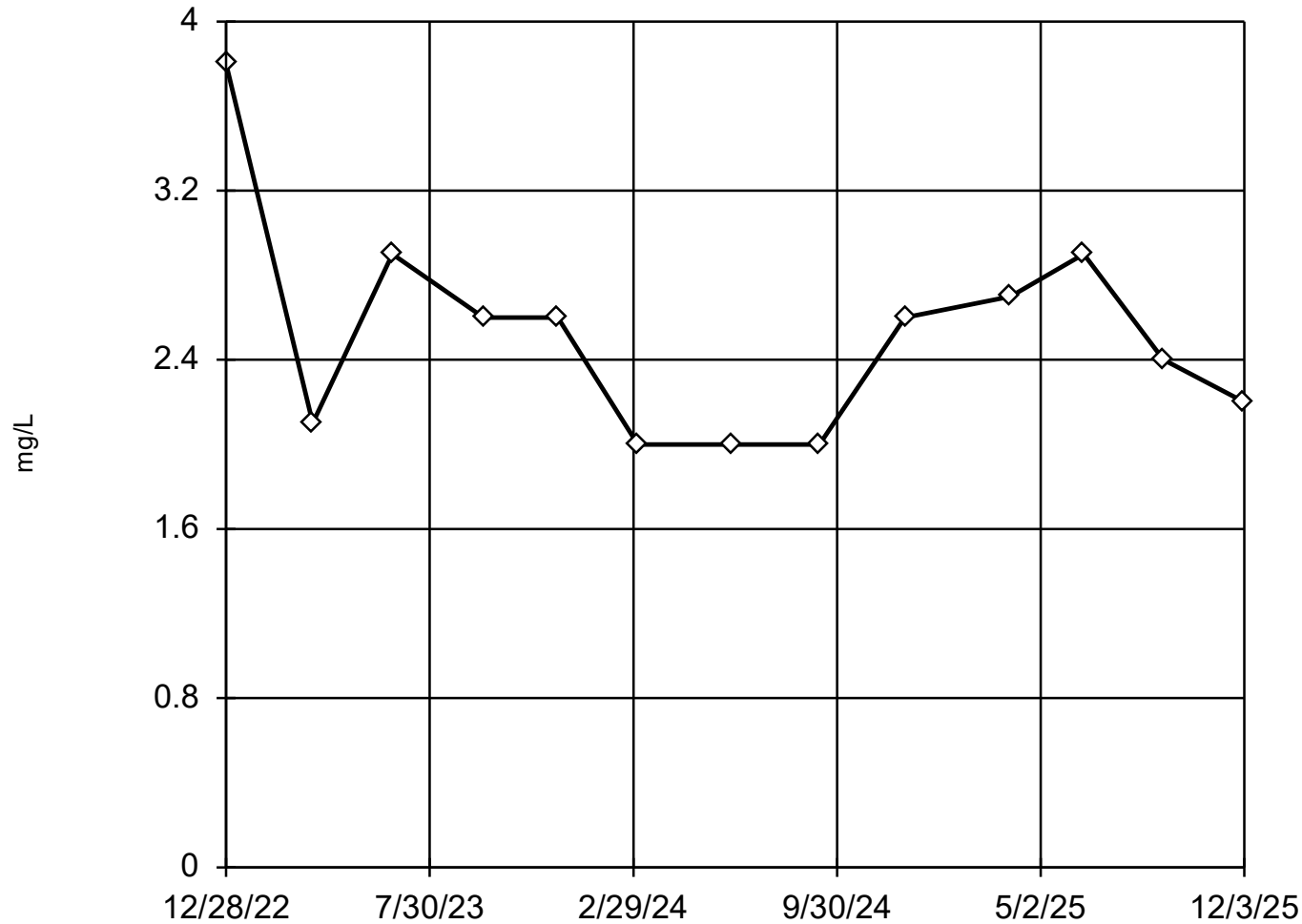
High cutoff = 43.92, low cutoff = 22.54, based on IQR multiplier of 3.

Constituent: Calcium, Dissolved Analysis Run 3/25/2026 10:57 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-2S



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.523, std. dev. 0.5069, critical Tn 2.331

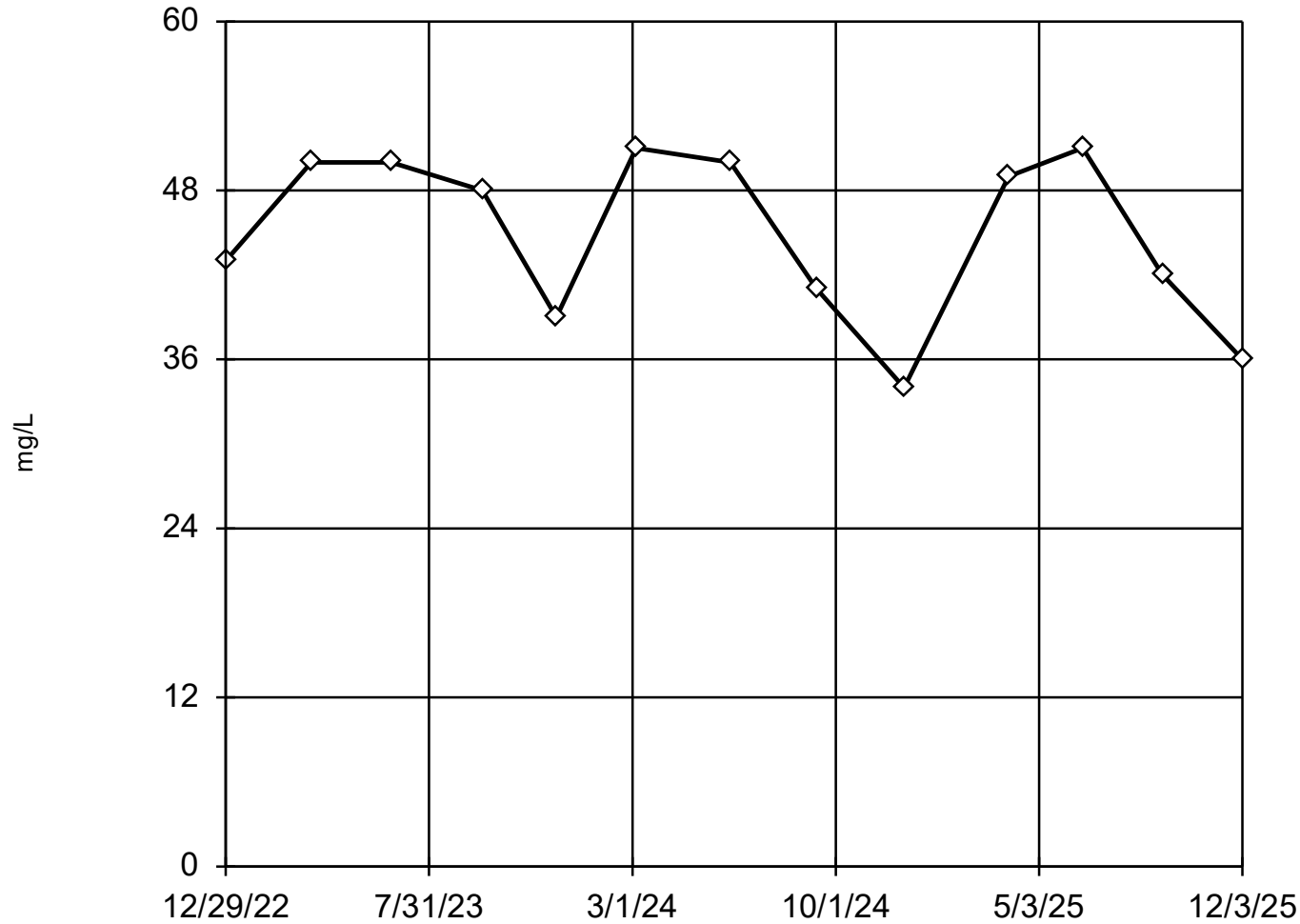
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9083
Critical = 0.889 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-4S



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube transformed to achieve best W statistic (graph shown in original units).

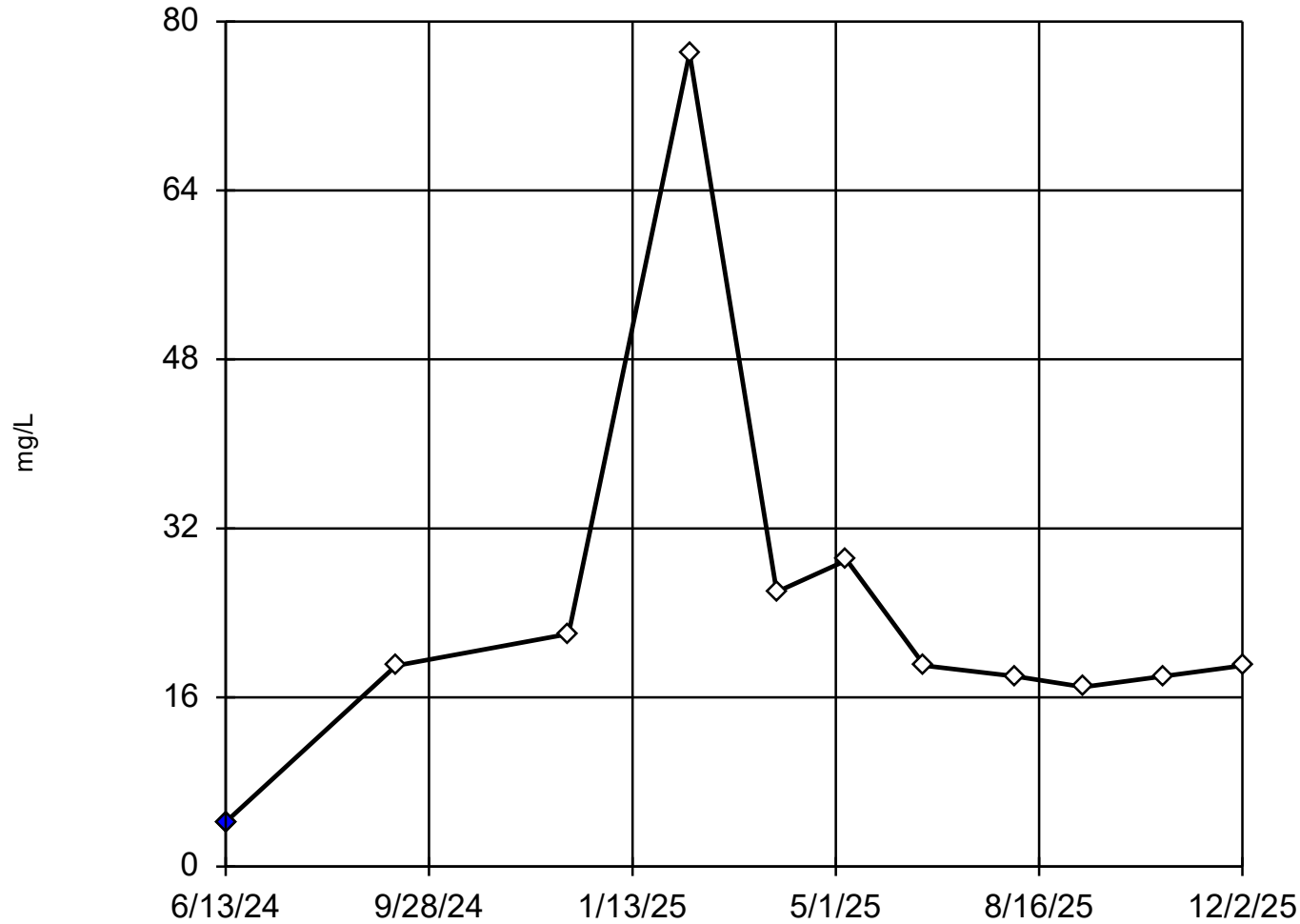
High cutoff = 67.51, low cutoff = -49.12, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-5S



n = 11

Outlier is drawn as solid. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

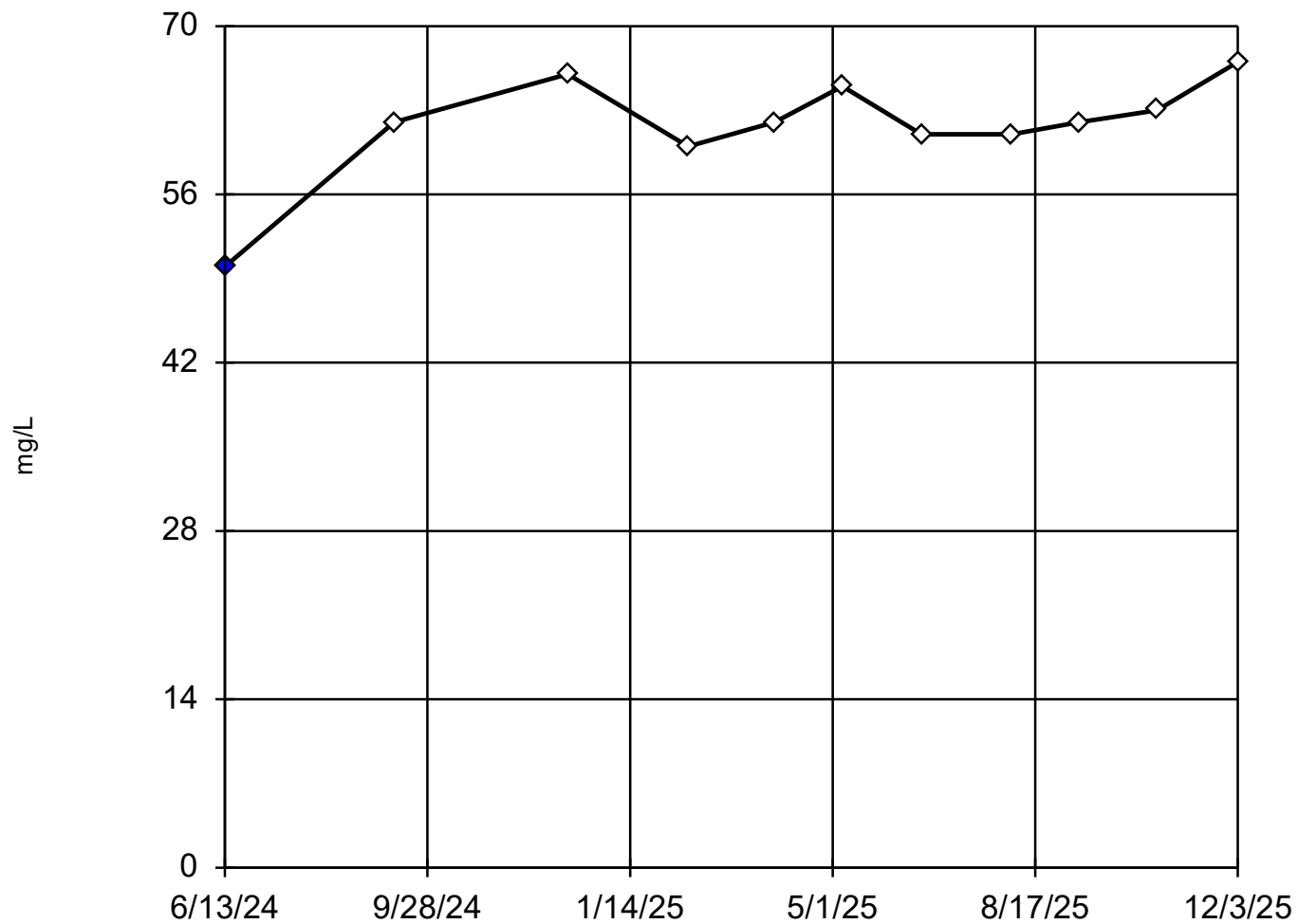
High cutoff = 78.36, low cutoff = 5.973, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-6S



n = 11

Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 61.73.
Std. Dev. = 4.474.
50 (z): c = 0.6875
tabl = 0.576.
Alpha = 0.05.

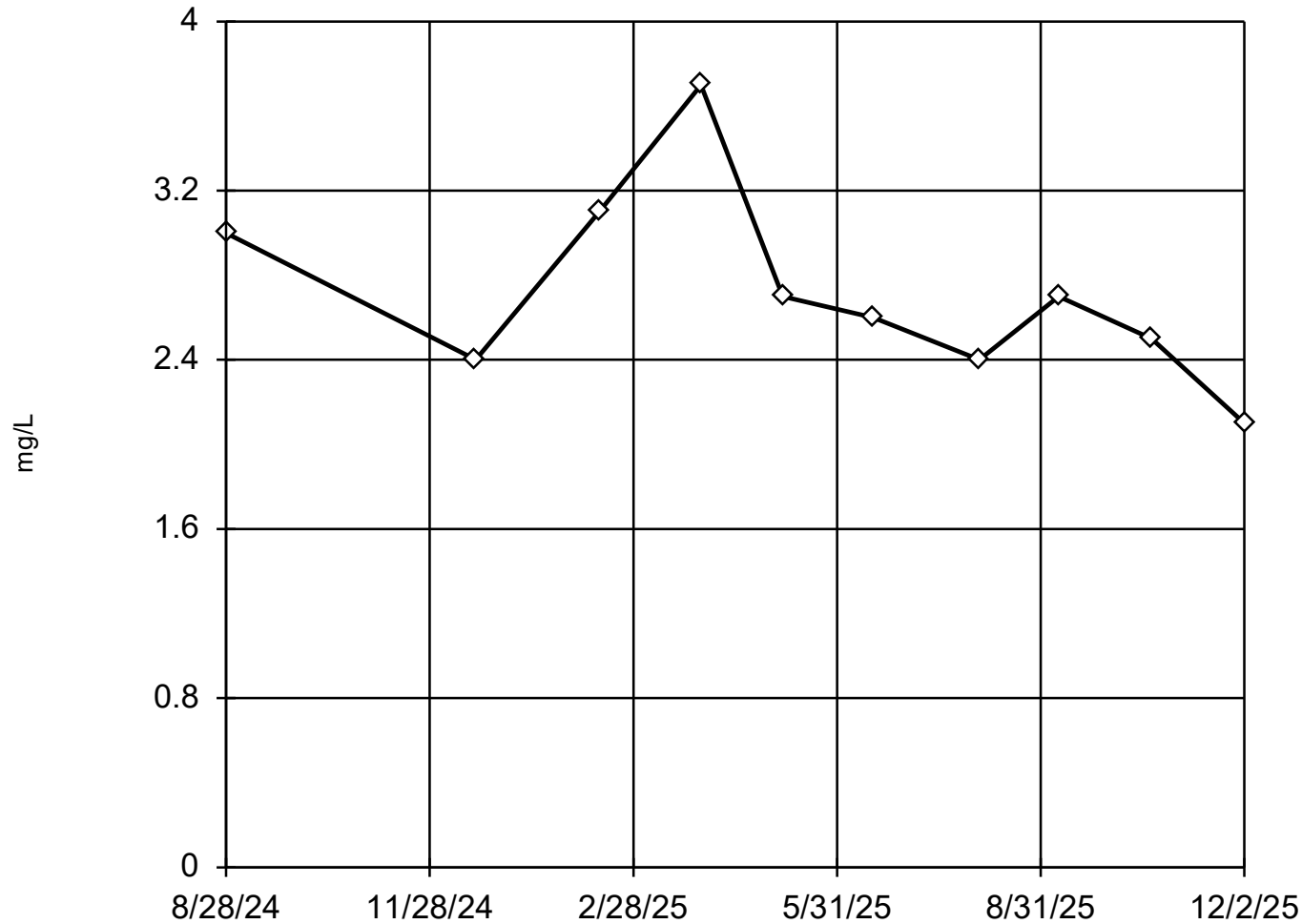
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9021
Critical = 0.869
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Chloride Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-7D



n = 10

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.72, std. dev. 0.4517, critical Tn 2.176

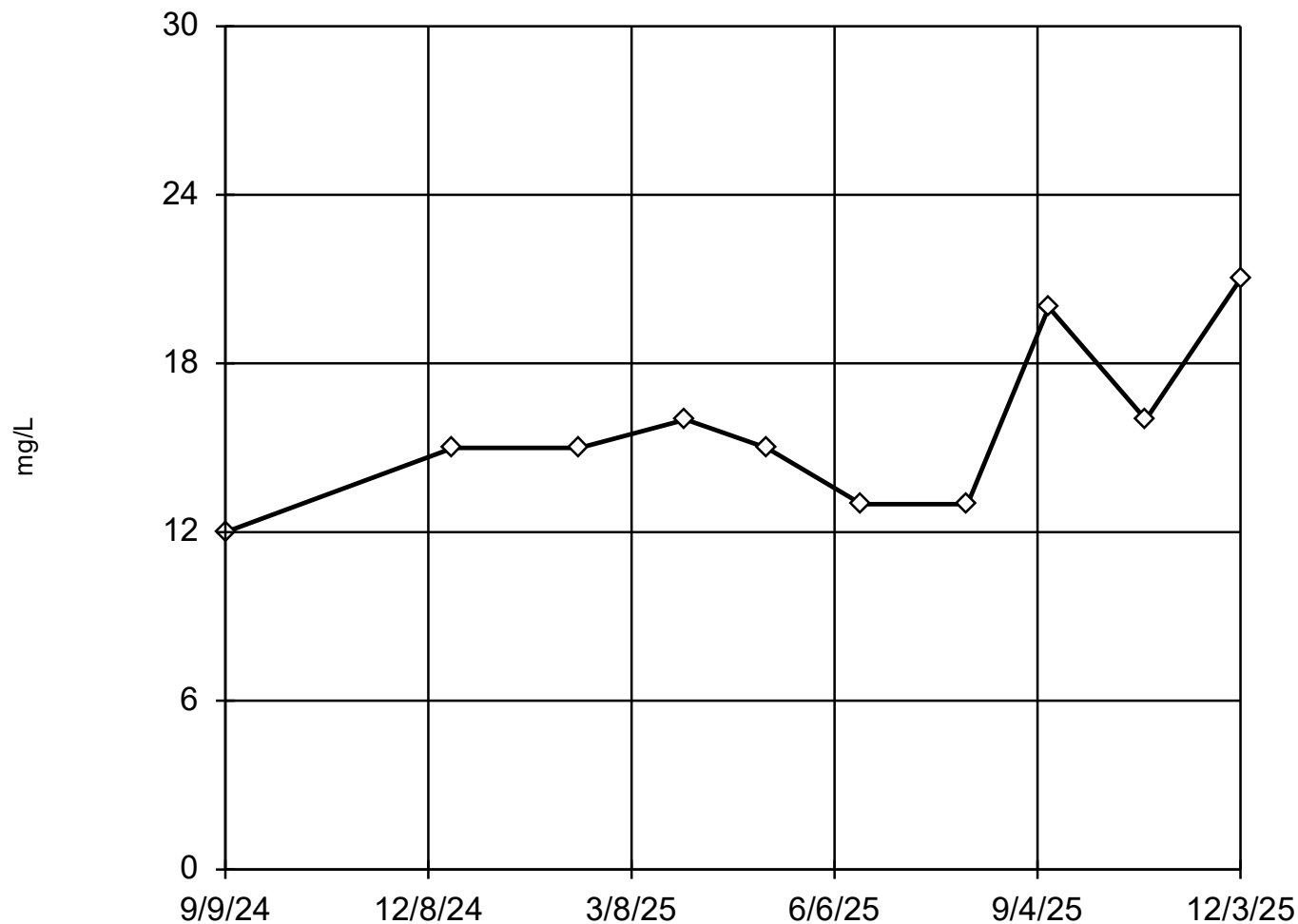
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9283
Critical = 0.869
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-8D



n = 10

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 15.6, std. dev. 2.914, critical Tn 2.176

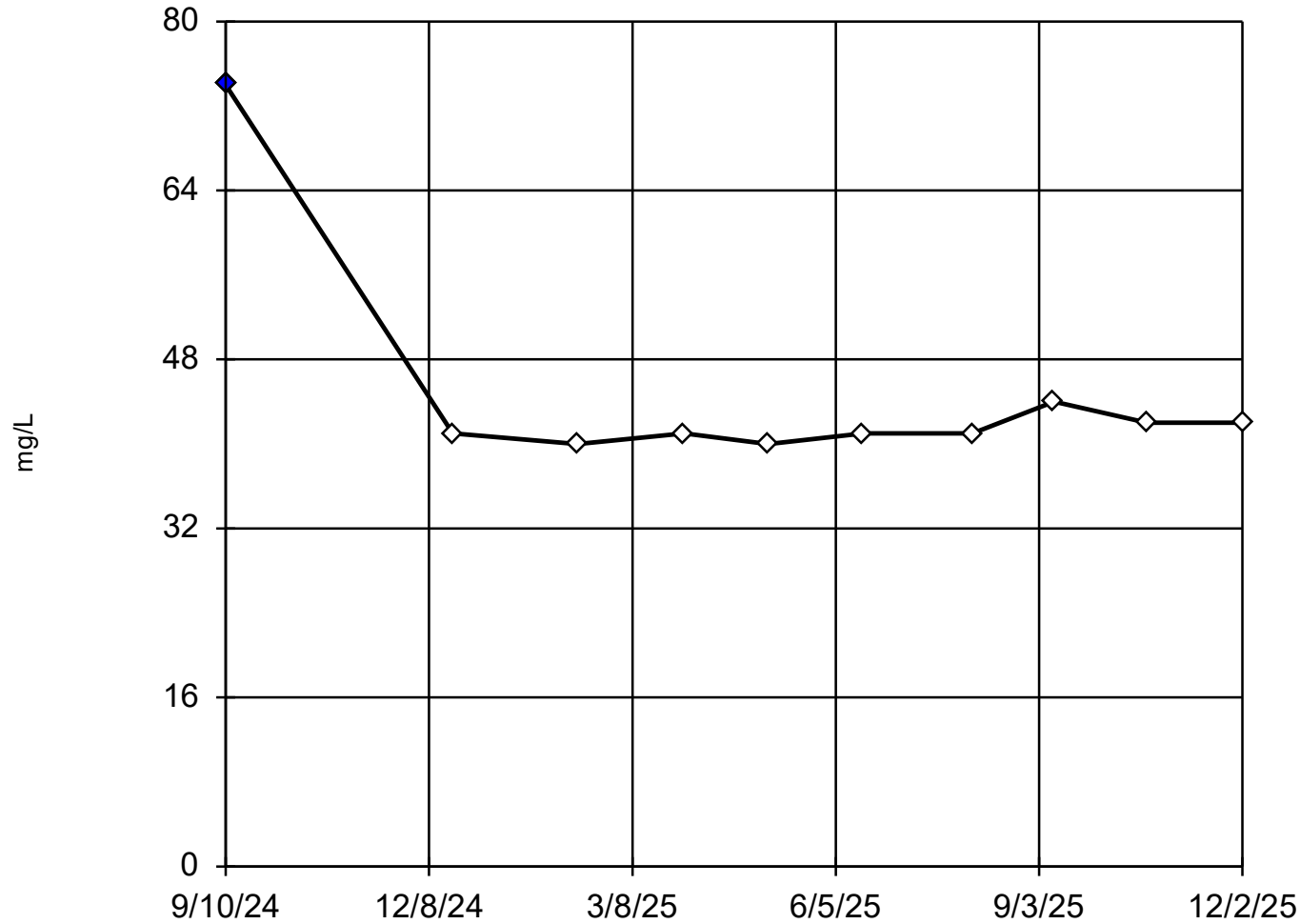
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8873
Critical = 0.869
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-9D



n = 10

Outlier is drawn as solid. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

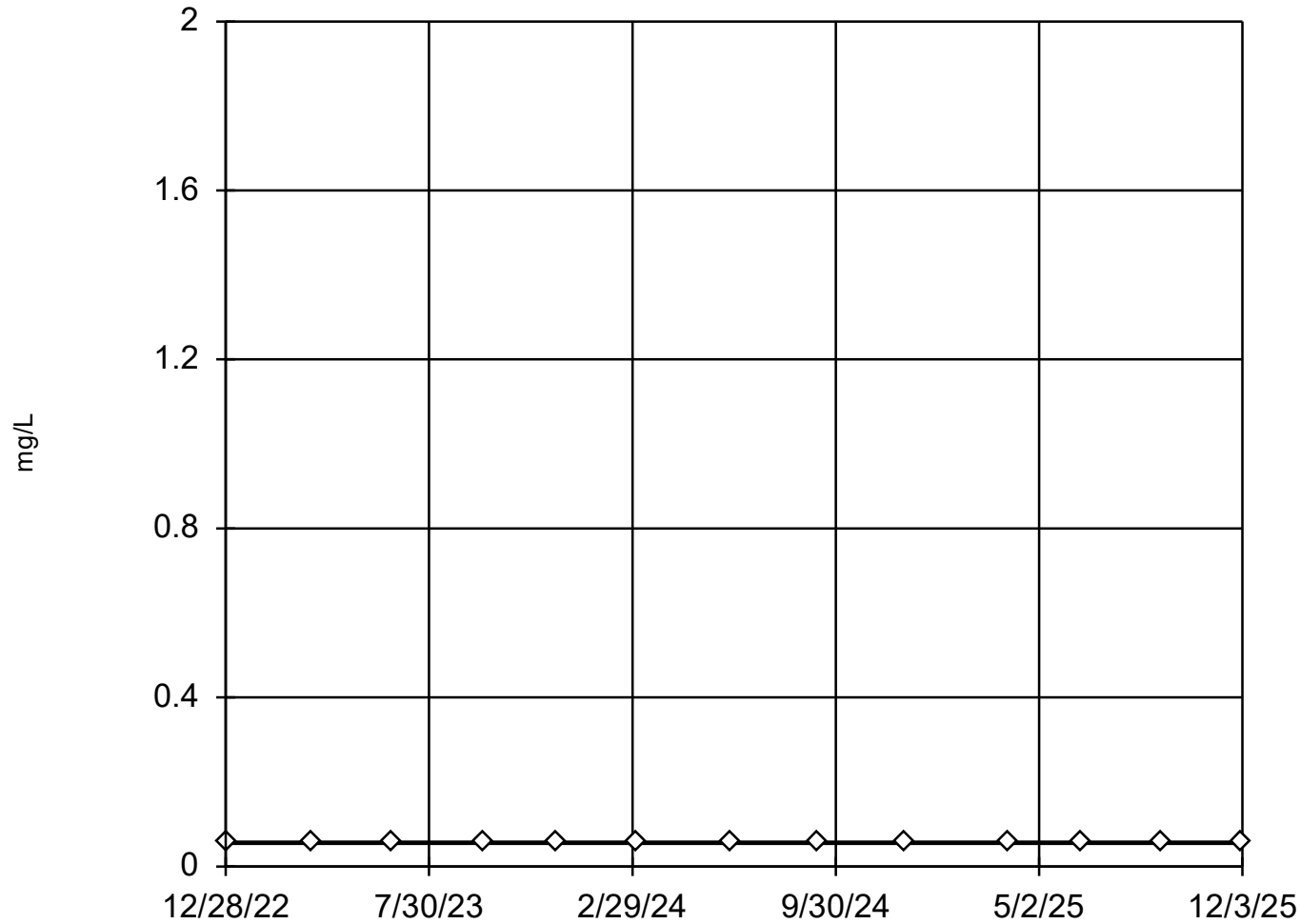
High cutoff = 51.42, low cutoff = 33.86, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-2S



n = 13

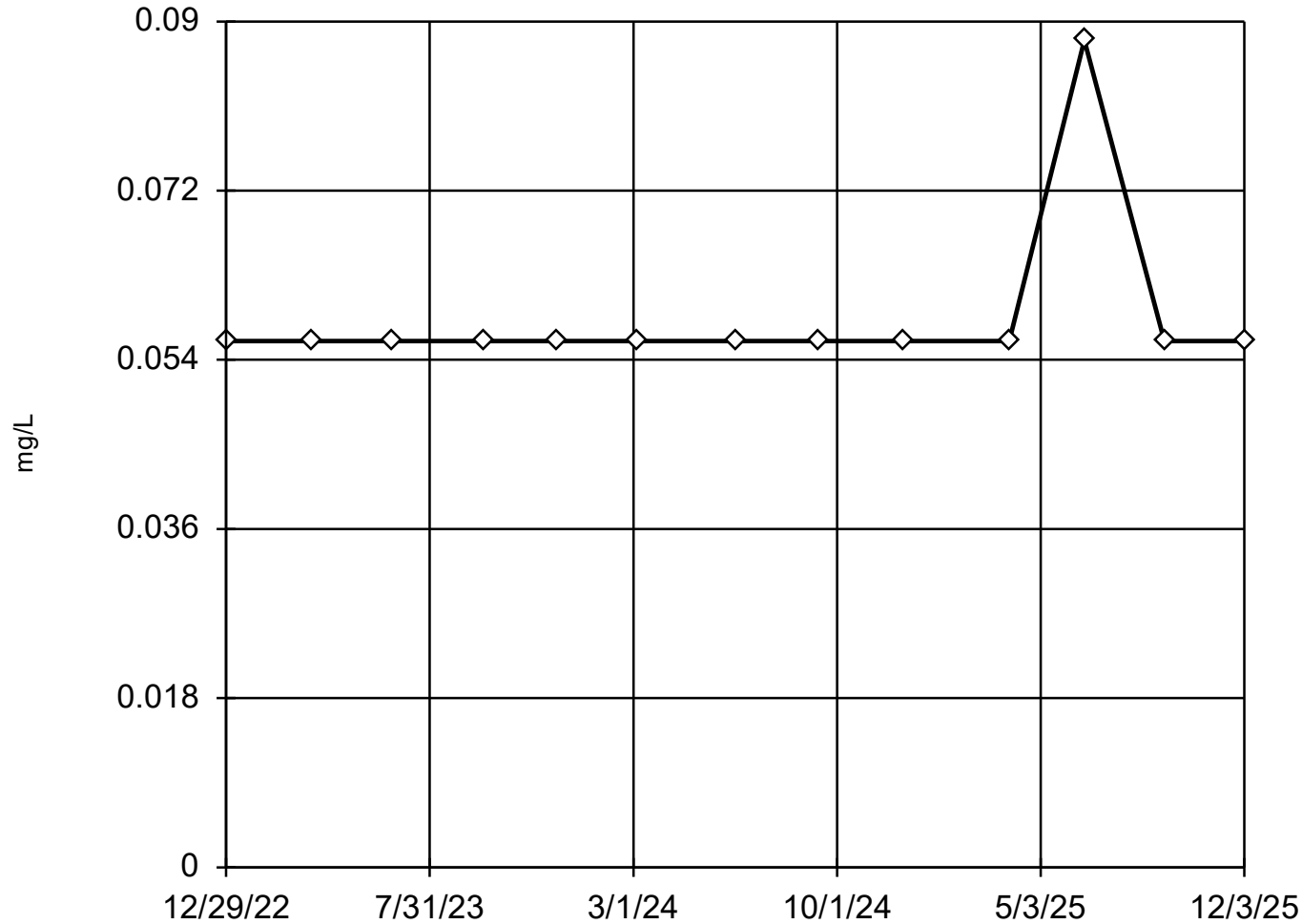
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

All values are the same.

Constituent: Iron, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-3S



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were square transformed to achieve best W statistic (graph shown in original units).

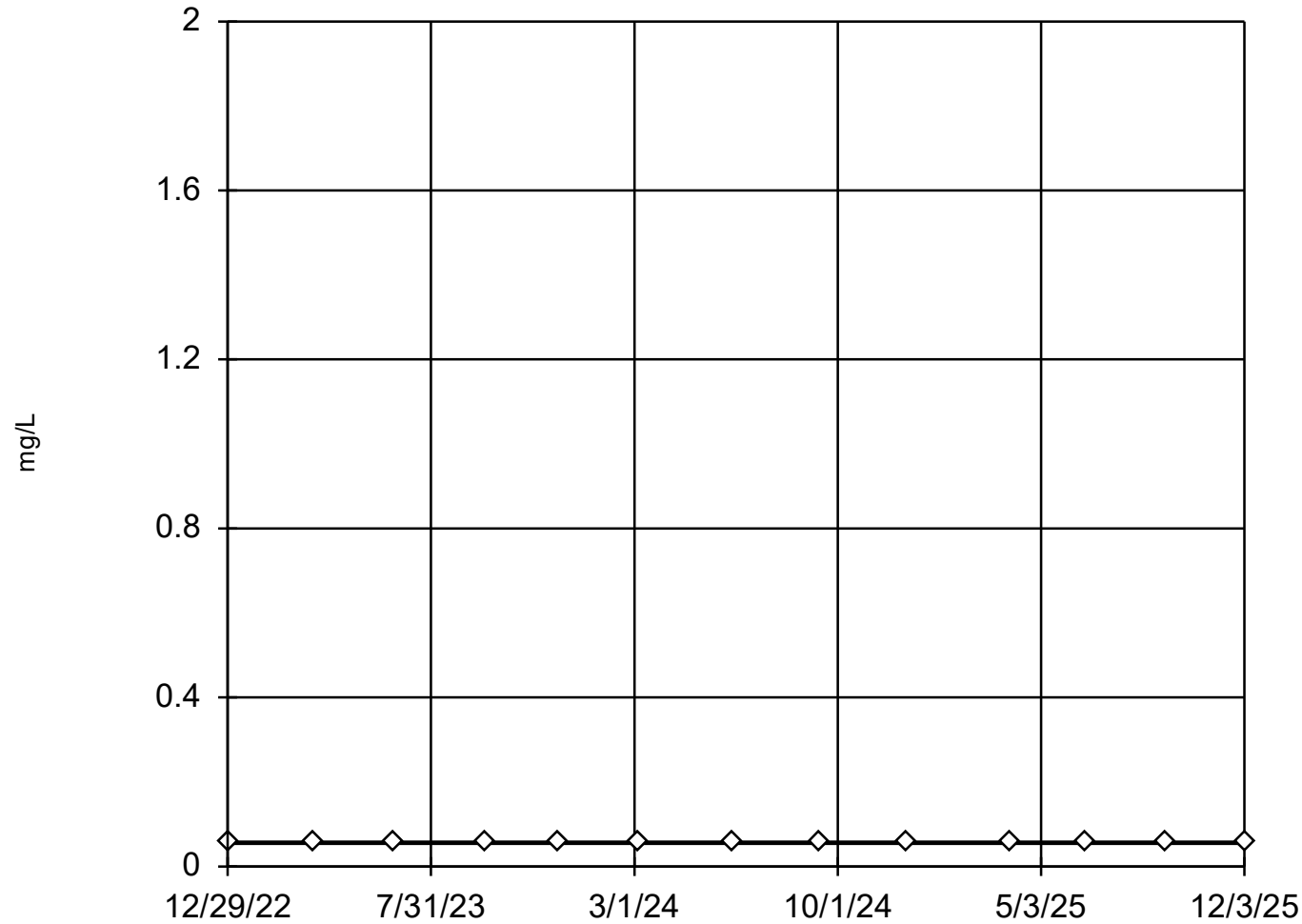
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Iron, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-4S



n = 13

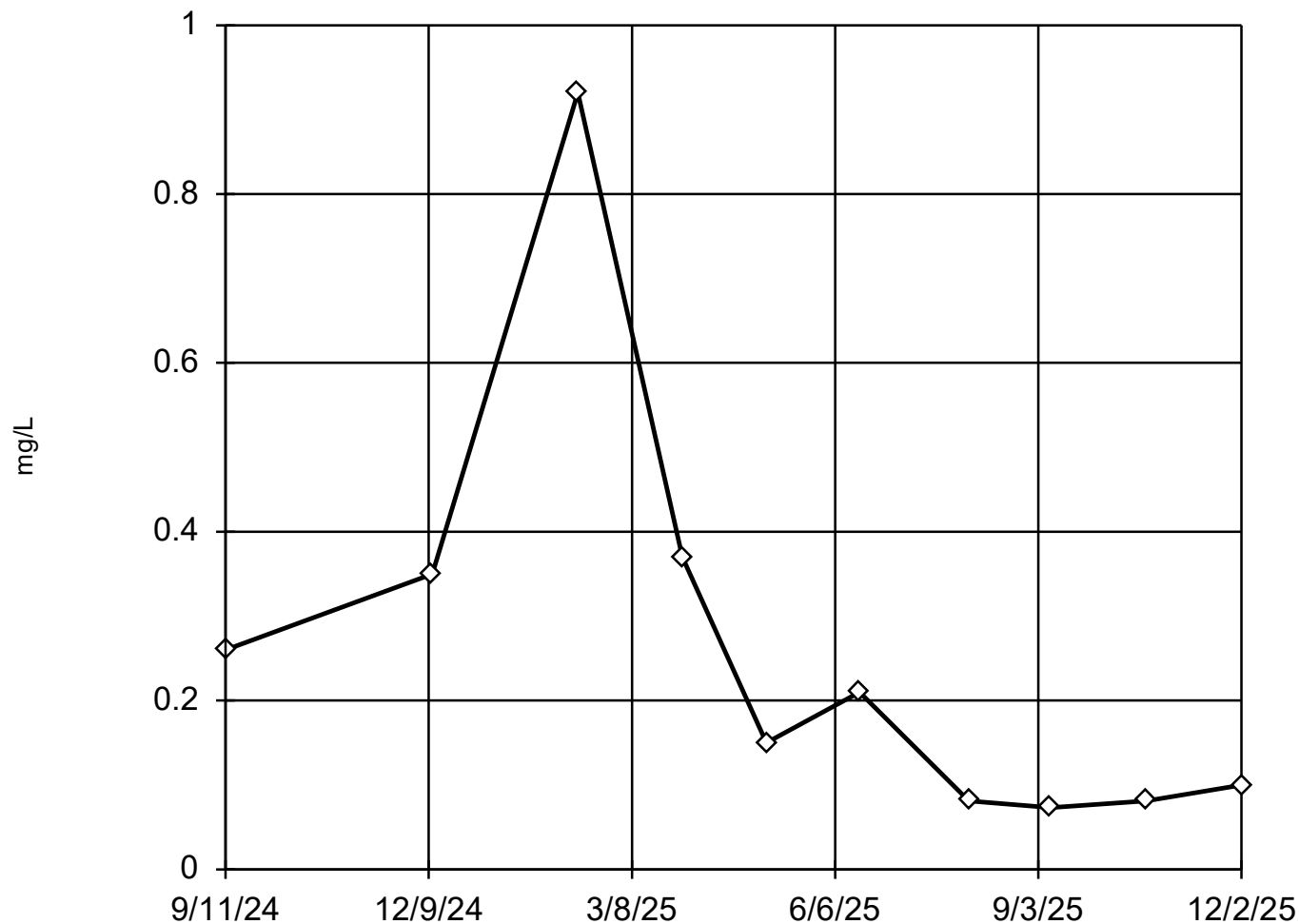
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

All values are the same.

Constituent: Iron, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-5S



n = 10

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
1 value manually flagged as an outlier.
Mean 0.2595, std. dev. 0.2571, critical Tn 2.176

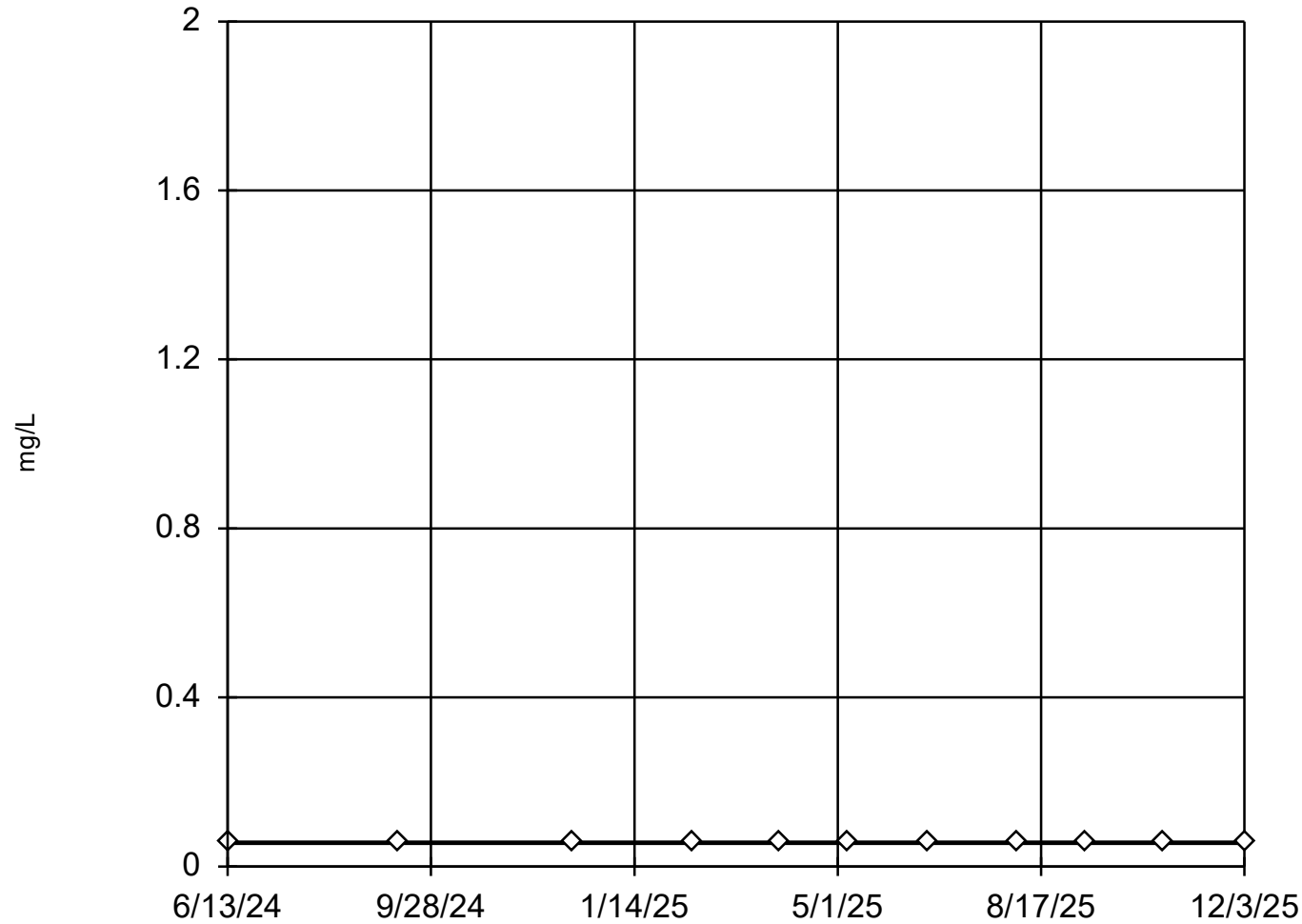
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.921
Critical = 0.869 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Iron, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-6S



n = 11

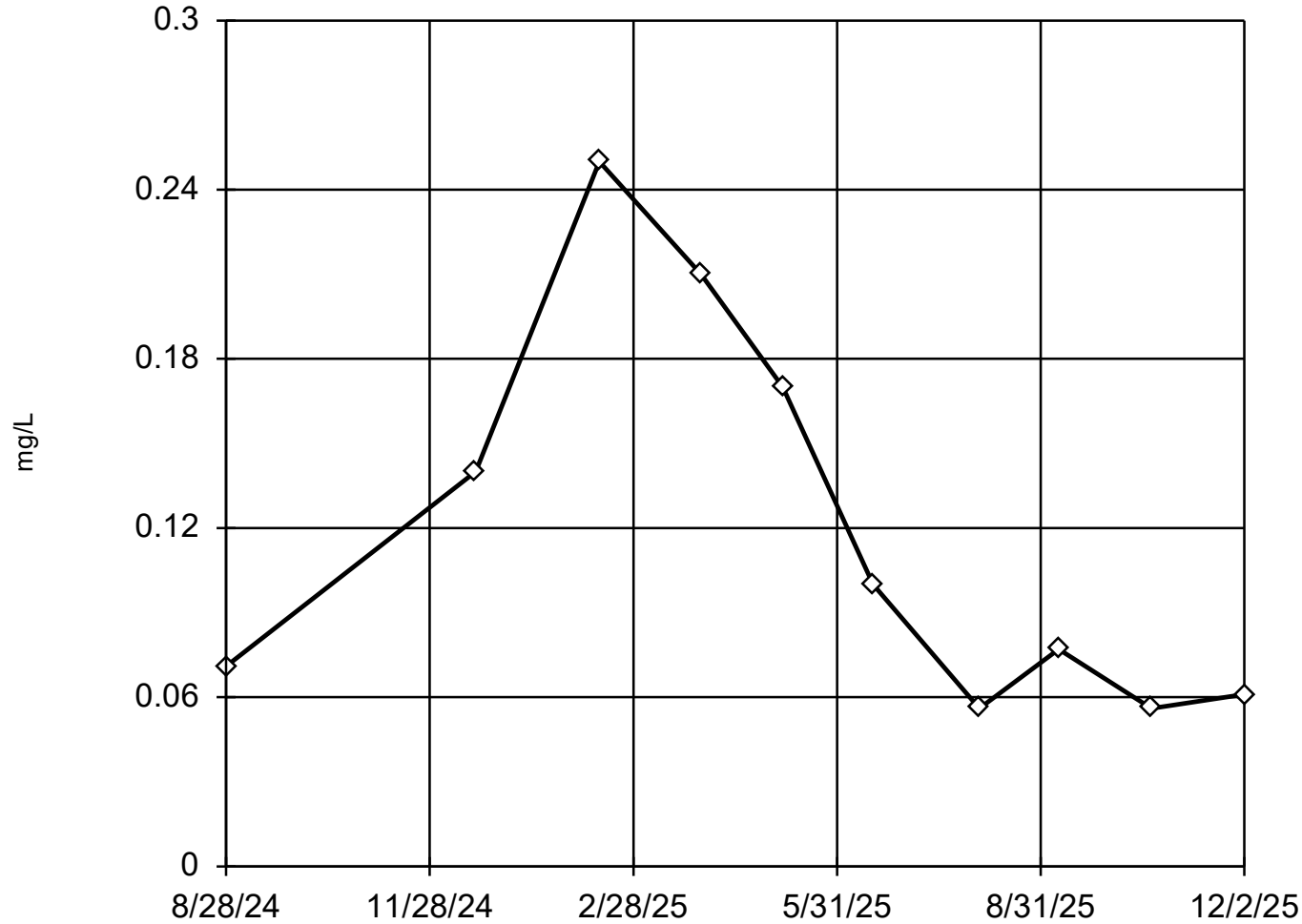
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

All values are the same.

Constituent: Iron, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-7D



n = 10

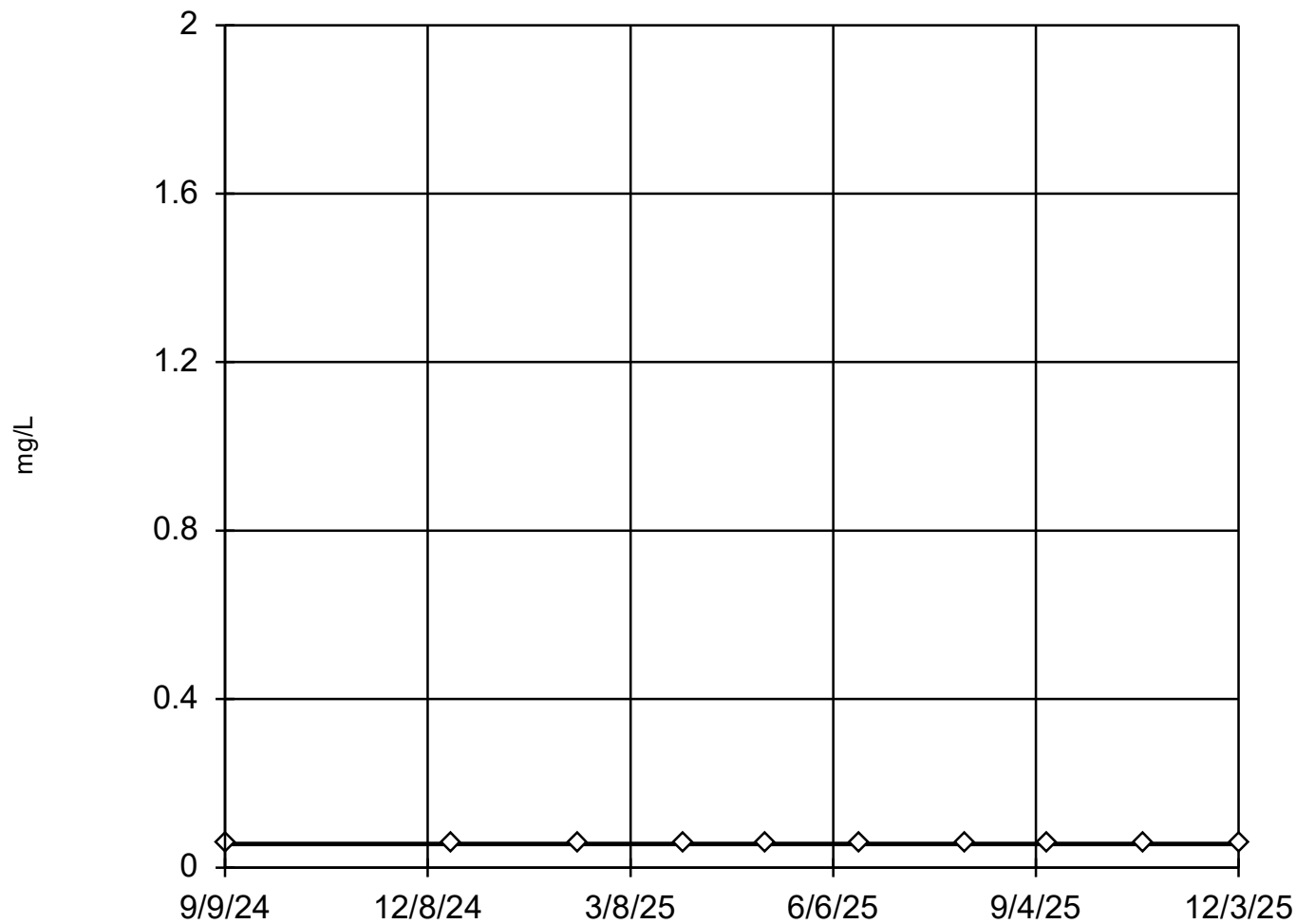
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1191, std. dev. 0.07009, critical Tn 2.176

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8962
Critical = 0.869 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Iron, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-8D



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

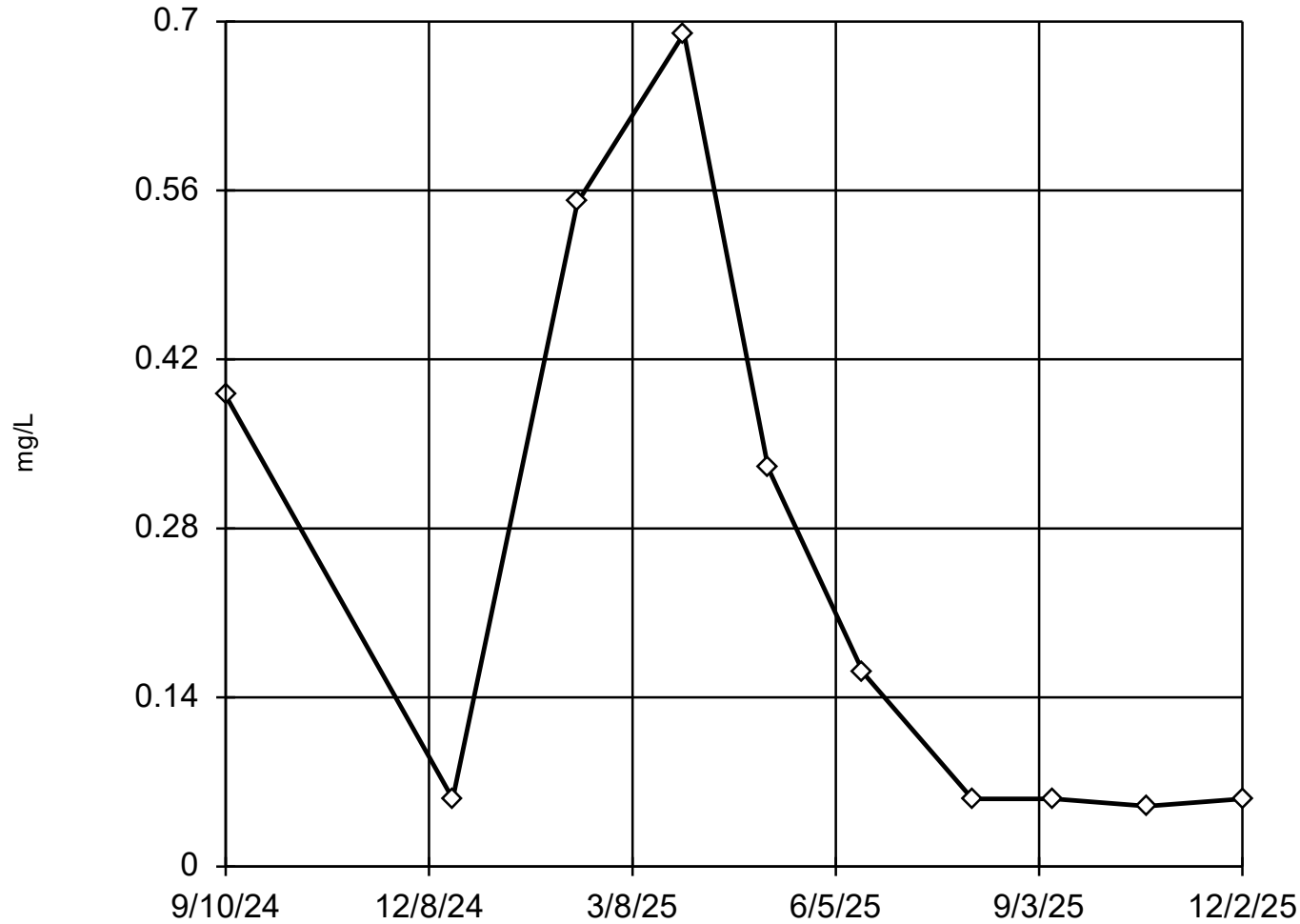
All values are the same.

Constituent: Iron, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-9D



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were square root transformed to achieve best W statistic (graph shown in original units).

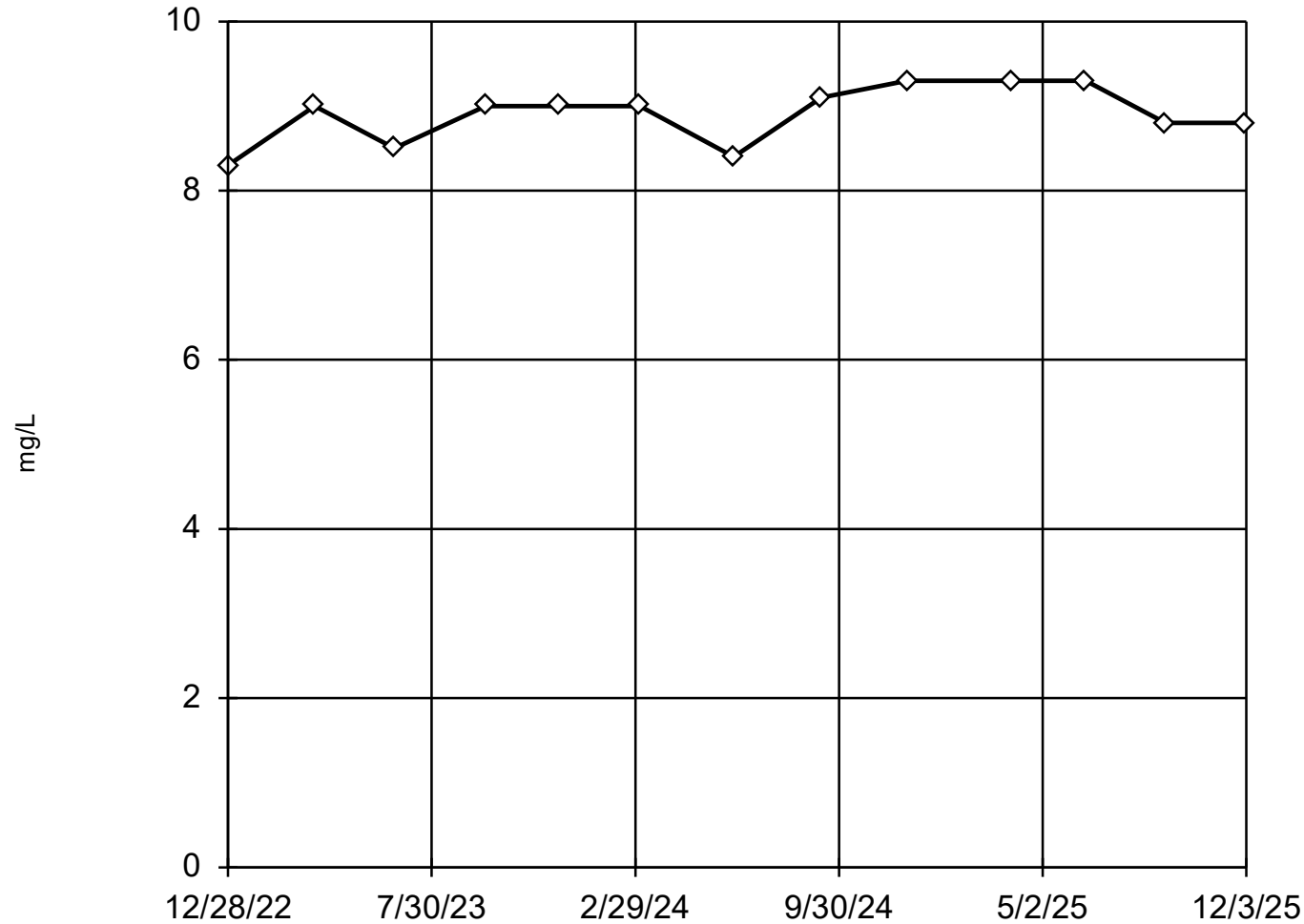
High cutoff = 4.09, low cutoff = -1.216, based on IQR multiplier of 3.

Constituent: Iron, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-2S



n = 13

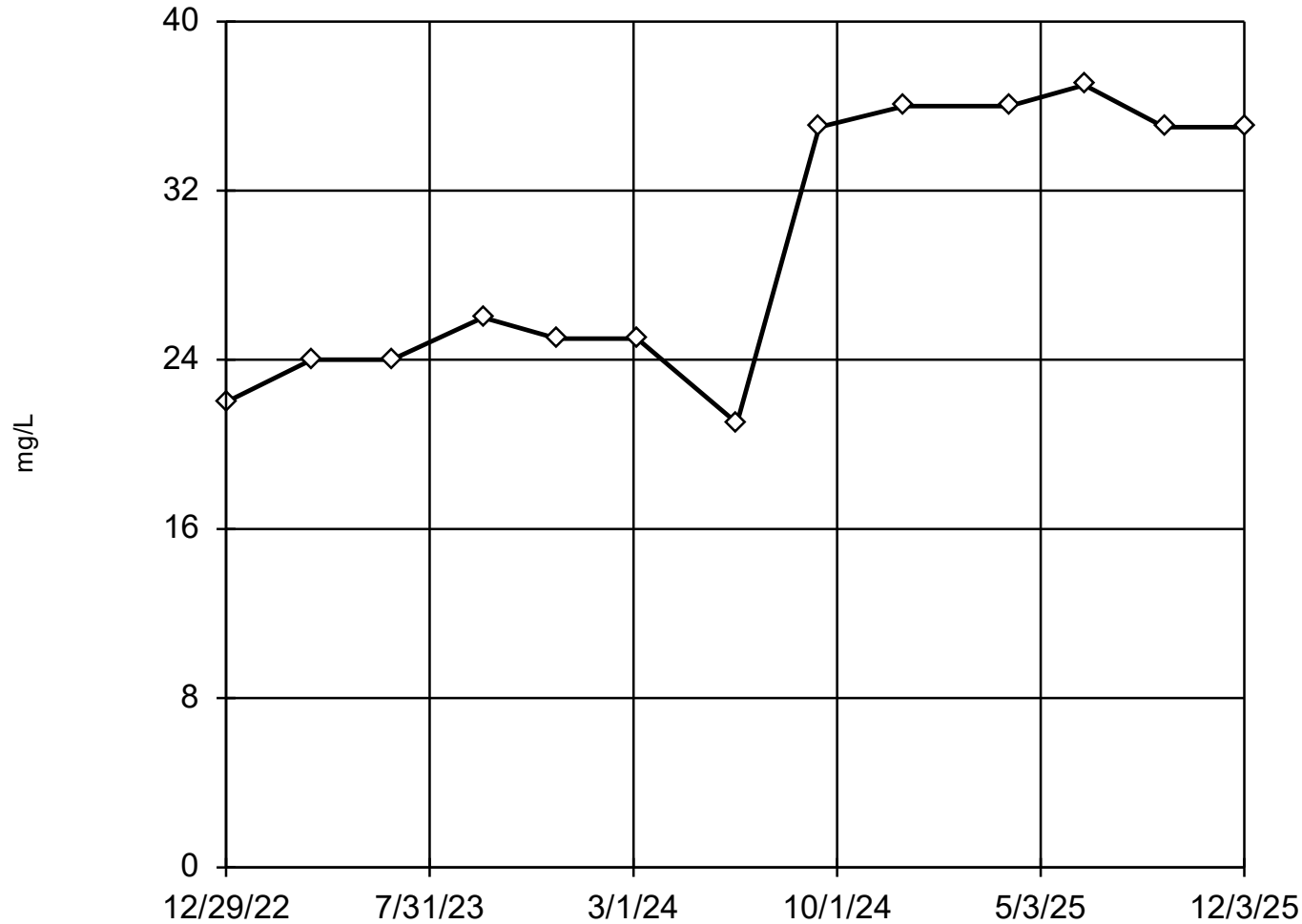
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 8.908, std. dev. 0.3353, critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8989
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Magnesium, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-3S



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

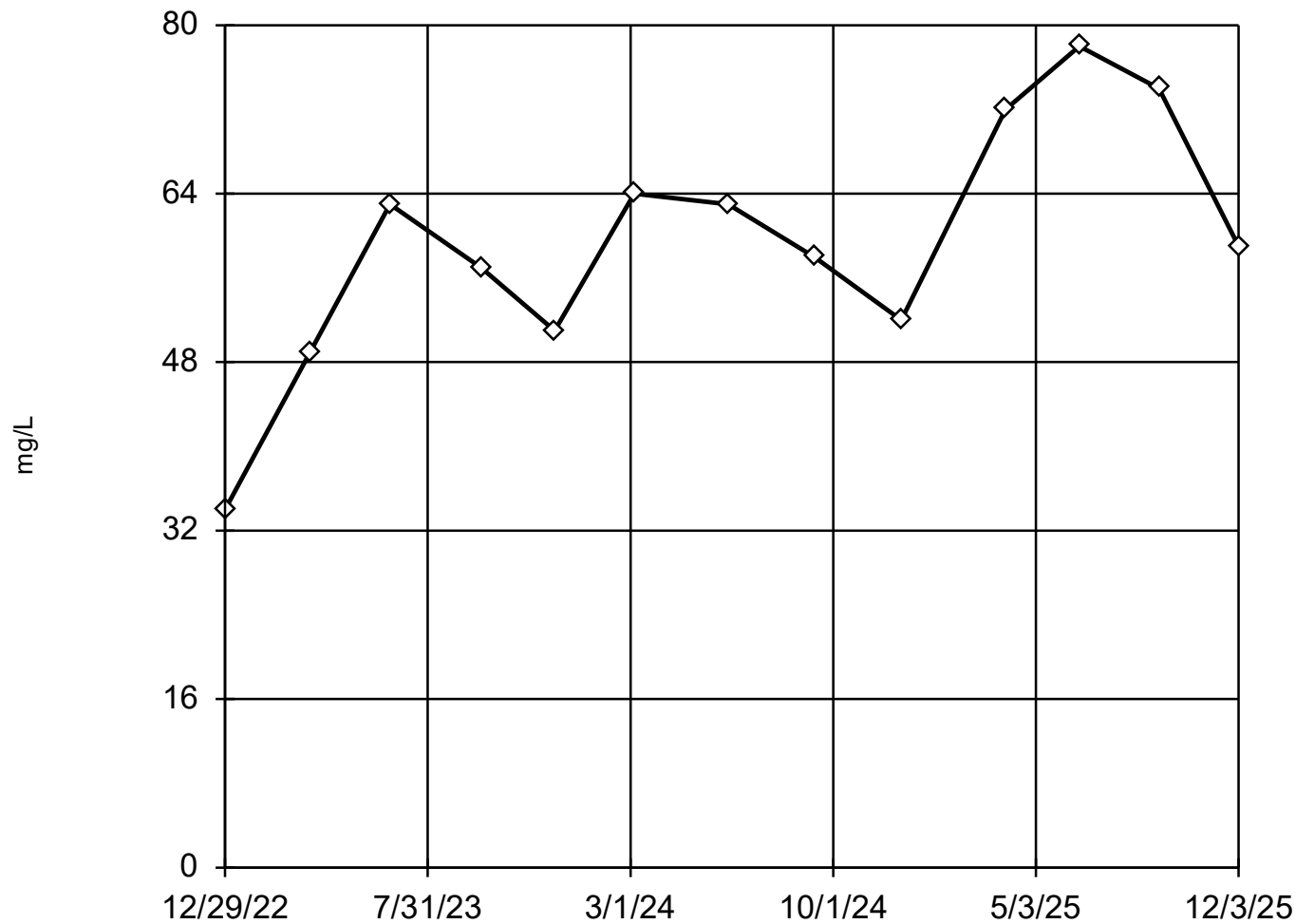
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 114.8, low cutoff = 7.418, based on IQR multiplier of 3.

Constituent: Magnesium, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-4S



n = 13

No statistical outliers.
Testing for 1 low outlier.
Mean = 59.54.
Std. Dev. = 11.73.
34: c = 0.425
tab1 = 0.521.
Alpha = 0.05.

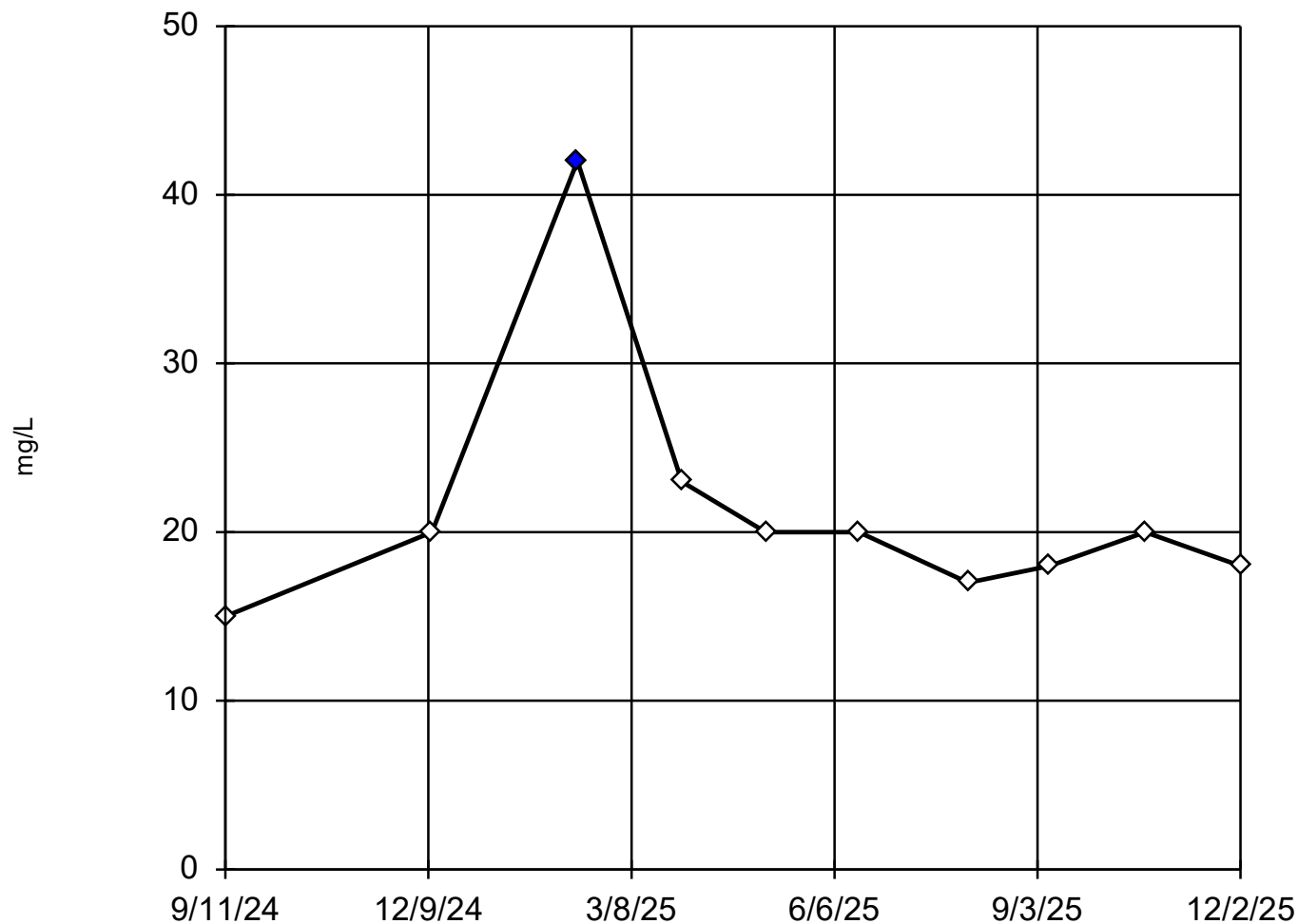
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9471
Critical = 0.883
The distribution was found
to be normally distrib-
uted.

Constituent: Magnesium, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-5S



n = 10

Statistical outlier is drawn as solid.
1 value manually flagged as an outlier.
Testing for 1 high outlier.
Mean = 21.3.
Std. Dev. = 7.587.
42 (o): c = 0.76
tabl = 0.477.
Alpha = 0.05.

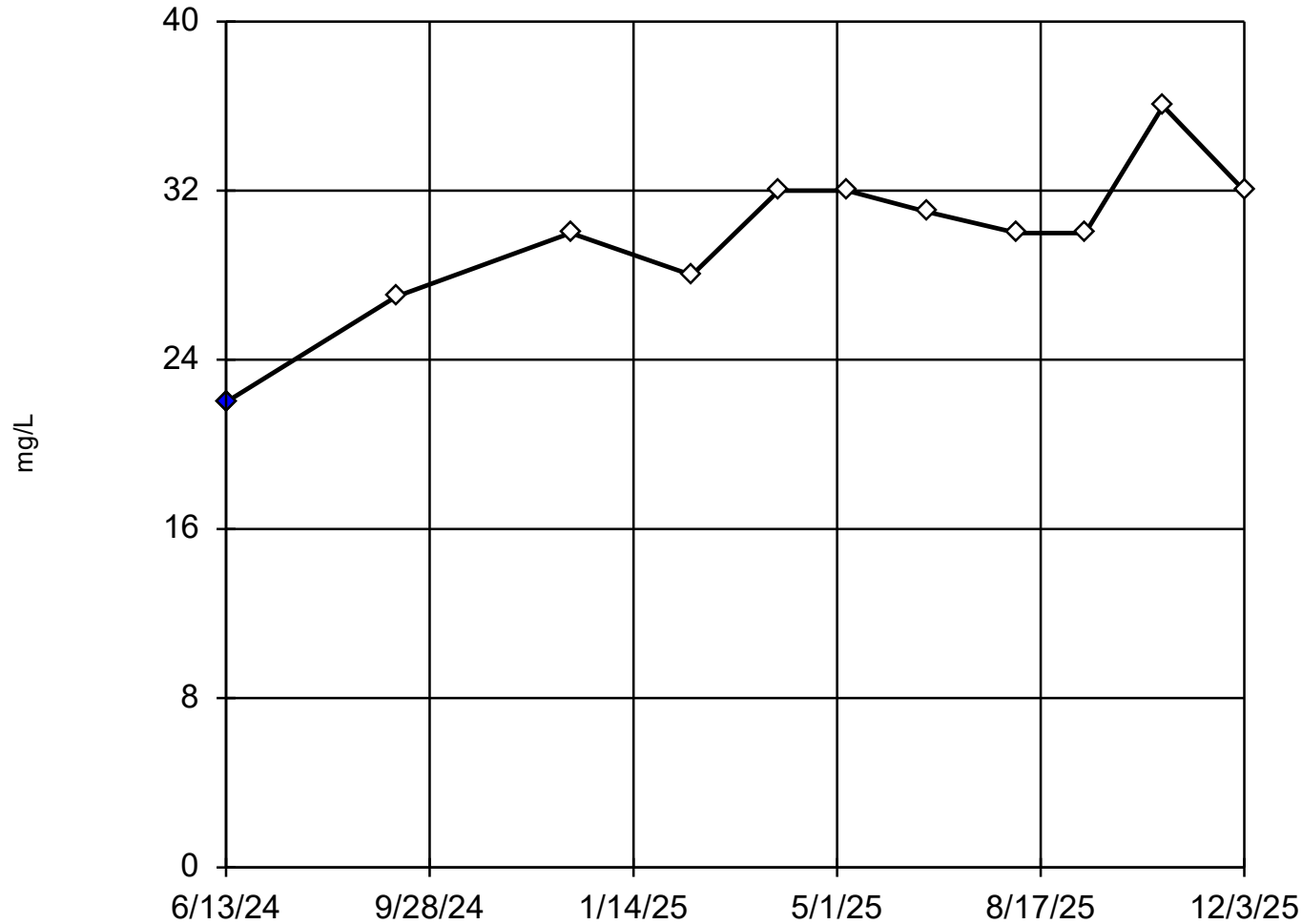
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9355
Critical = 0.859
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Magnesium, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-6S



n = 11

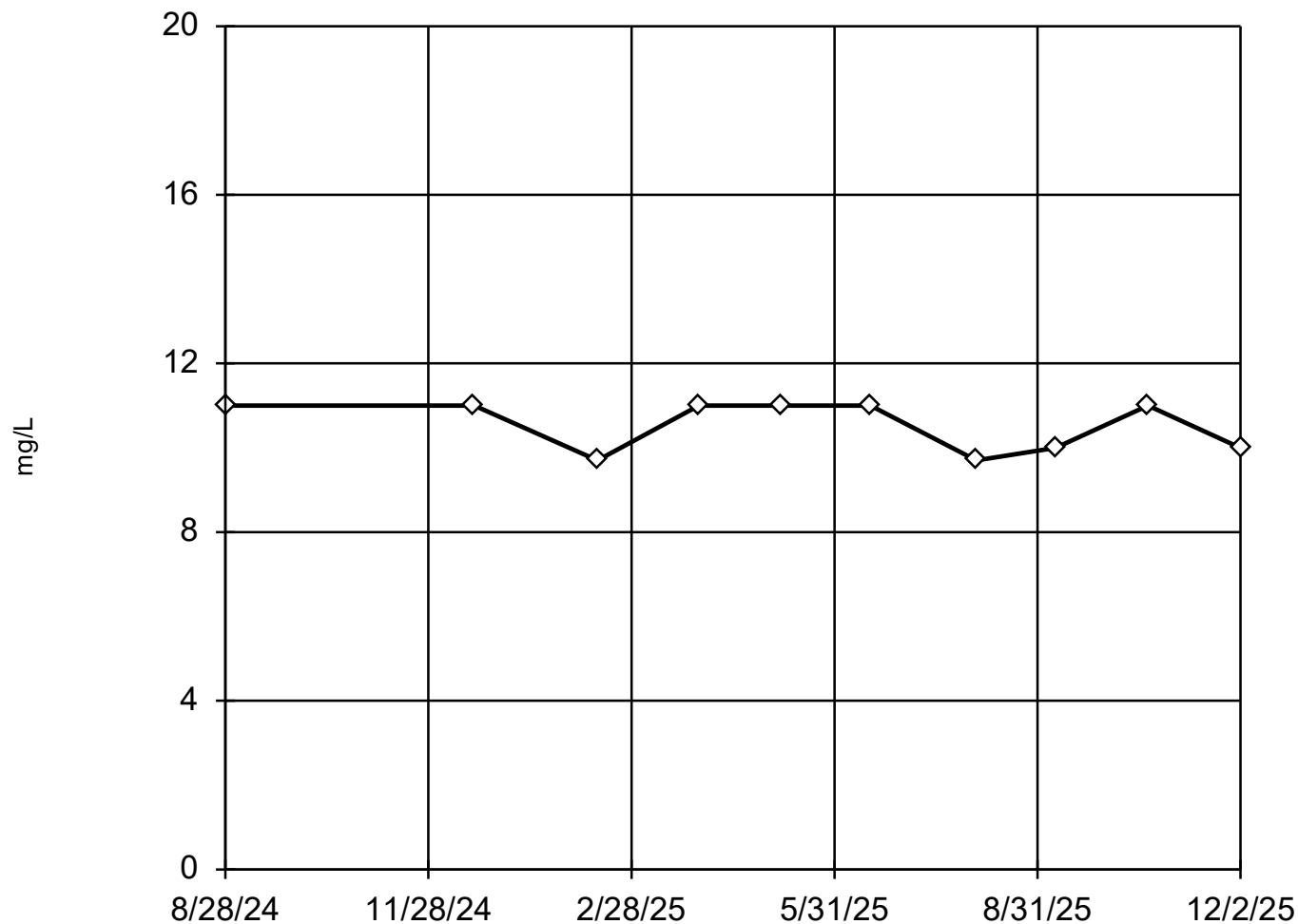
Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 30.
Std. Dev. = 3.55.
22 (z): c = 0.6
tab1 = 0.576.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9309
Critical = 0.869
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Magnesium, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-7D



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

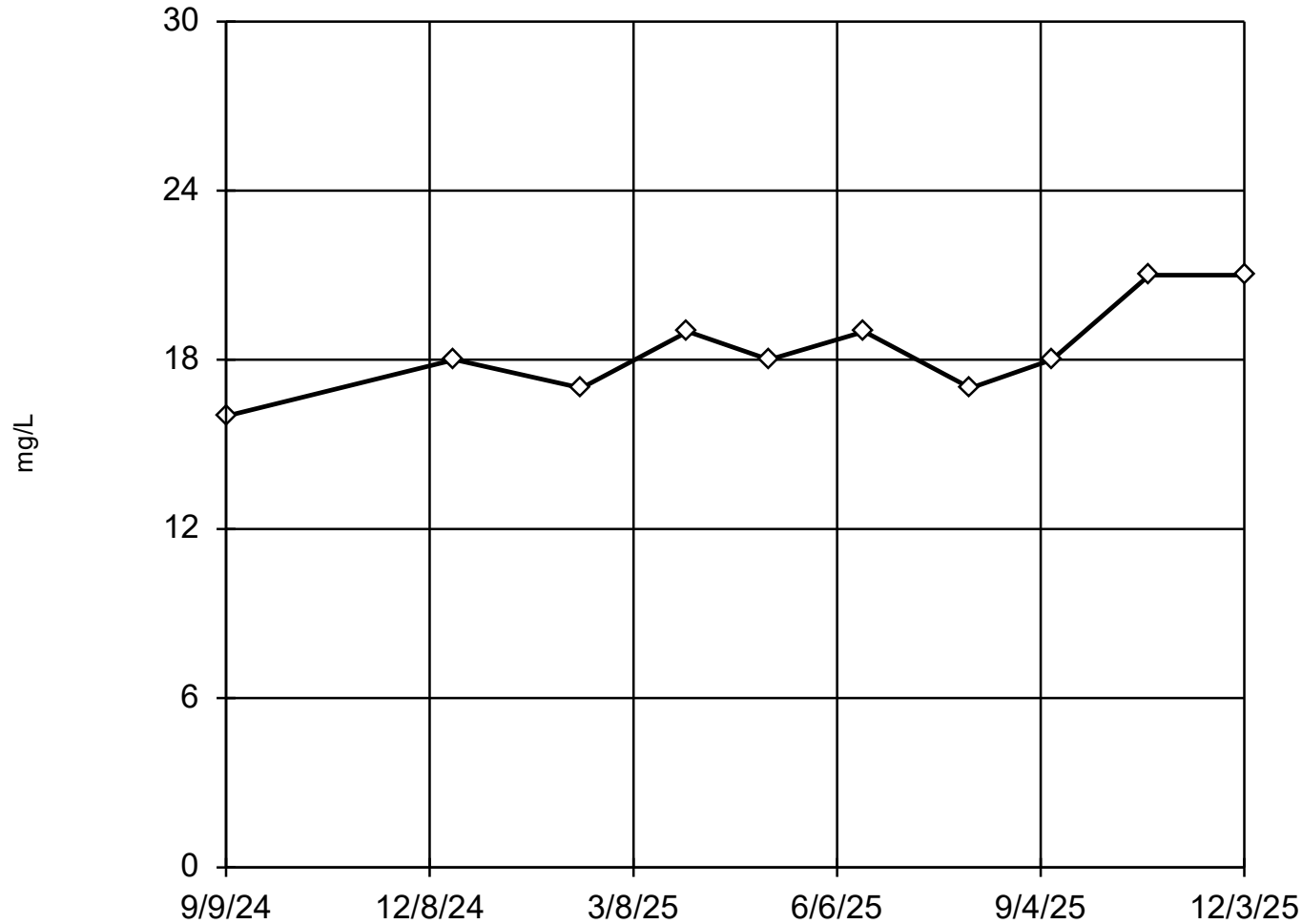
High cutoff = 15.33, low cutoff = 7.069, based on IQR multiplier of 3.

Constituent: Magnesium, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-8D



n = 10

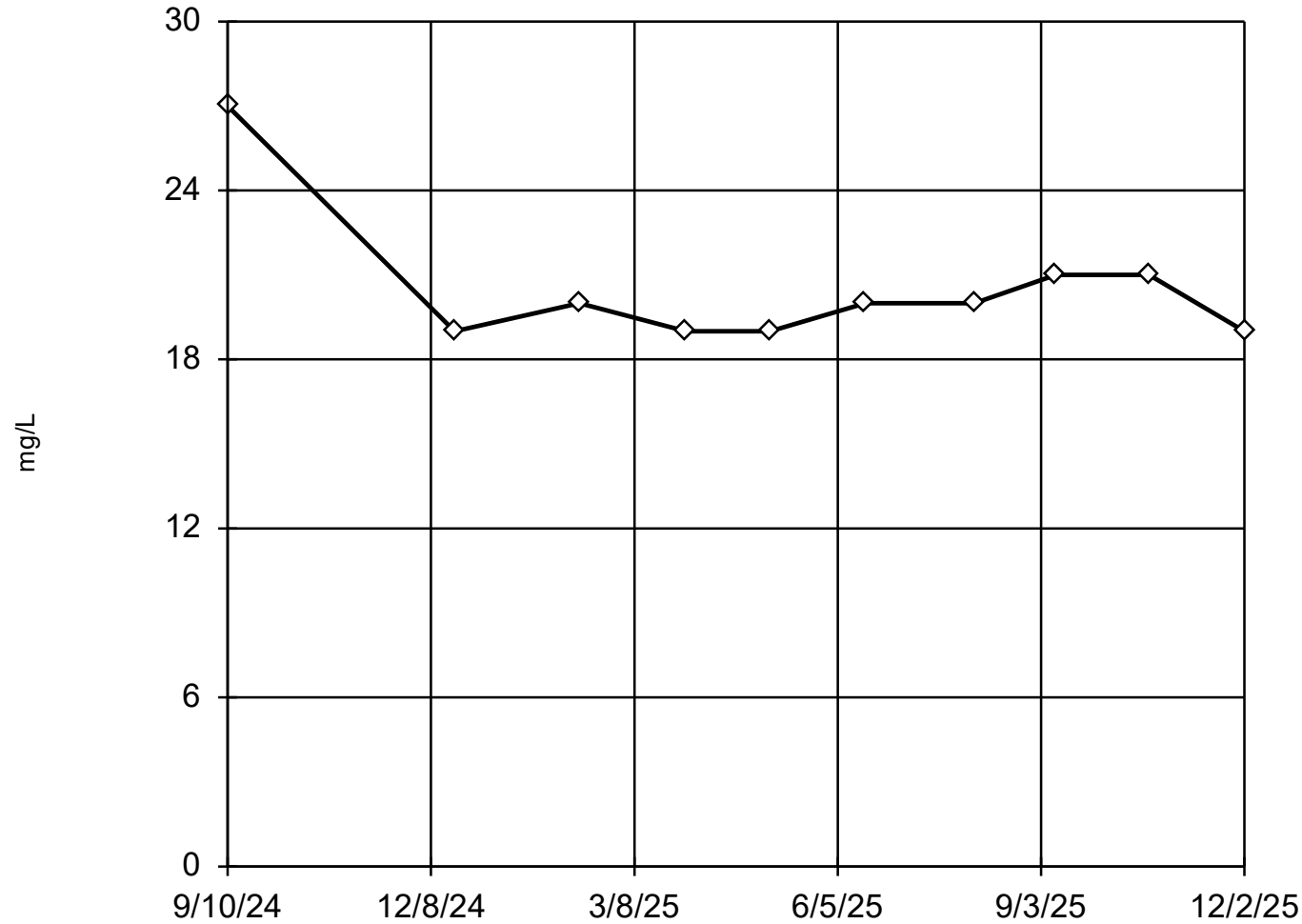
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 18.4, std. dev. 1.647, critical Tn 2.176

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9194
Critical = 0.869
The distribution was found to be normally distributed.

Constituent: Magnesium, Dissolved Analysis Run 3/25/2026 10:58 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-9D



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

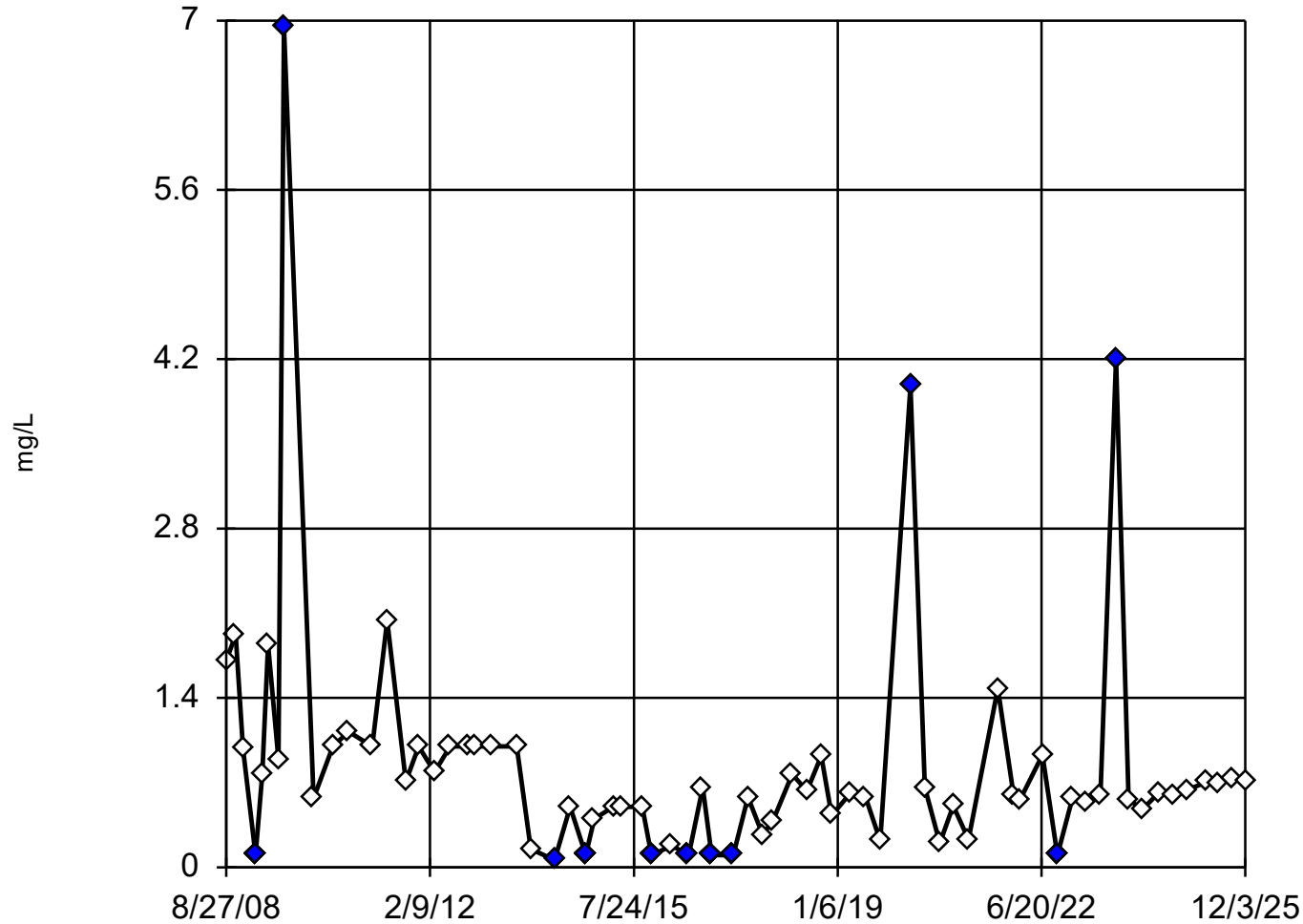
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 28.35, low cutoff = 14.07, based on IQR multiplier of 3.

Constituent: Magnesium, Dissolved Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

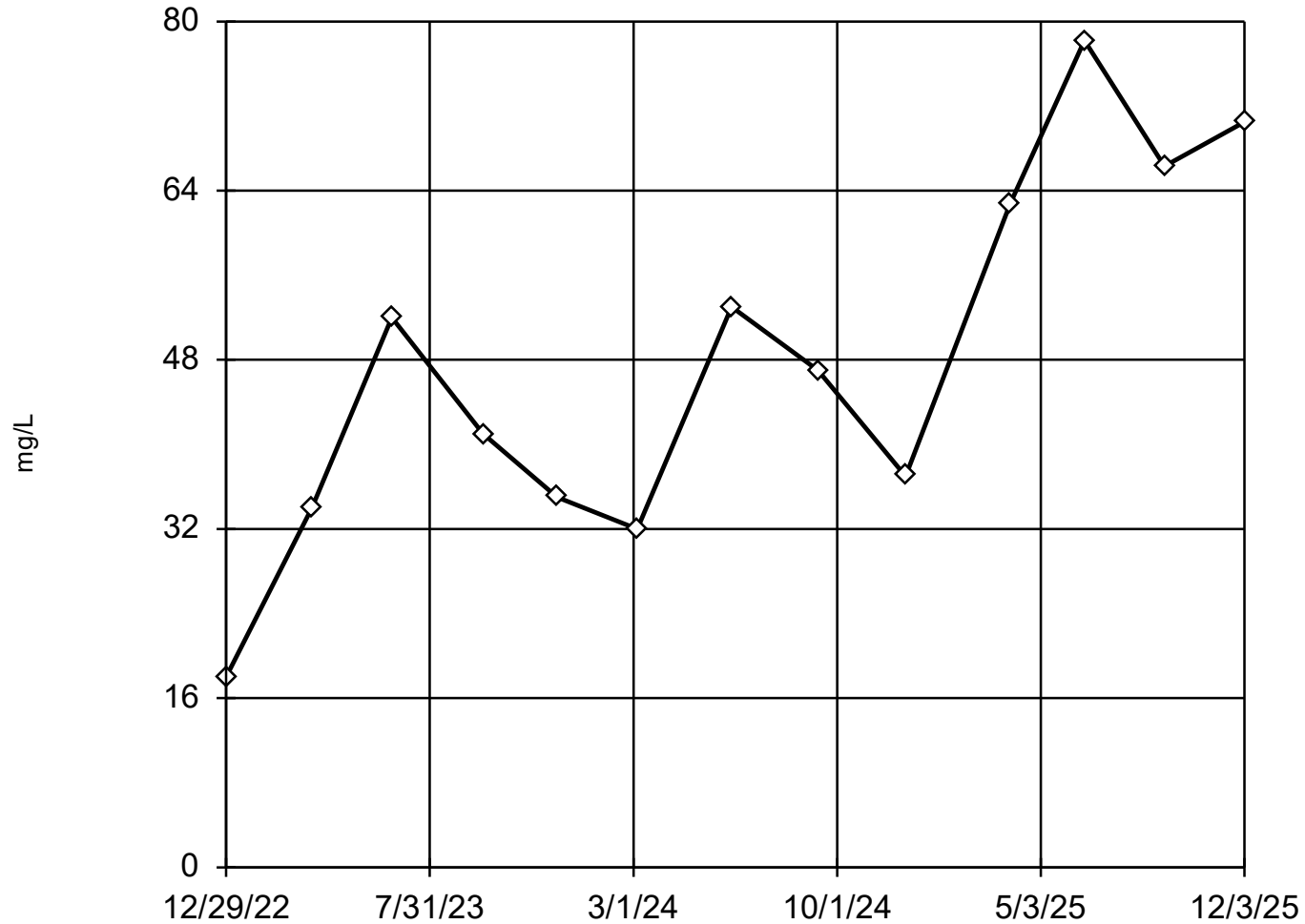
Tukey's Outlier Screening

MW-2S



EPA Screening (suspected outliers for Dixon's Test)

MW-4S



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 48.22, std. dev. 17.57, critical Tn 2.331

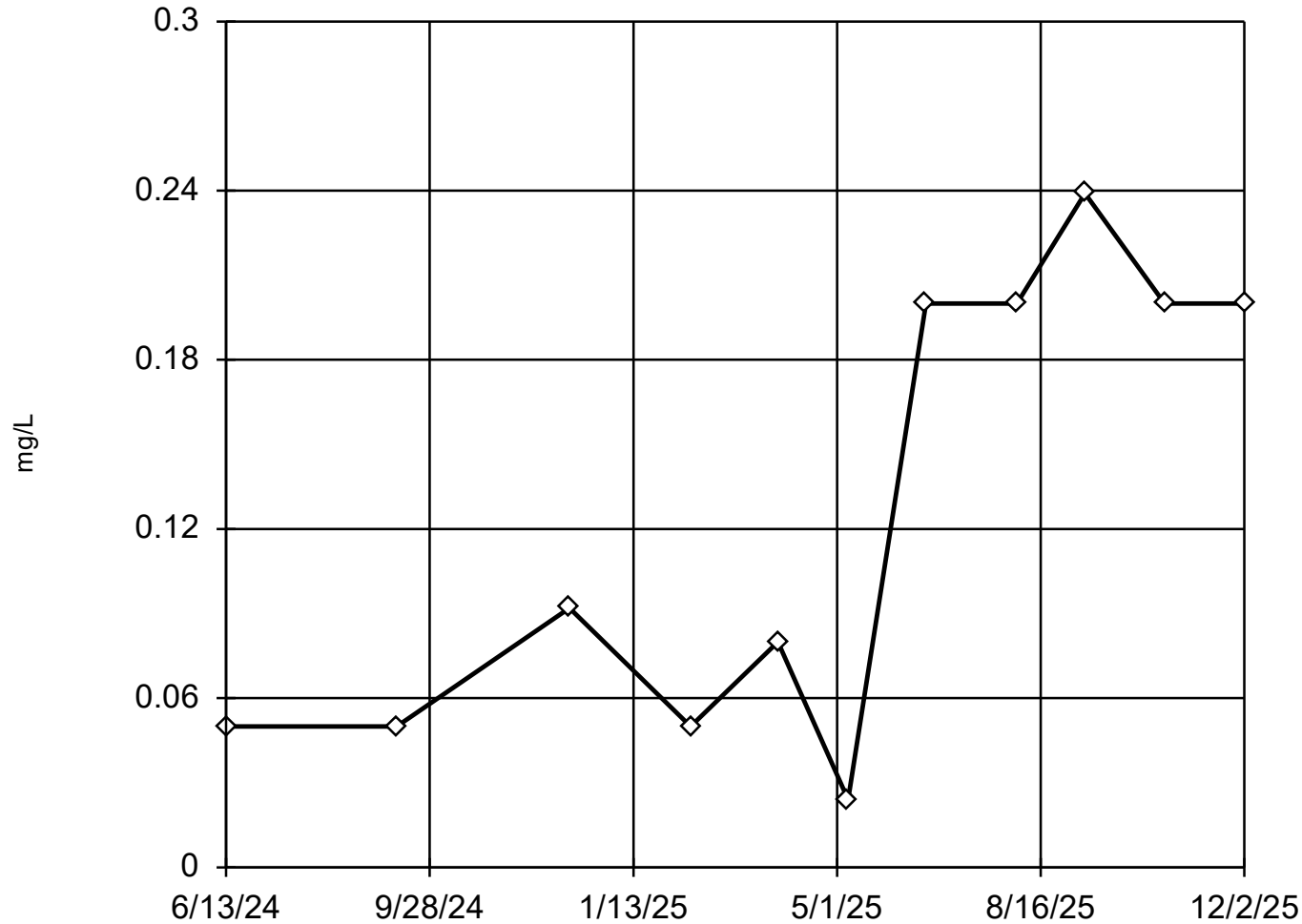
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9701
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Nitrate Analysis Run 3/25/2026 11:03 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-5S



n = 11

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

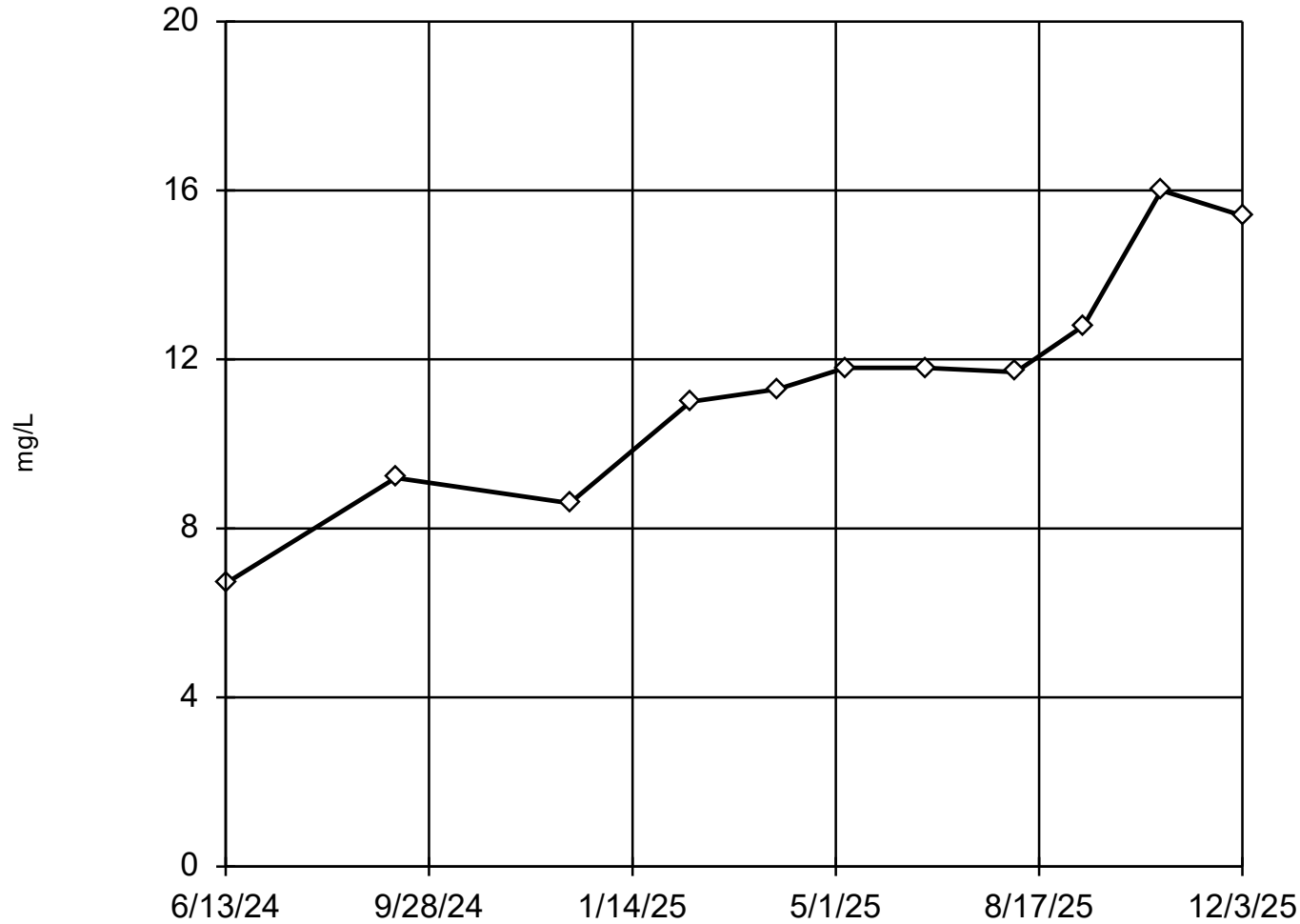
The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Nitrate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-6S



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 11.48, std. dev. 2.728, critical Tn 2.234

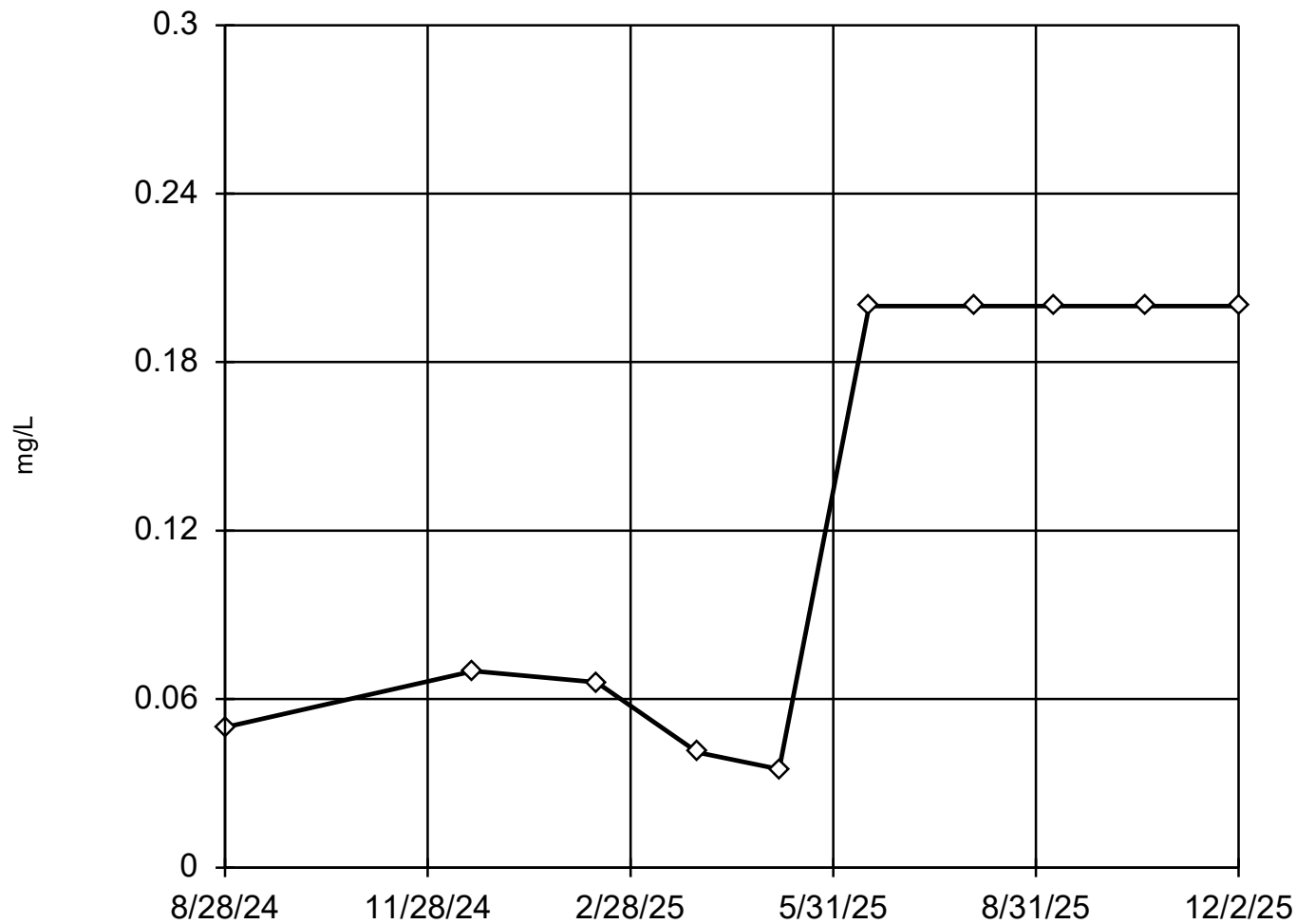
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9543
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: Nitrate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-7D



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

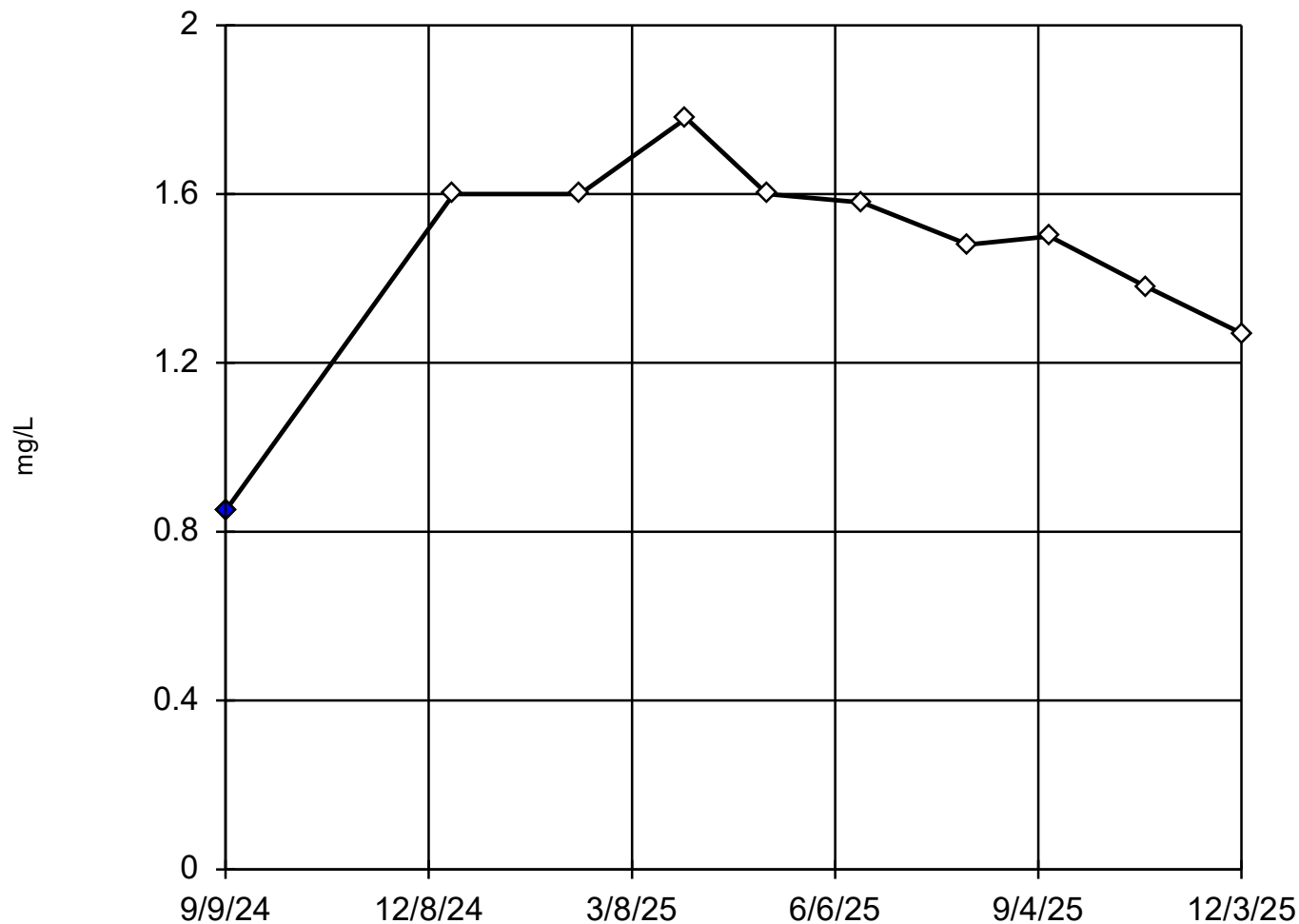
High cutoff = 17.24, low cutoff = 0.0005253, based on IQR multiplier of 3.

Constituent: Nitrate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-8D



n = 10

Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 1.464.
Std. Dev. = 0.2565.
0.85 (z): c = 0.56
tab1 = 0.477.
Alpha = 0.05.

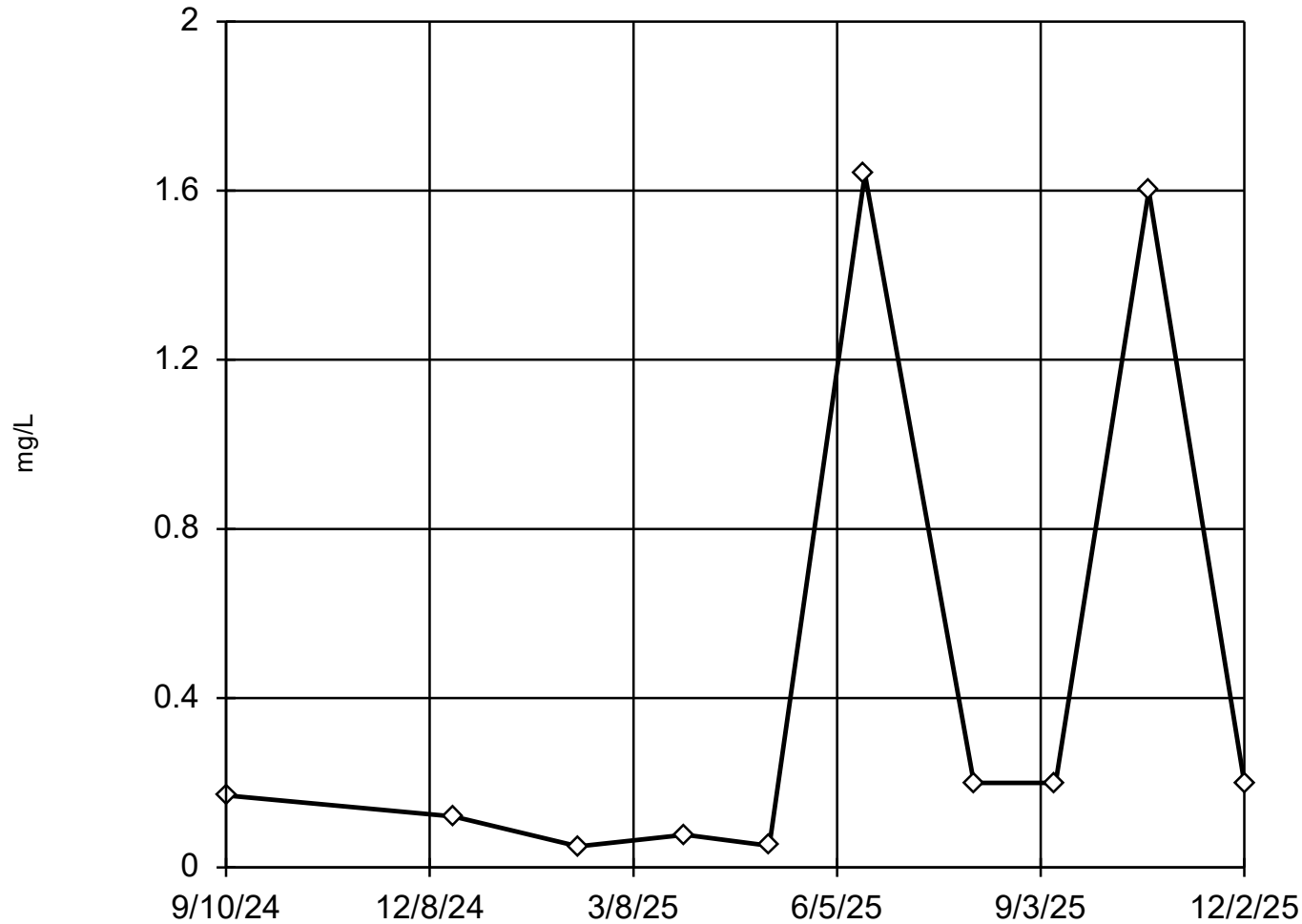
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9465
Critical = 0.859
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Nitrate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-9D



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

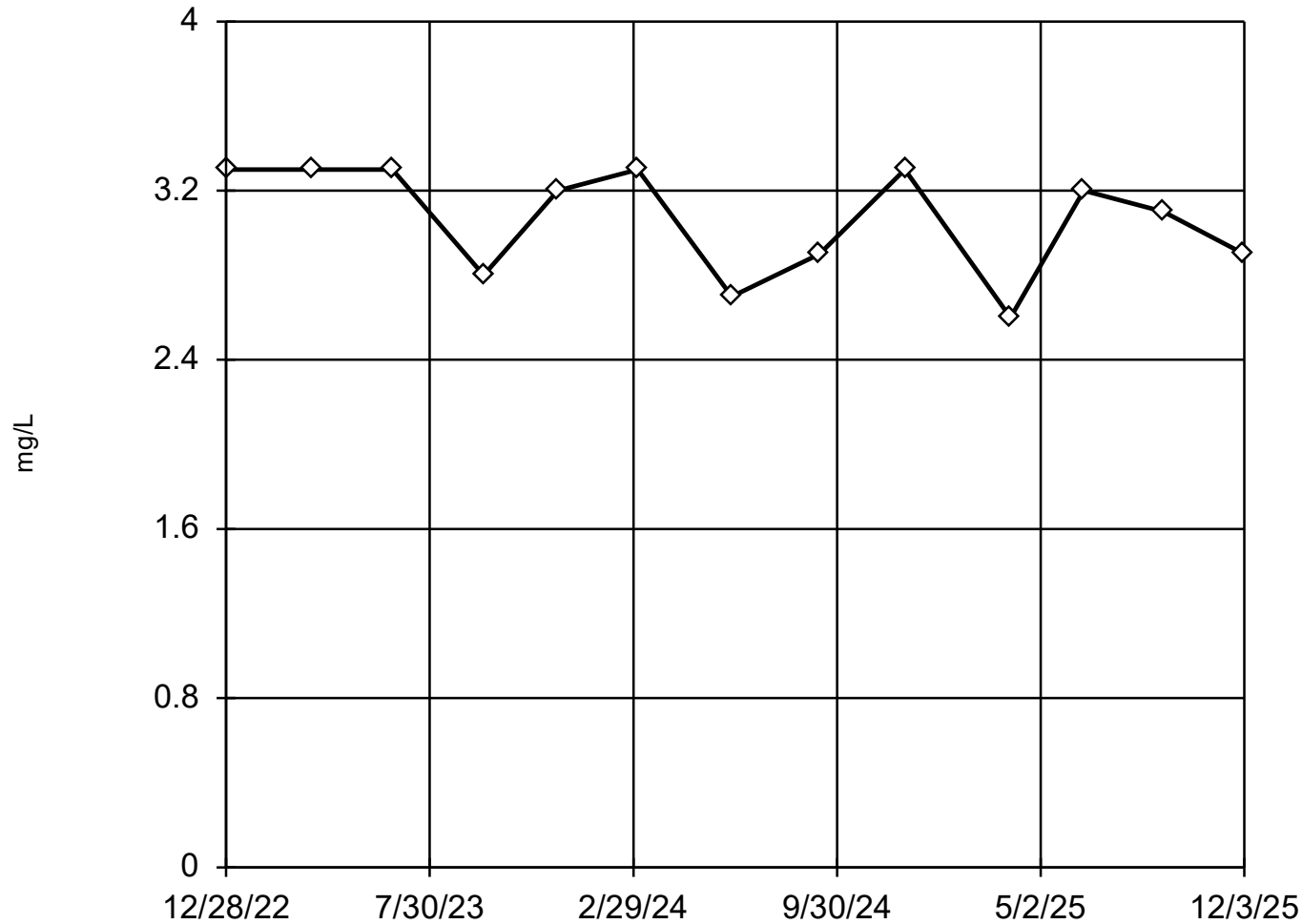
High cutoff = 416.1, low cutoff = 0.00008519, based on IQR multiplier of 3.

Constituent: Nitrate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-2S



n = 13

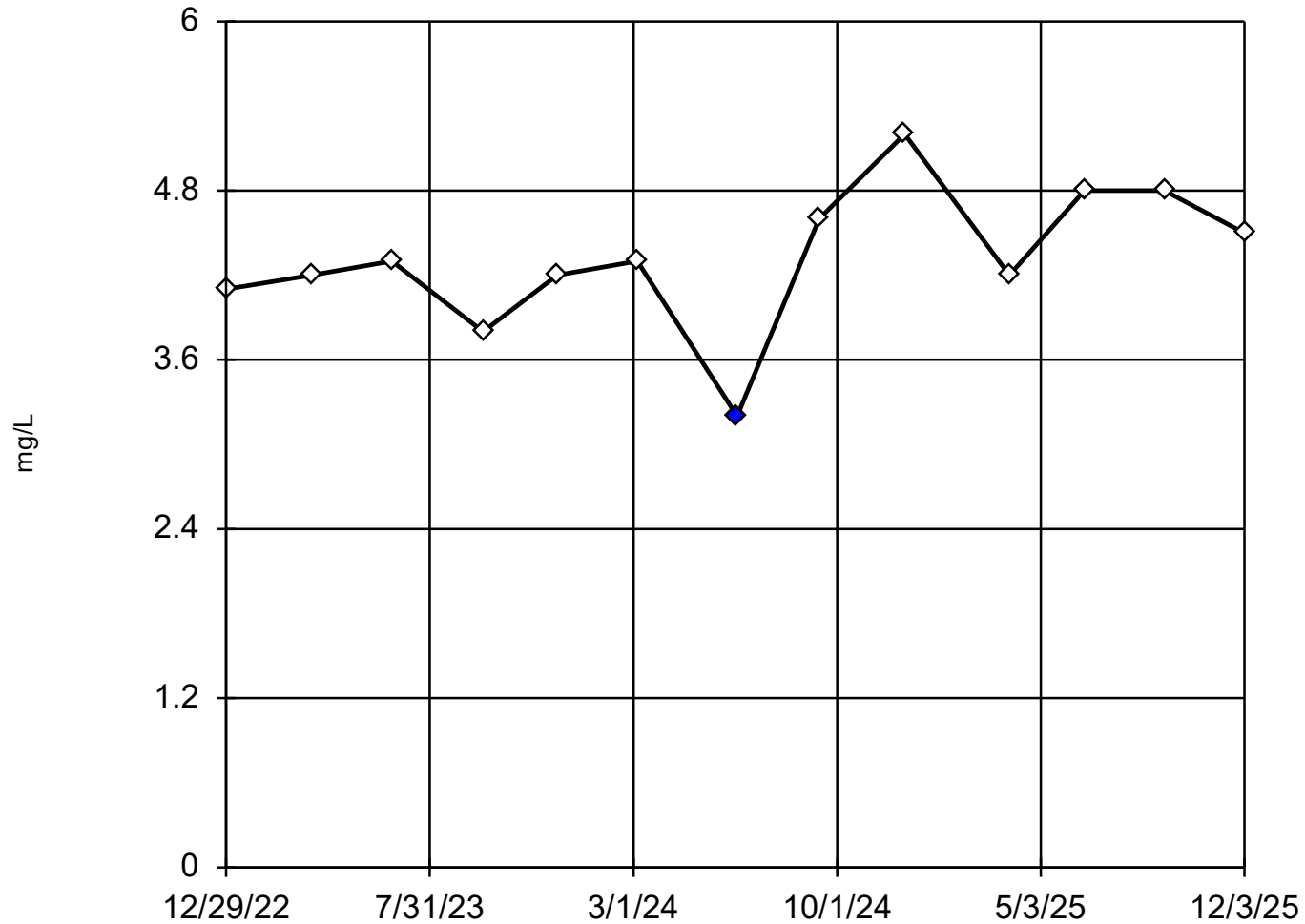
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 4.203, low cutoff = -2.473, based on IQR multiplier of 3.

Dixon's Outlier Test

MW-3S



n = 13

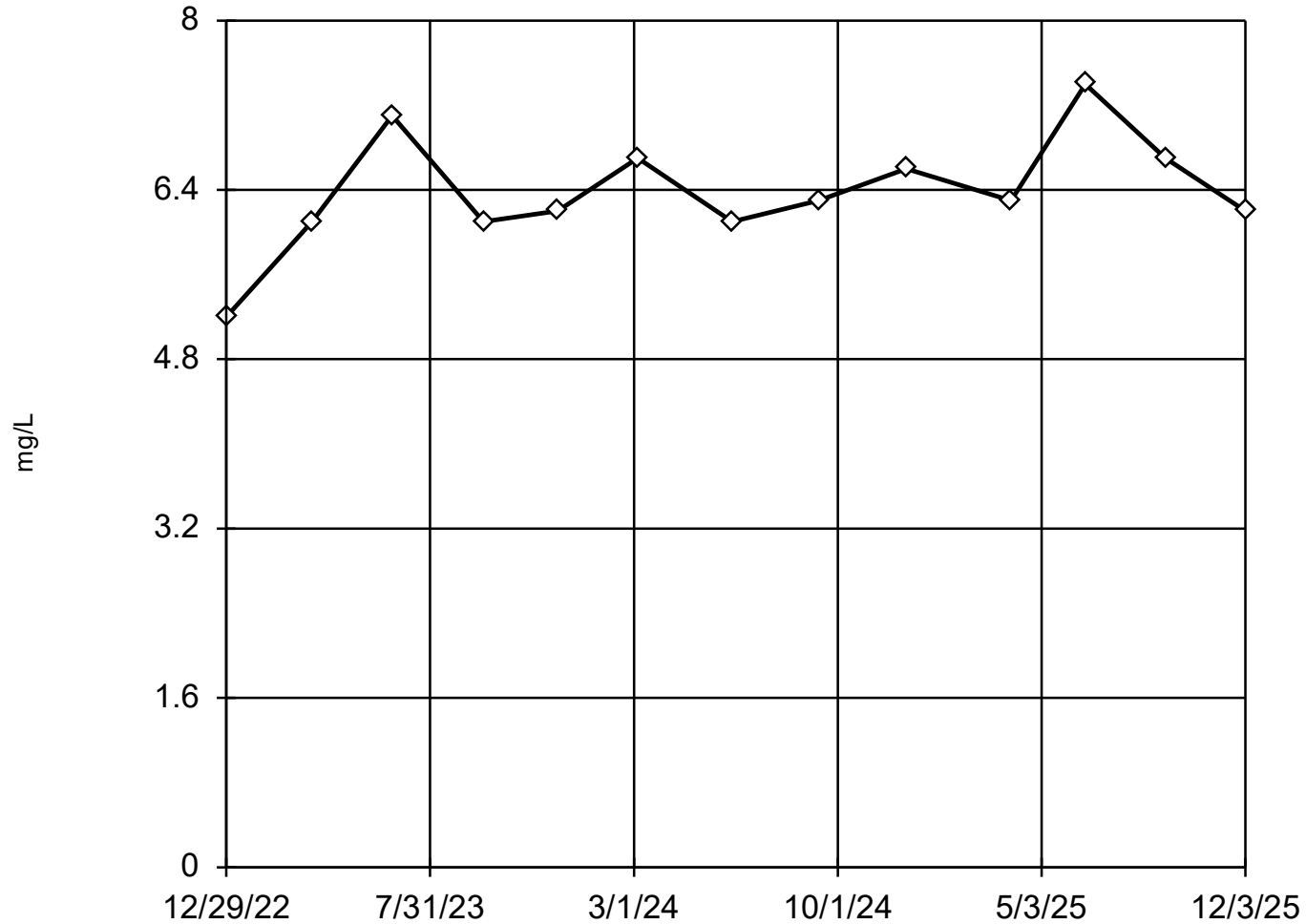
Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 4.323.
Std. Dev. = 0.4969.
3.2: c = 0.5625
tabl = 0.521.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9493
Critical = 0.883
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Potassium, Dissolved Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-4S



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

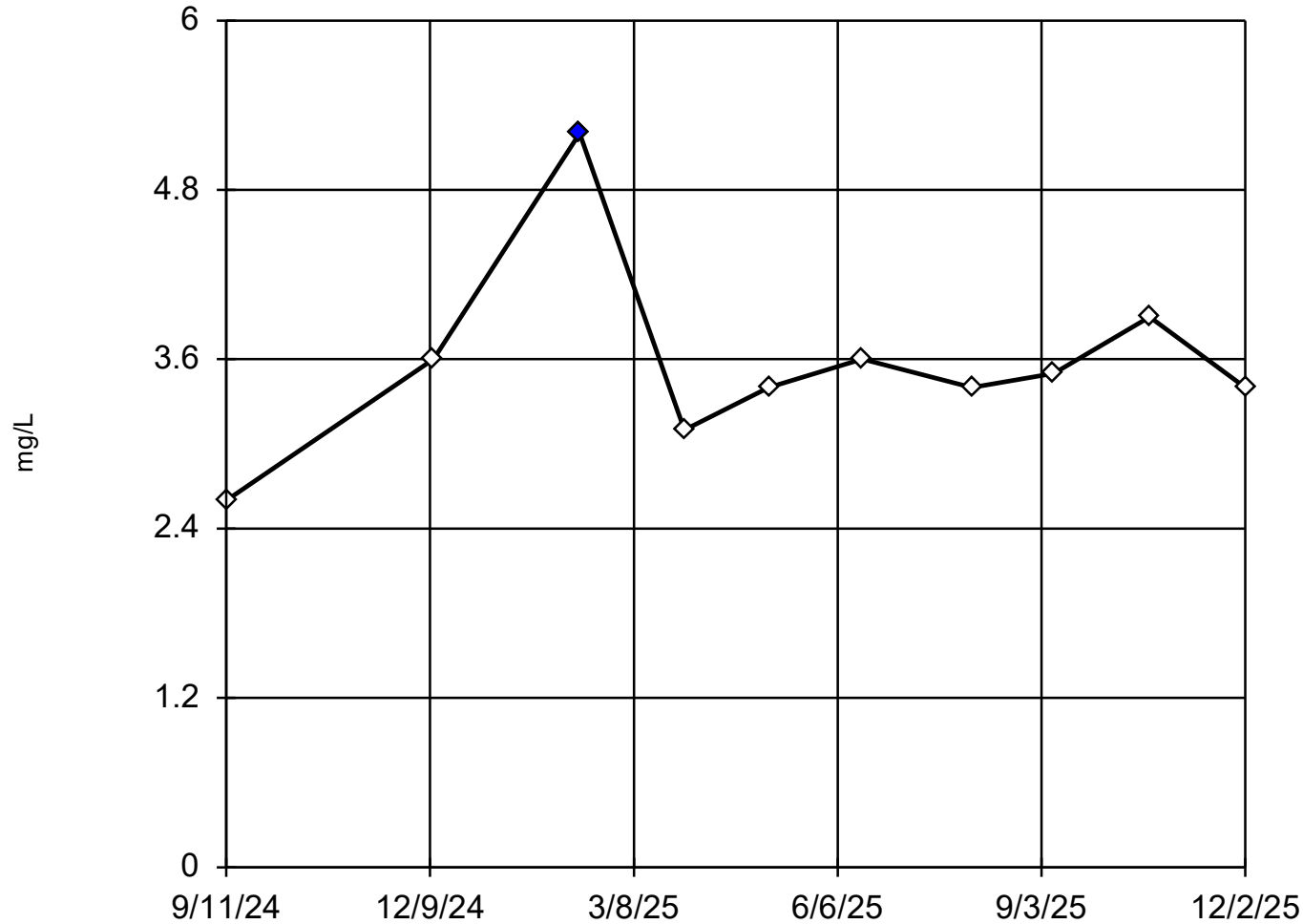
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 8.242, low cutoff = 3.764, based on IQR multiplier of 3.

Constituent: Potassium, Dissolved Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-5S



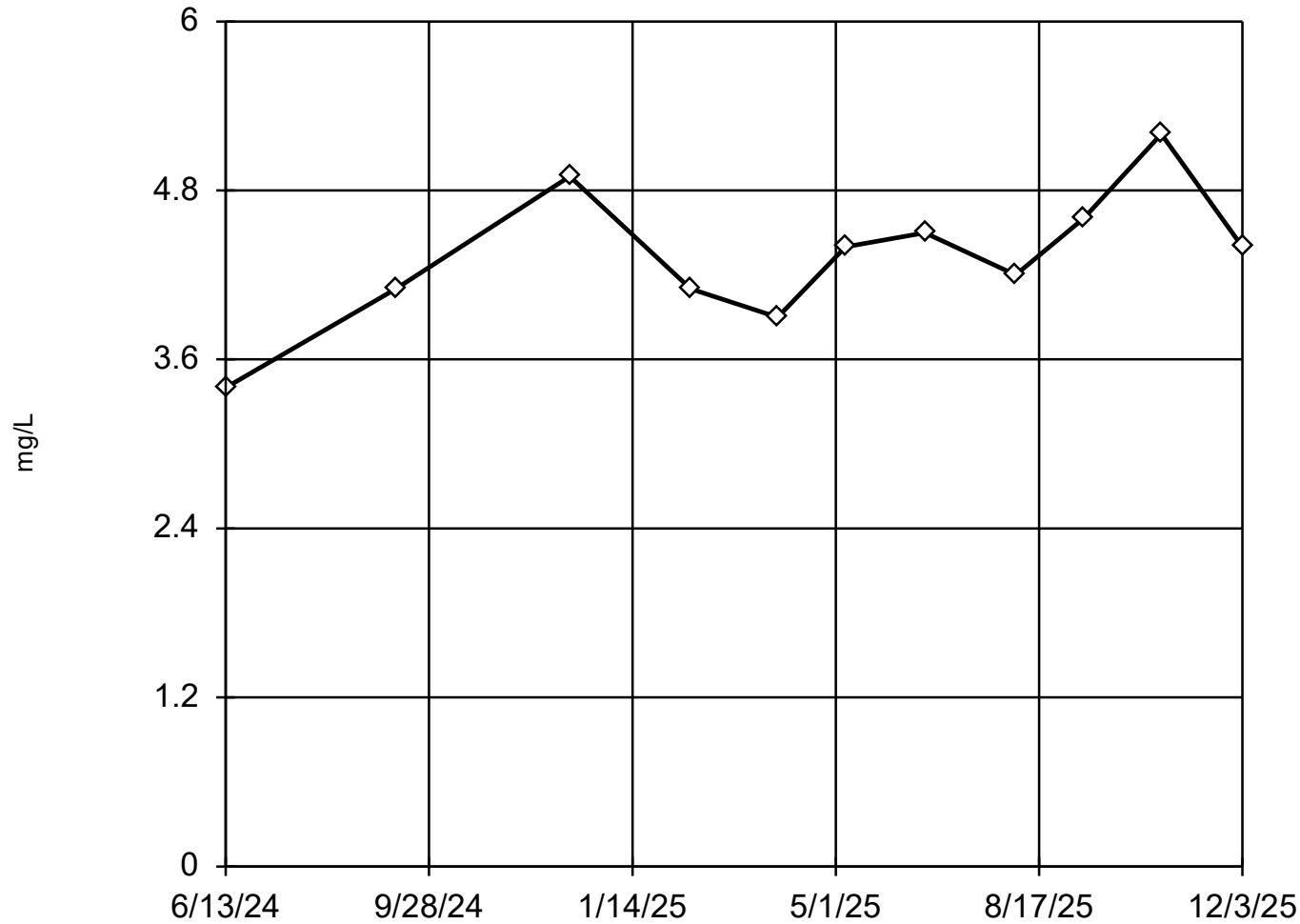
n = 10

Statistical outlier is drawn as solid.
1 value manually flagged as an outlier.
Testing for 1 high and 1 low outliers.
Mean = 3.57.
Std. Dev. = 0.6684.
5.2 (o): c = 0.619
tab1 = 0.477.
2.6 (z): c = 0.3846
tab1 = 0.477.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9373
Critical = 0.851
The distribution, after removal of suspect value, was found to be normally distributed.

EPA Screening (suspected outliers for Dixon's Test)

MW-6S



n = 11

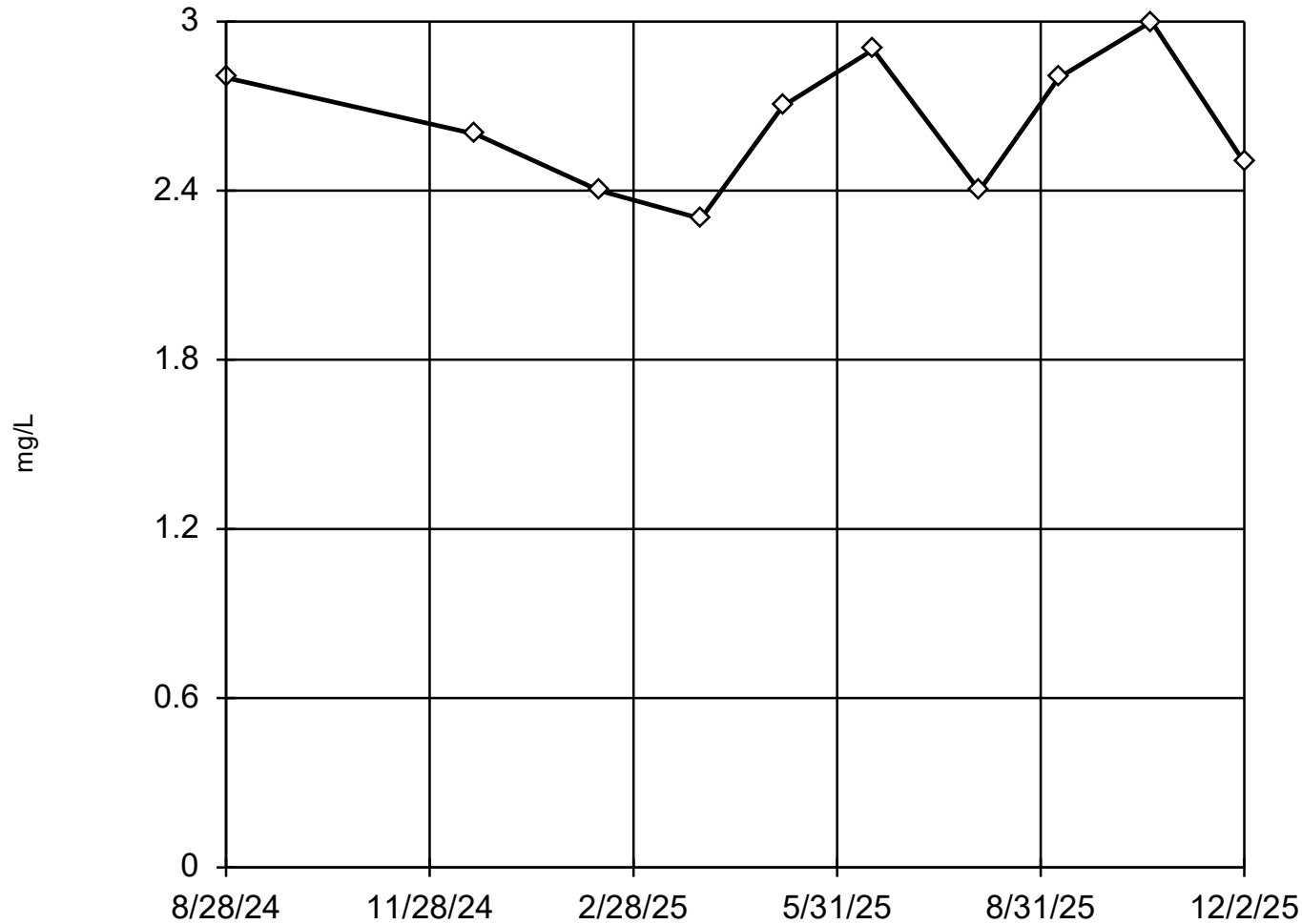
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 4.336, std. dev. 0.4864, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9815
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: Potassium, Dissolved Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-7D



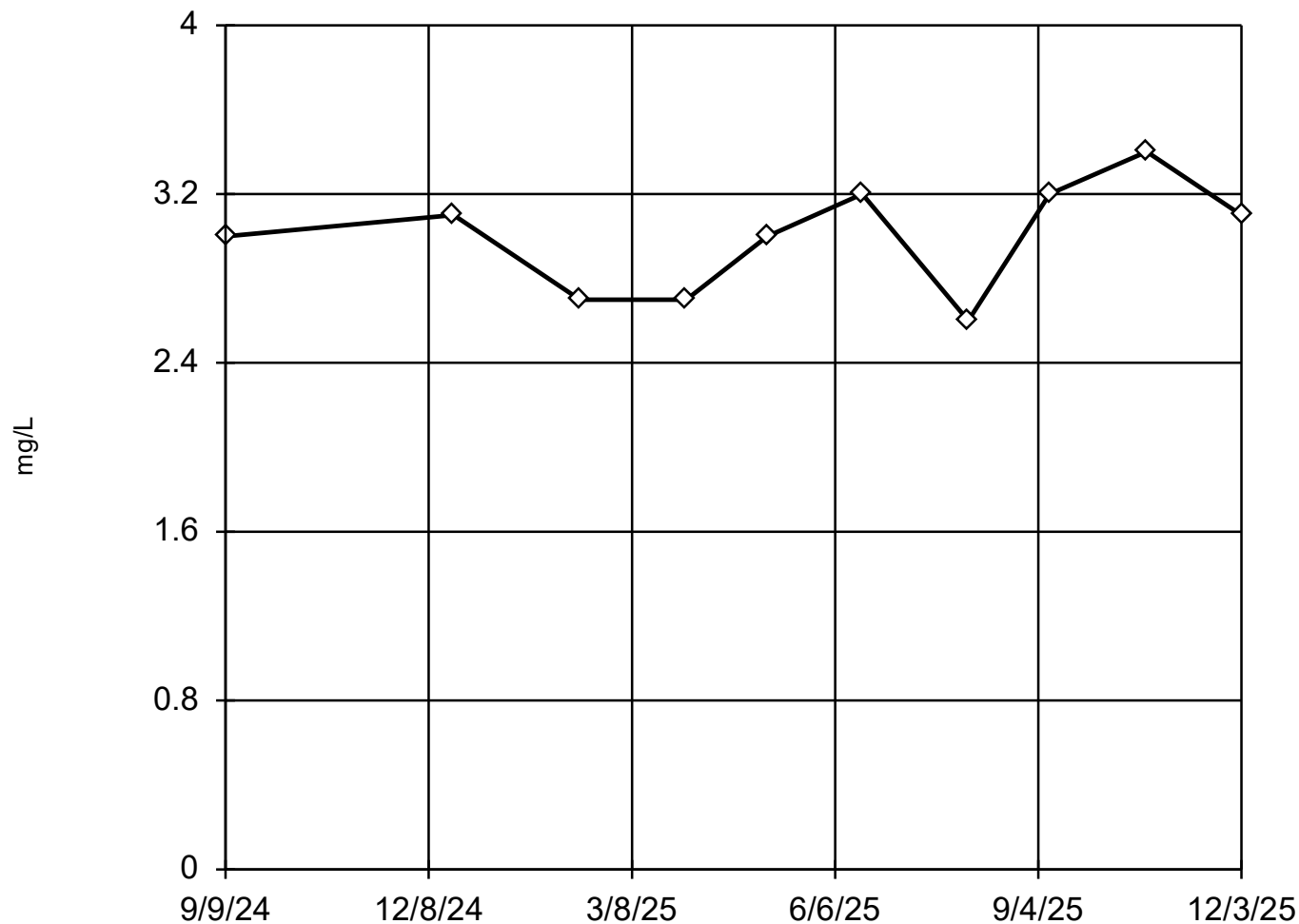
n = 10

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.64, std. dev. 0.2366, critical Tn 2.176

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9519
Critical = 0.869
The distribution was found to be normally distributed.

EPA Screening (suspected outliers for Dixon's Test)

MW-8D



n = 10

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 3, std. dev. 0.2582, critical Tn 2.176

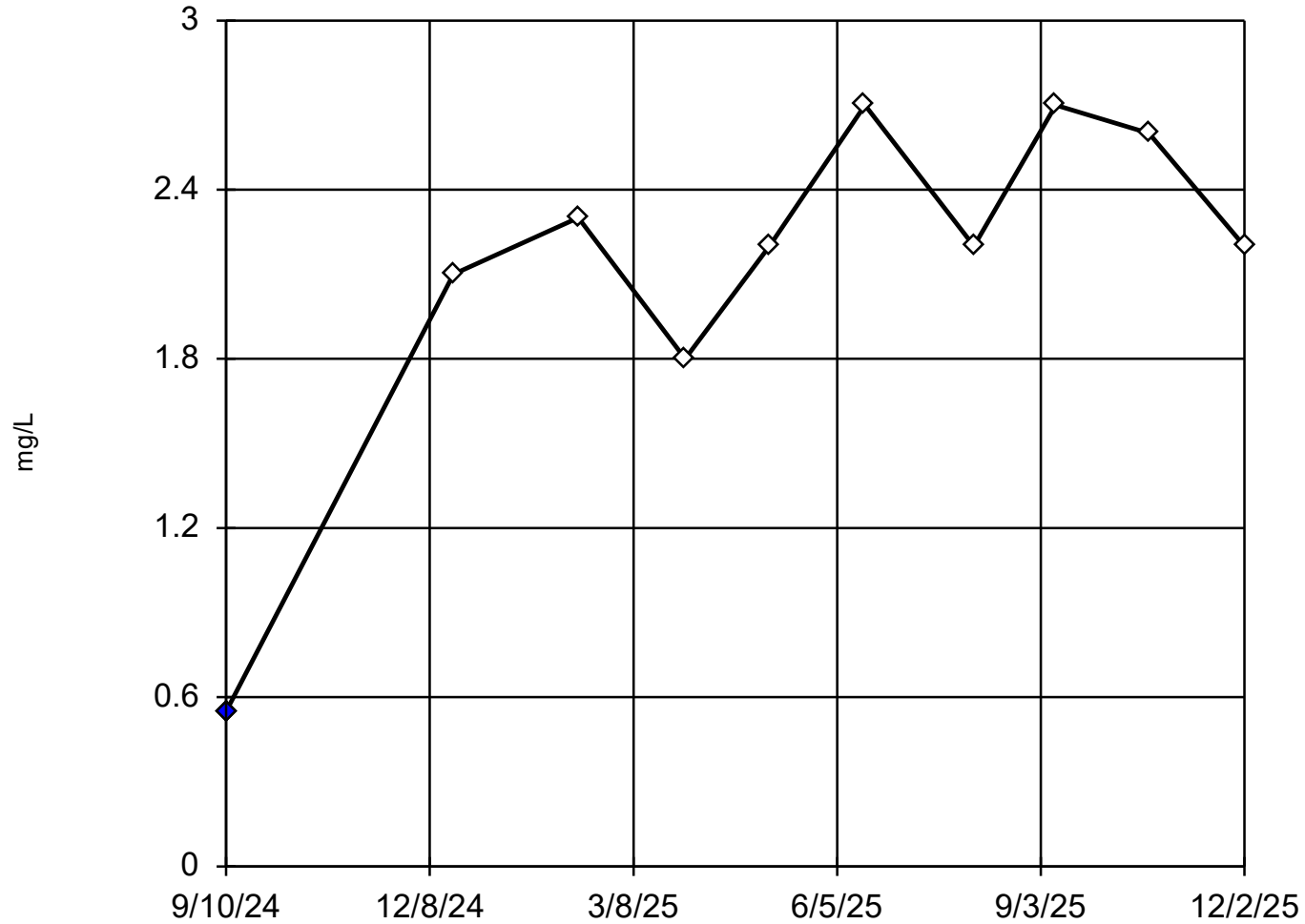
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9299
Critical = 0.869
The distribution was found to be normally distributed.

Constituent: Potassium, Dissolved Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-9D



n = 10

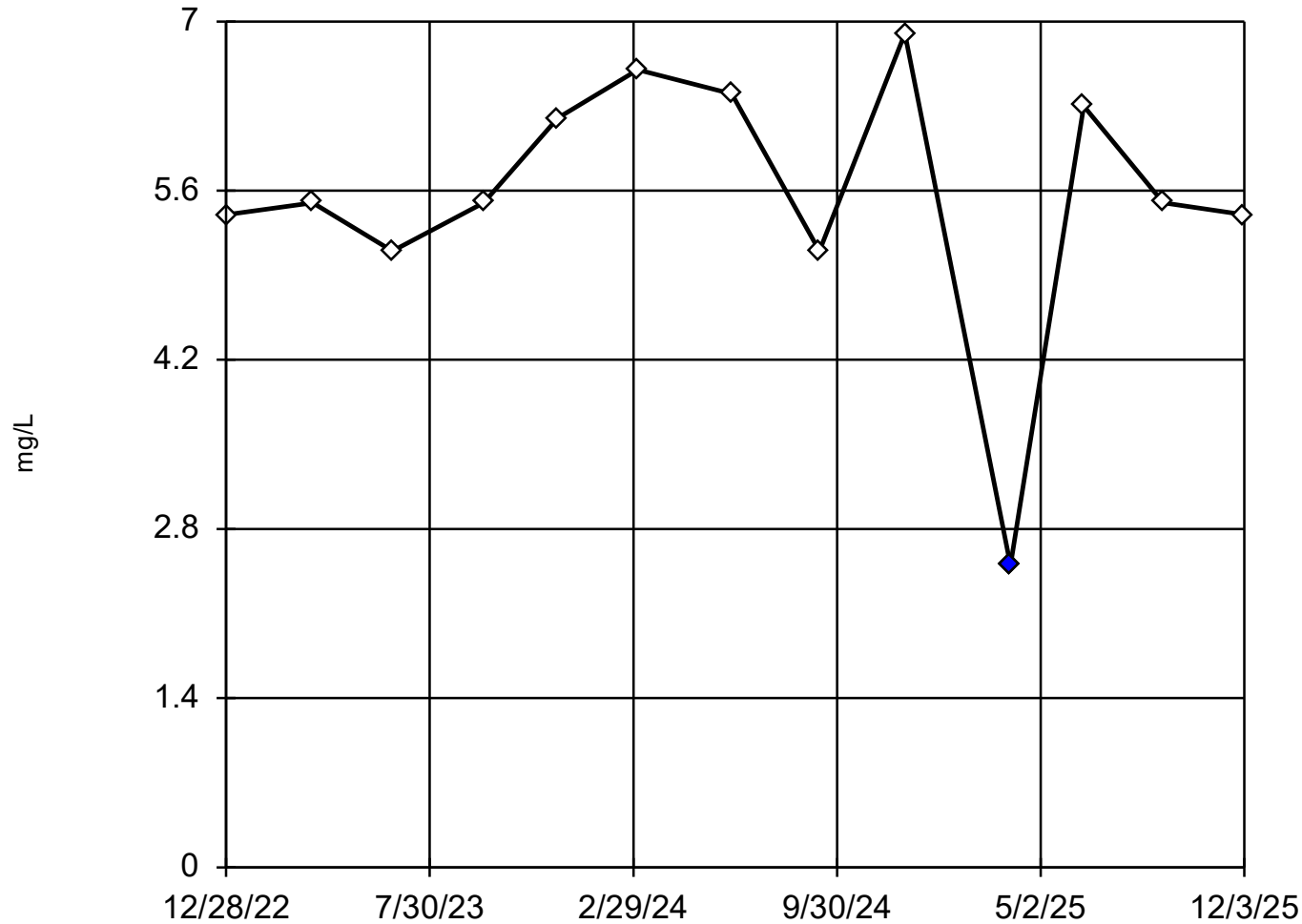
Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 2.135.
Std. Dev. = 0.6254.
<1.1 (z): c = 0.5814
tab1 = 0.477.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.907
Critical = 0.859
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Potassium, Dissolved Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-2S



n = 13

Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 5.569.
Std. Dev. = 1.095.
<5: c = 0.6341
tabl = 0.521.
Alpha = 0.05.

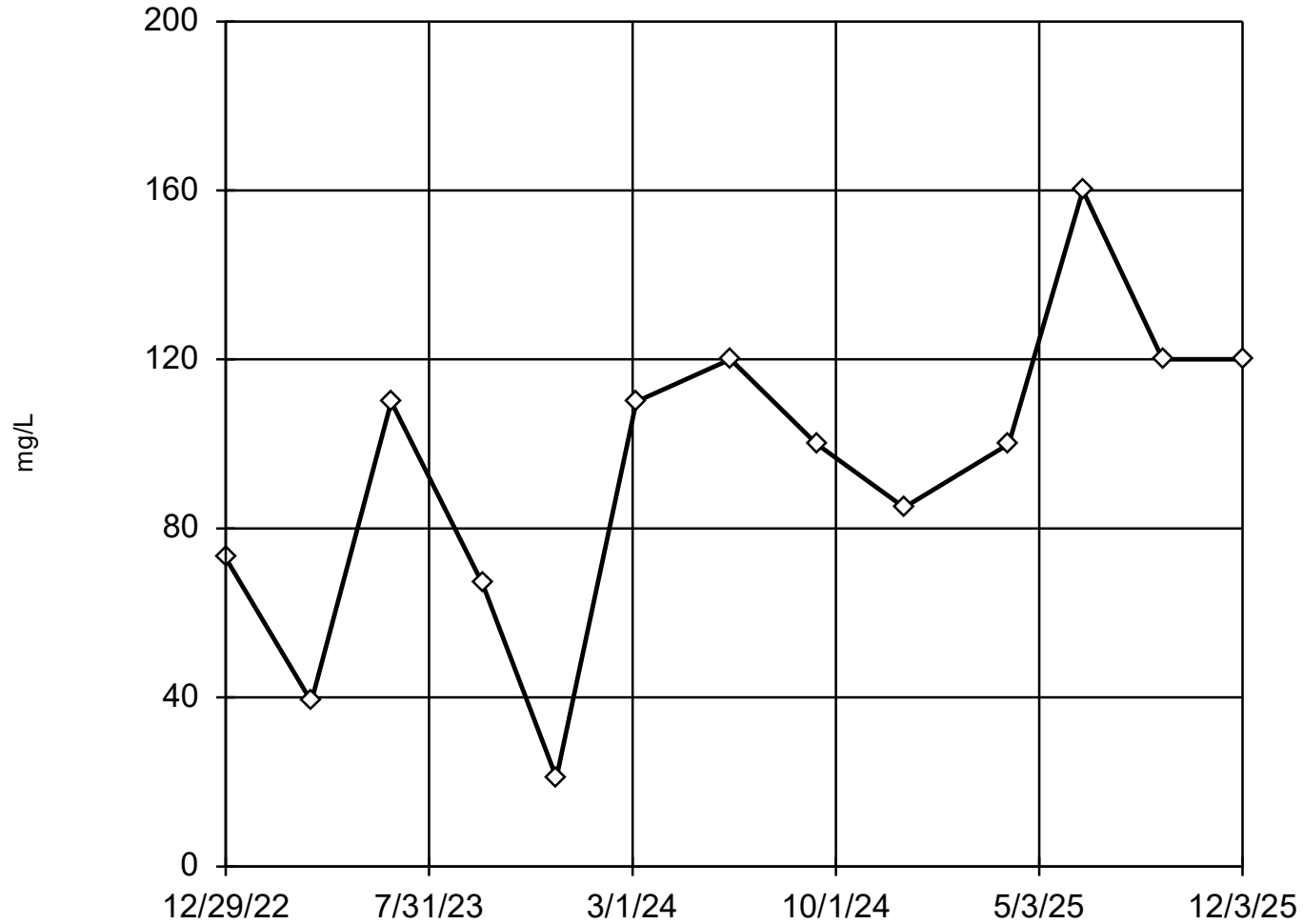
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8871
Critical = 0.883
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Sulfate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-4S



n = 13

No statistical outliers.
1 value manually flagged as an outlier.
Testing for 2 low outliers.
Mean = 94.23.
Std. Dev. = 37.16.
39: c = 0.4198
tab1 = 0.521.
Alpha = 0.05.
21: c = 0.4646
tab1 = 0.521.
Alpha = 0.05.

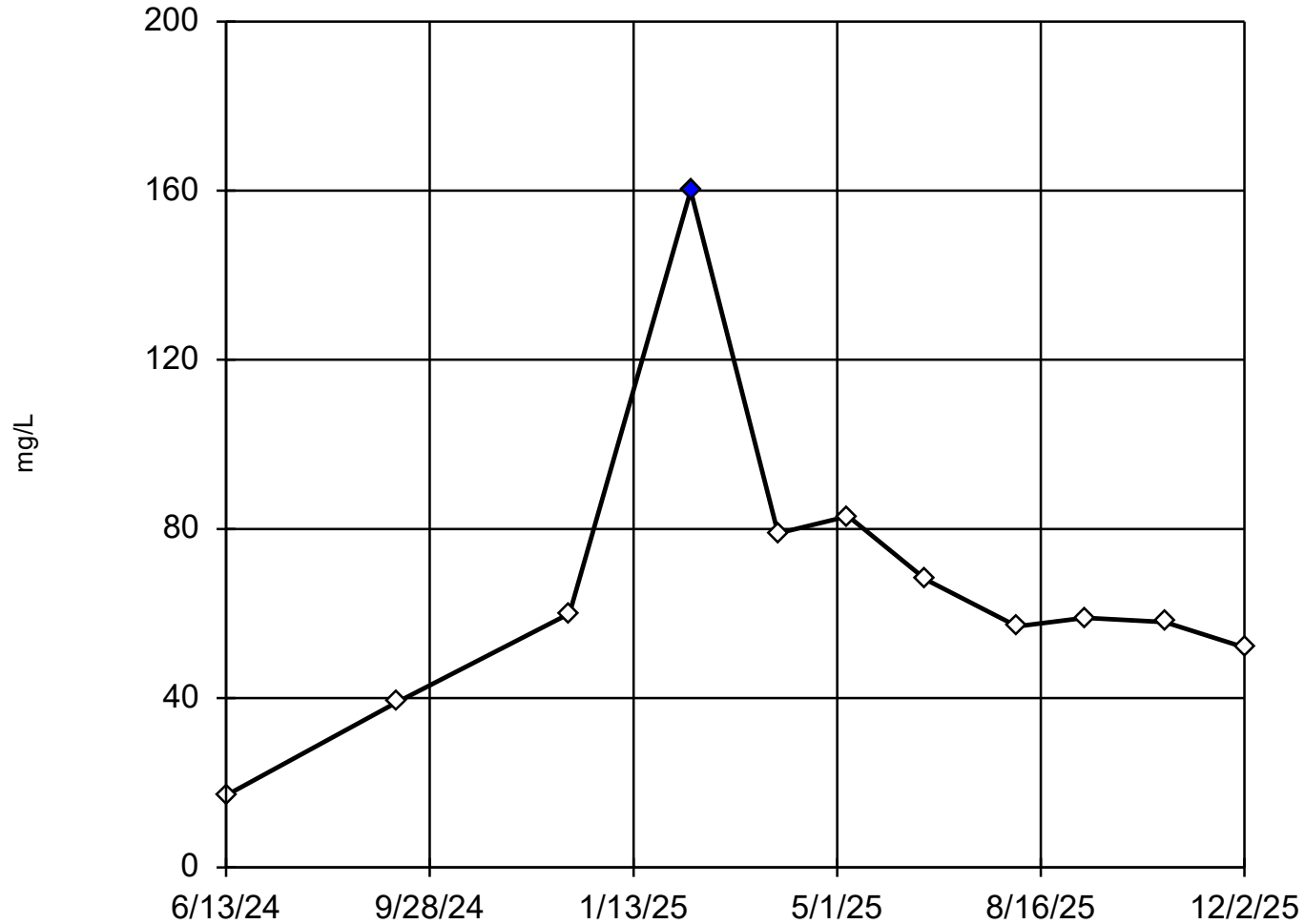
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9606
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-5S



n = 11

Statistical outlier is drawn as solid.
1 value manually flagged as an outlier.
Testing for 1 high and 1 low outliers.
Mean = 66.55.
Std. Dev. = 35.85.
160 (o): c = 0.6694
tab1 = 0.576.
17 (z): c = 0.5303
tab1 = 0.576.
Alpha = 0.05.

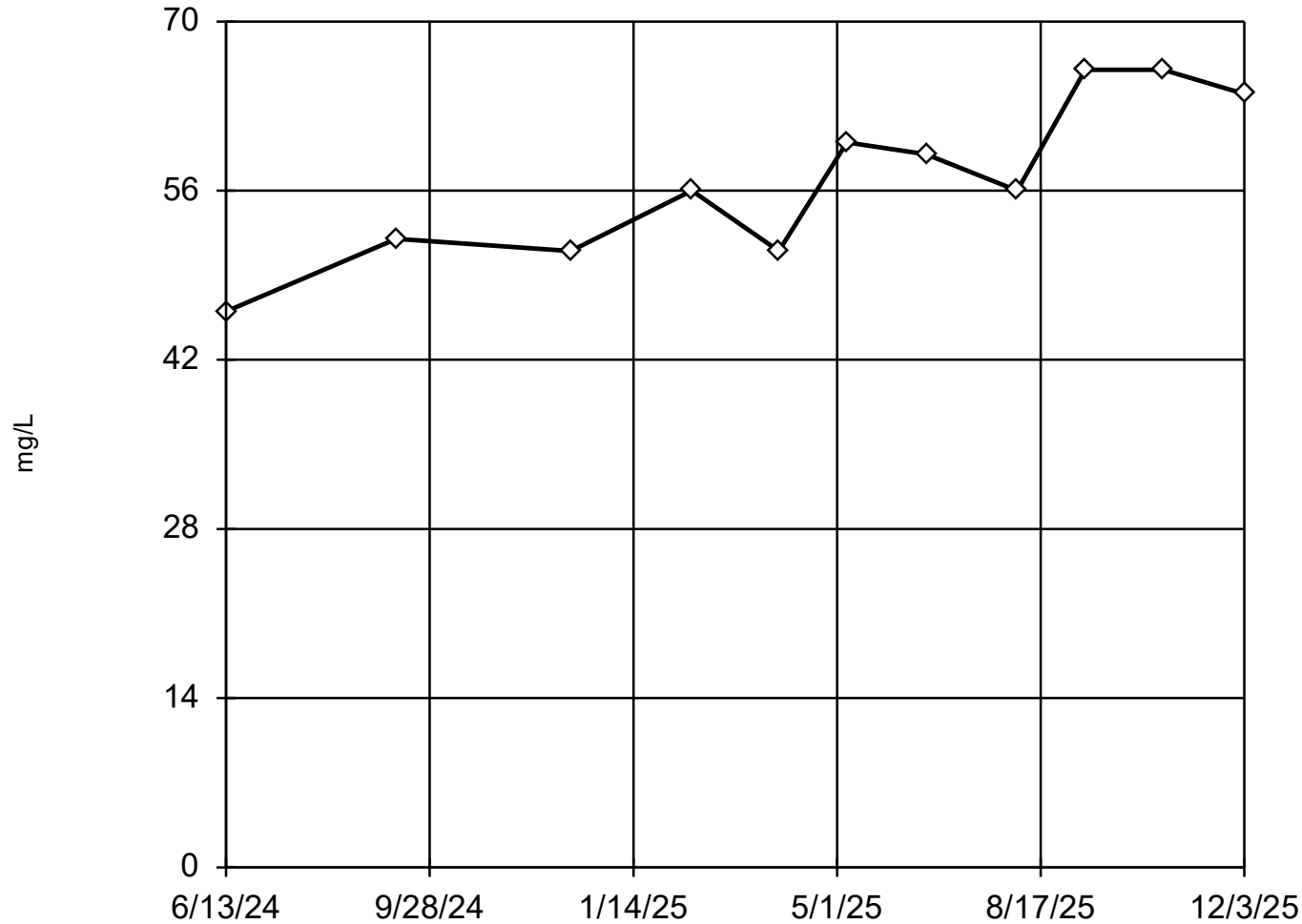
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9469
Critical = 0.859
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Sulfate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-6S



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 57, std. dev. 6.663,
critical Tn 2.234

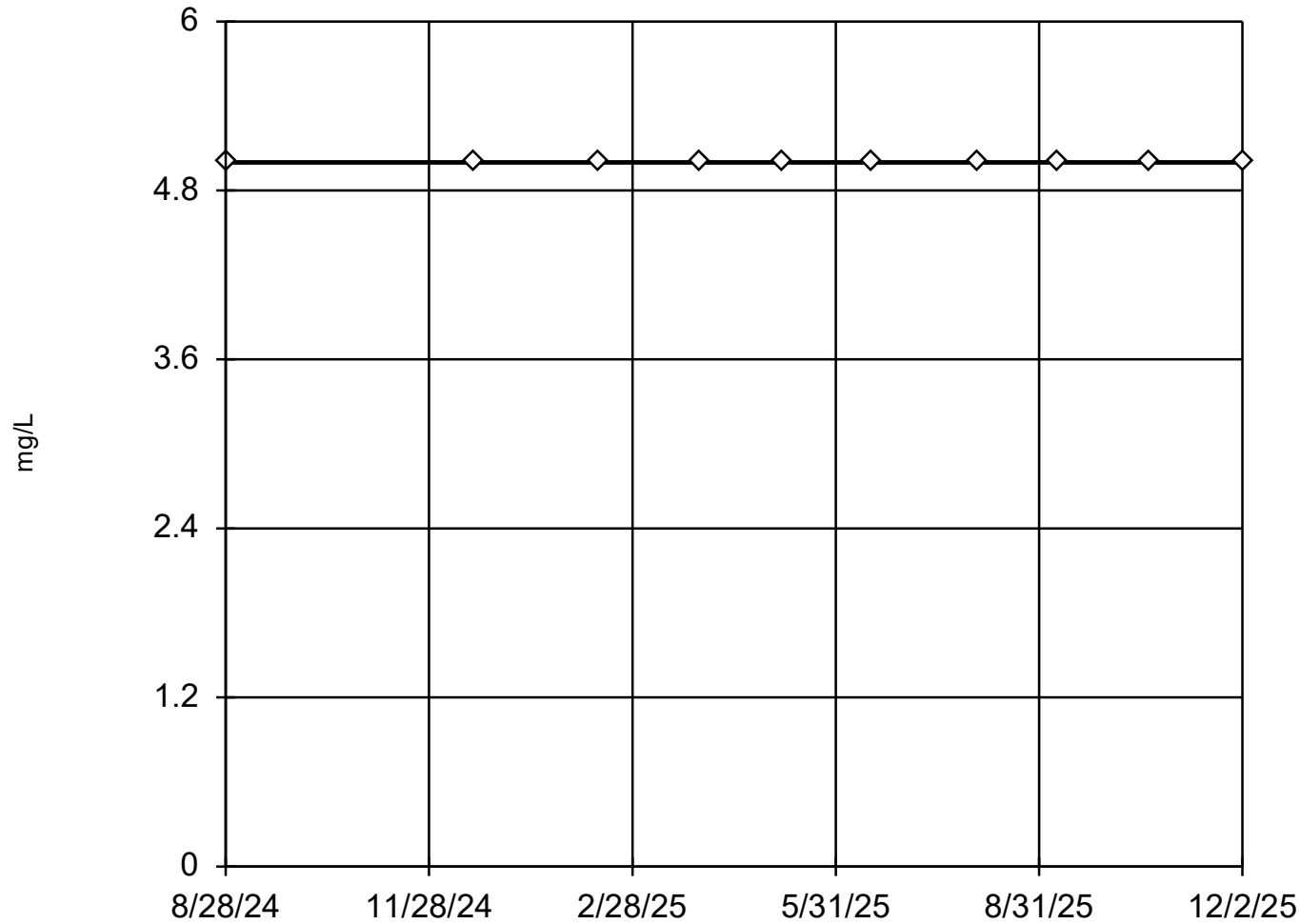
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9432
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-7D



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

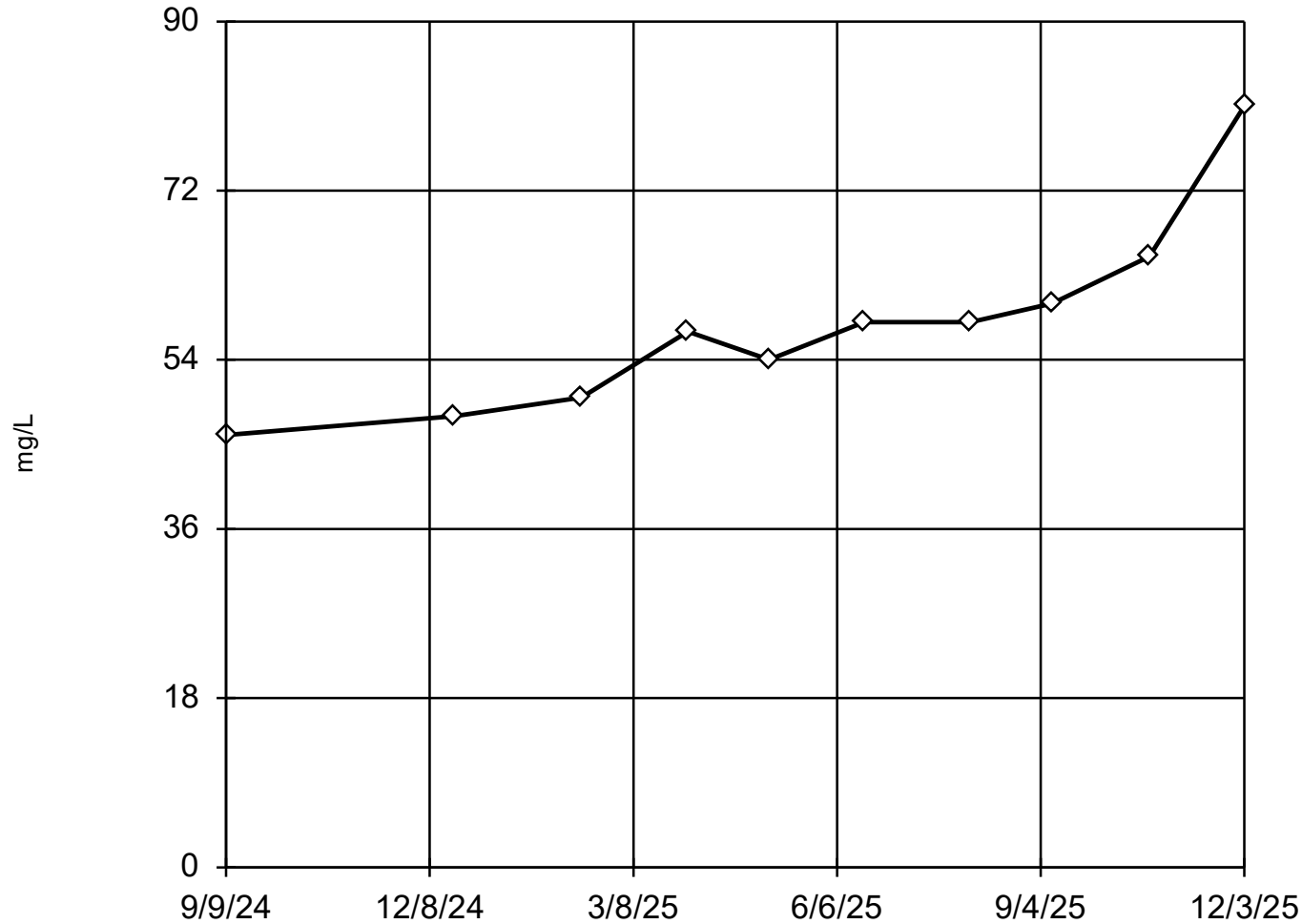
All values are the same.

Constituent: Sulfate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-8D



n = 10

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 57.7, std. dev. 10.03,
critical Tn 2.176

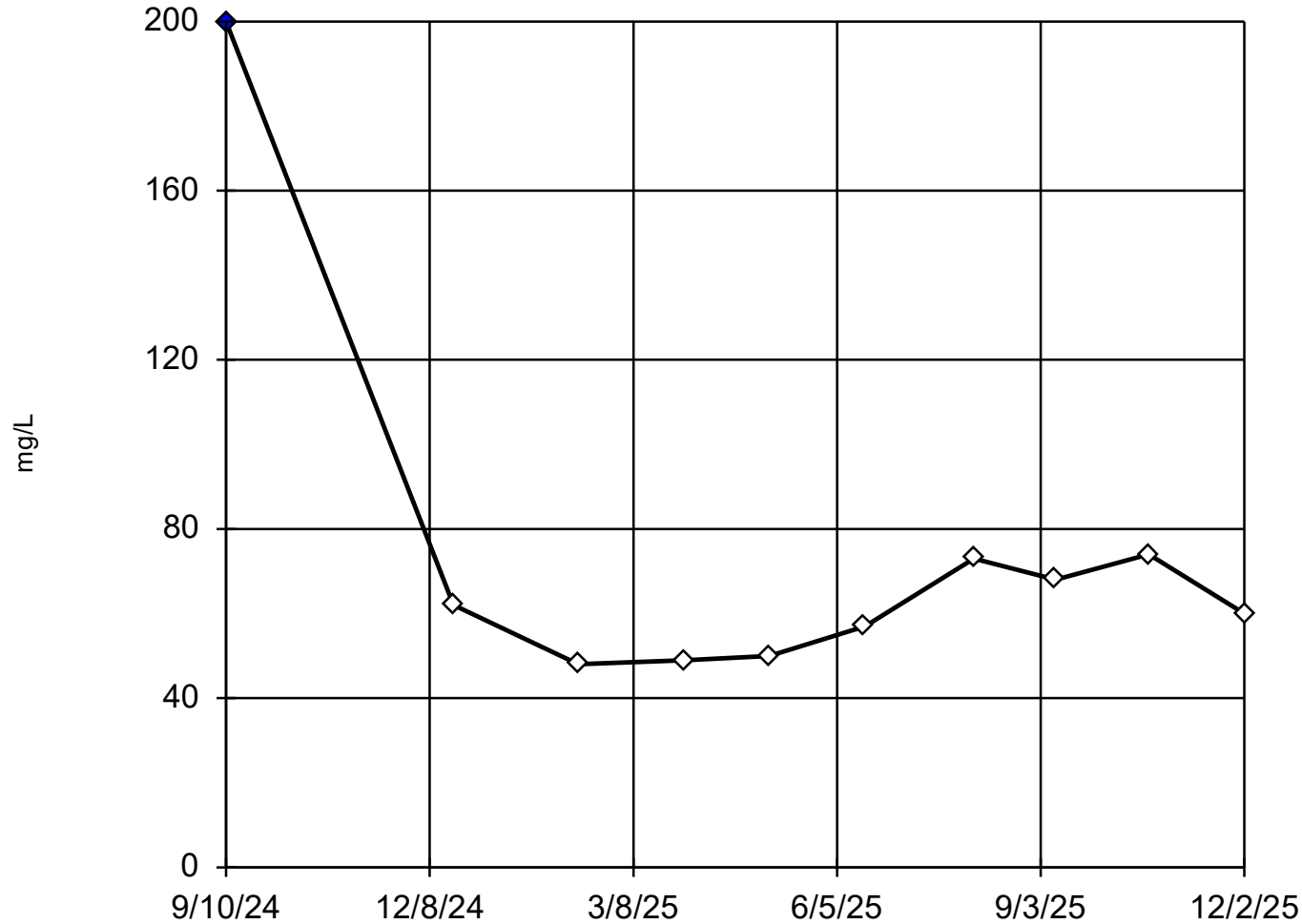
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8871
Critical = 0.869
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-9D



n = 10

Statistical outlier is drawn as solid.
1 value manually flagged as an outlier.
Testing for 1 high outlier.
Mean = 74.1.
Std. Dev. = 45.24.
200 (oz): c = 0.8344
tab1 = 0.477.
Alpha = 0.05.

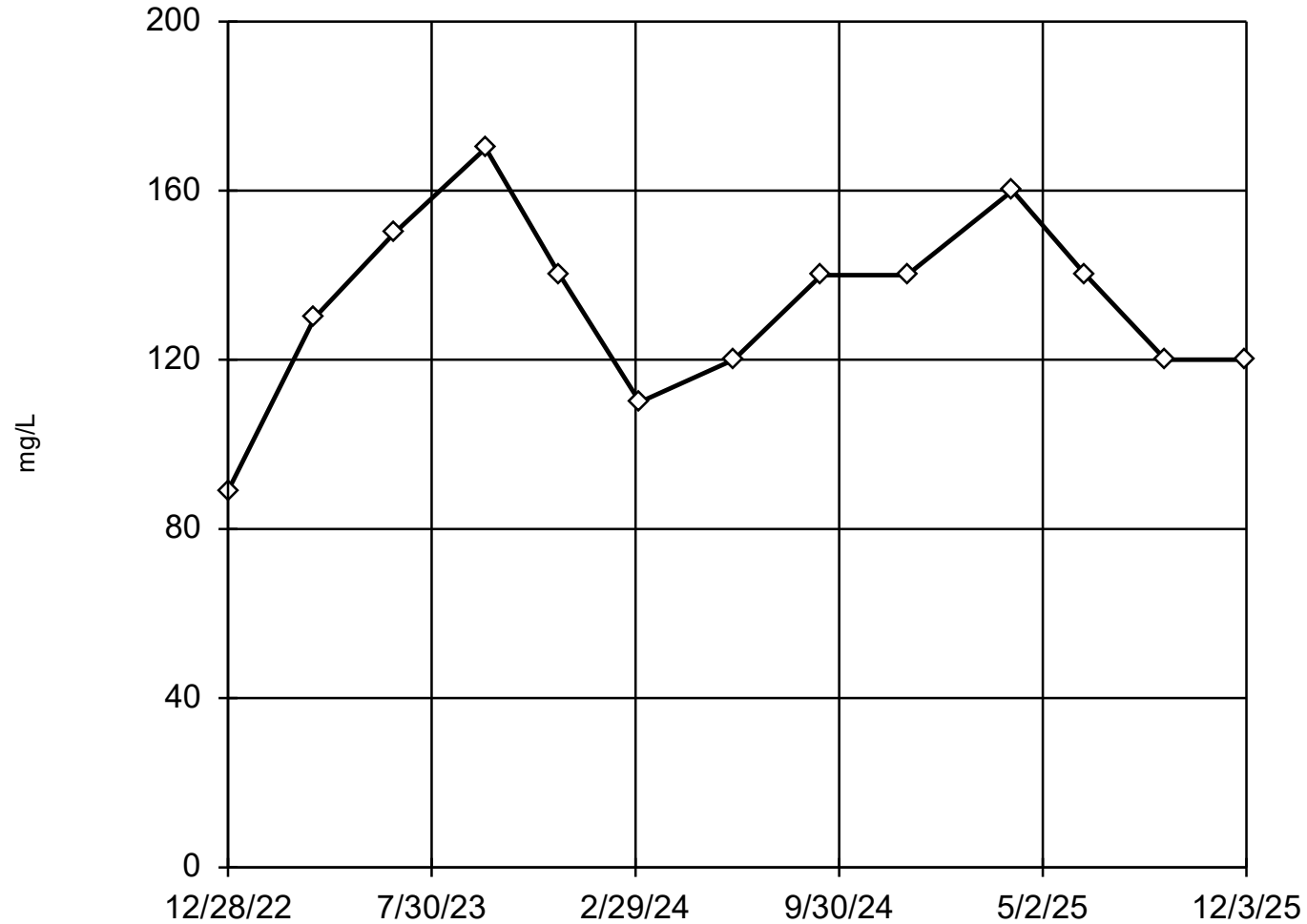
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9118
Critical = 0.859
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Sulfate Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-2S



n = 13

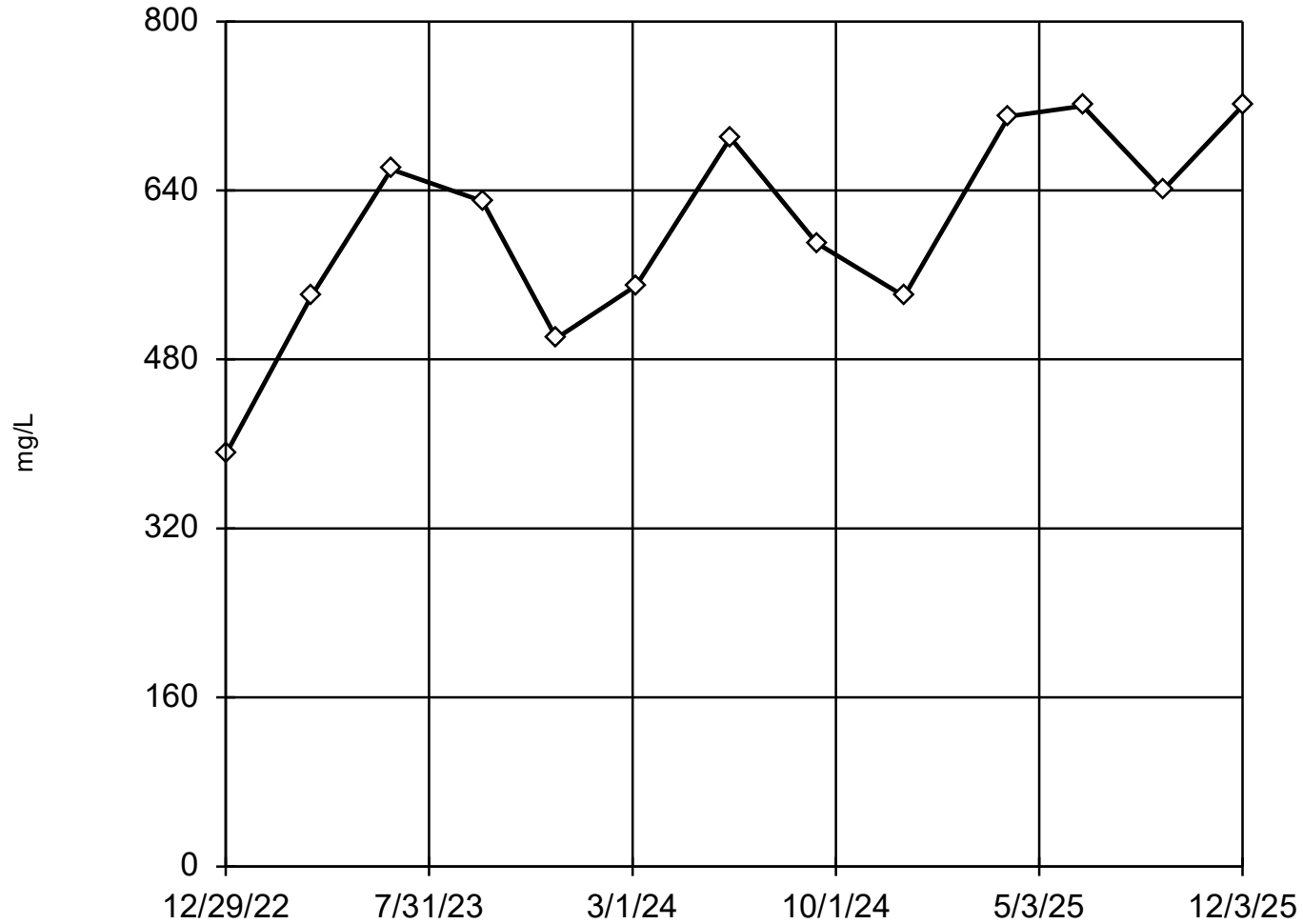
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 133, std. dev. 21.53,
critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9688
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: TDS Analysis Run 3/25/2026 10:59 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-4S



n = 13

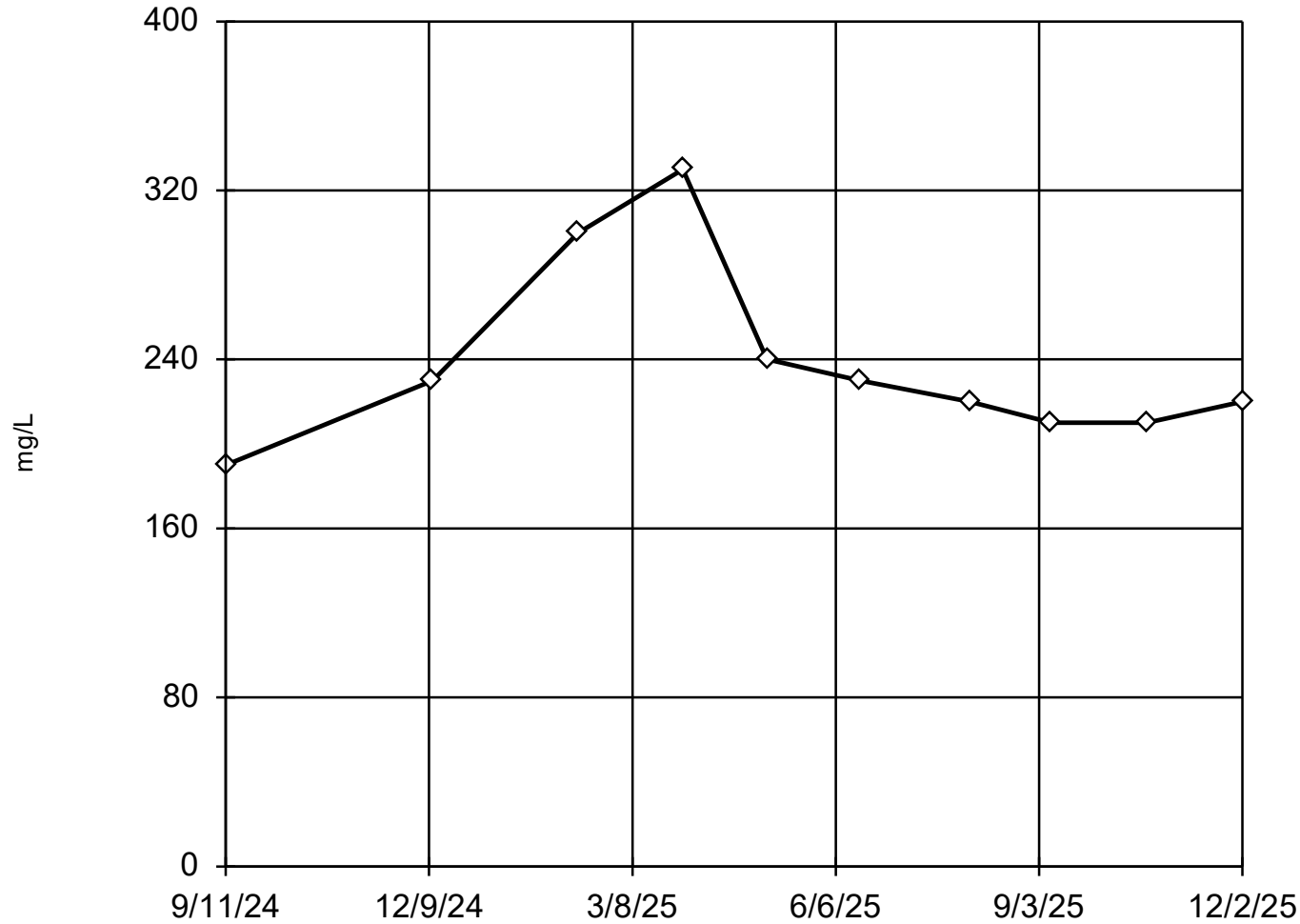
No statistical outliers.
Testing for 1 low outlier.
Mean = 606.2.
Std. Dev. = 99.38.
390: c = 0.4545
tab1 = 0.521.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9144
Critical = 0.883
The distribution was found
to be normally distrib-
uted.

Constituent: TDS Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-5S



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

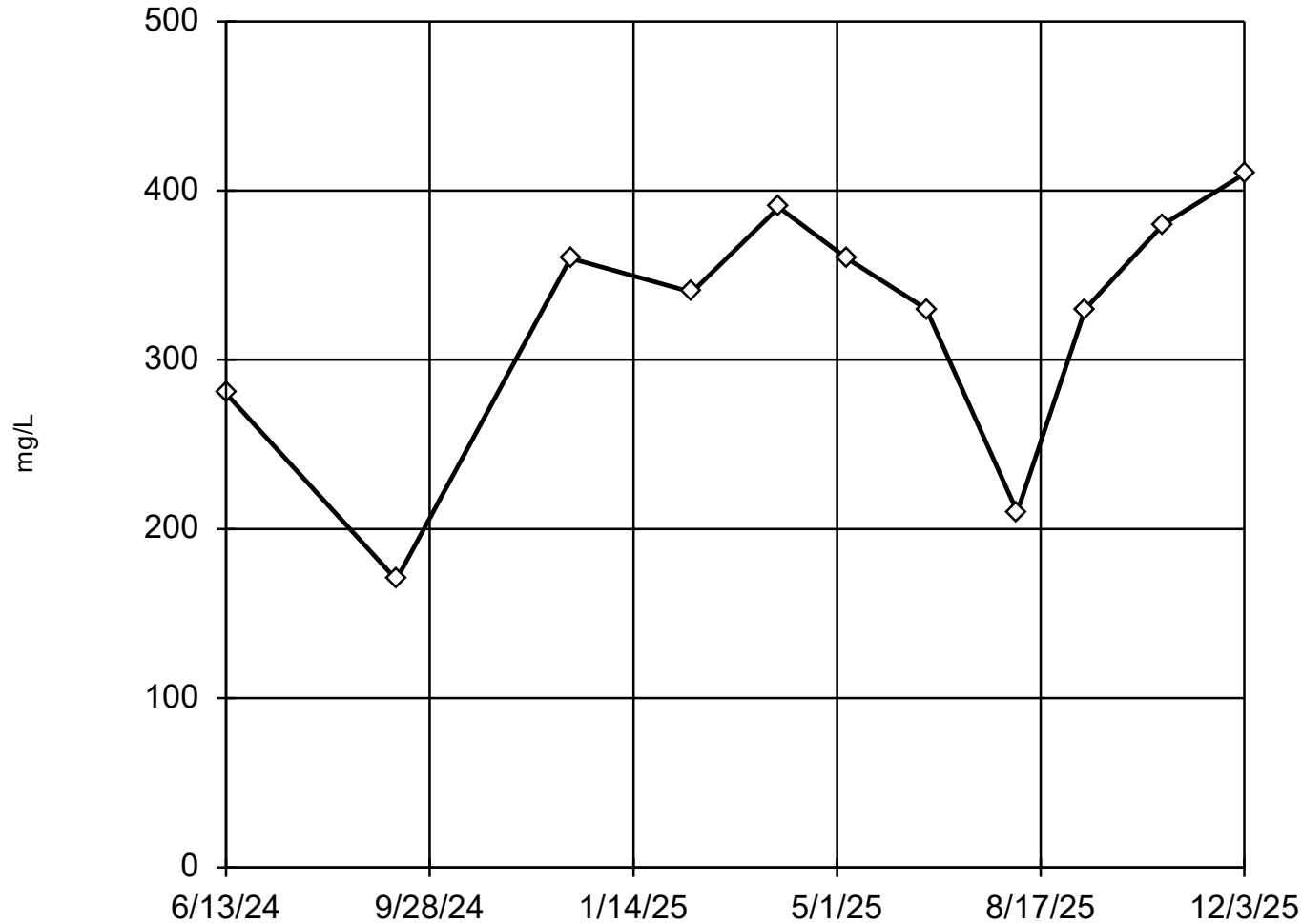
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 559.8, low cutoff = 100.7, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-6S



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 323.6, std. dev. 75.14, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8814
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: TDS Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-7D



n = 10

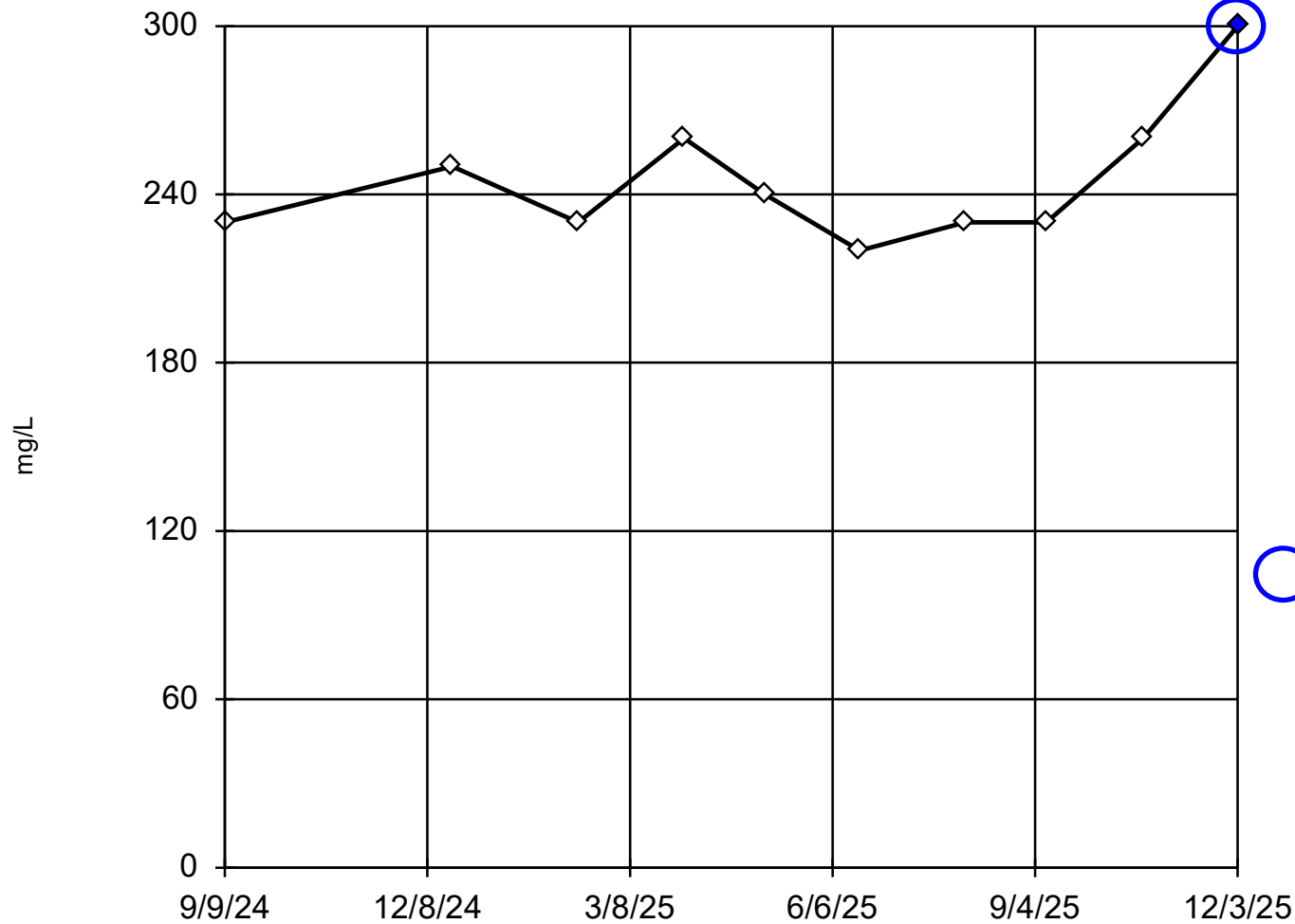
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 134, std. dev. 19.55,
critical Tn 2.176

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9401
Critical = 0.869
The distribution was found to be normally distributed.

Constituent: TDS Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-8D



n = 10

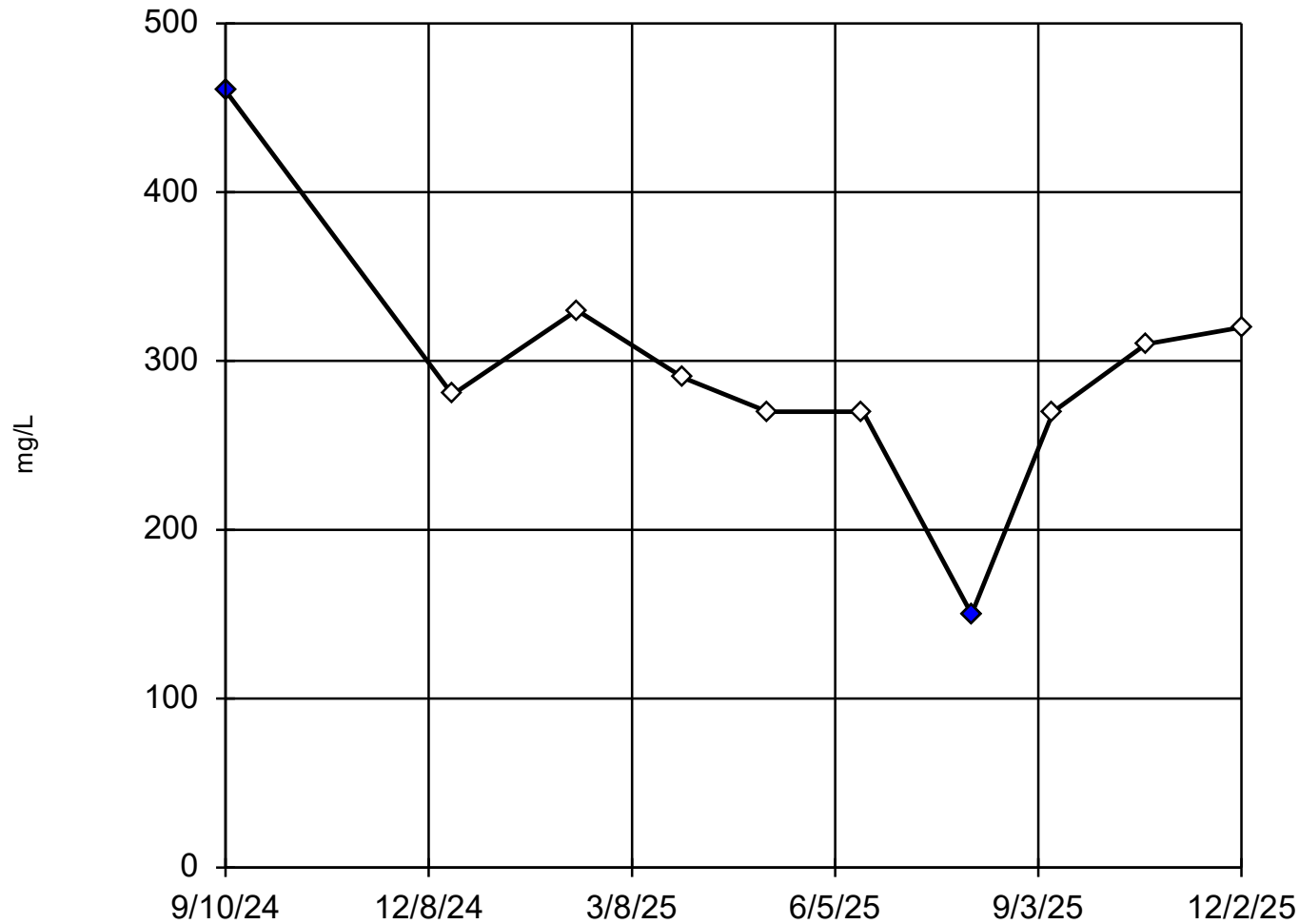
Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 245.
Std. Dev. = 23.69.
300: c = 0.5714
tabl = 0.477.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8633
Critical = 0.859
The distribution, after removal of suspect value, was found to be normally distributed.

○ Not removing as an outlier

Dixon's Outlier Test

MW-9D



n = 10

Statistical outliers are drawn as solid.
1 value manually flagged as an outlier.
Testing for 1 high and 1 low outliers.
Mean = 295.
Std. Dev. = 76.34.
460 (oz): c = 0.6842
tab1 = 0.477.
150: c = 0.6667
tab1 = 0.477.
Alpha = 0.05.

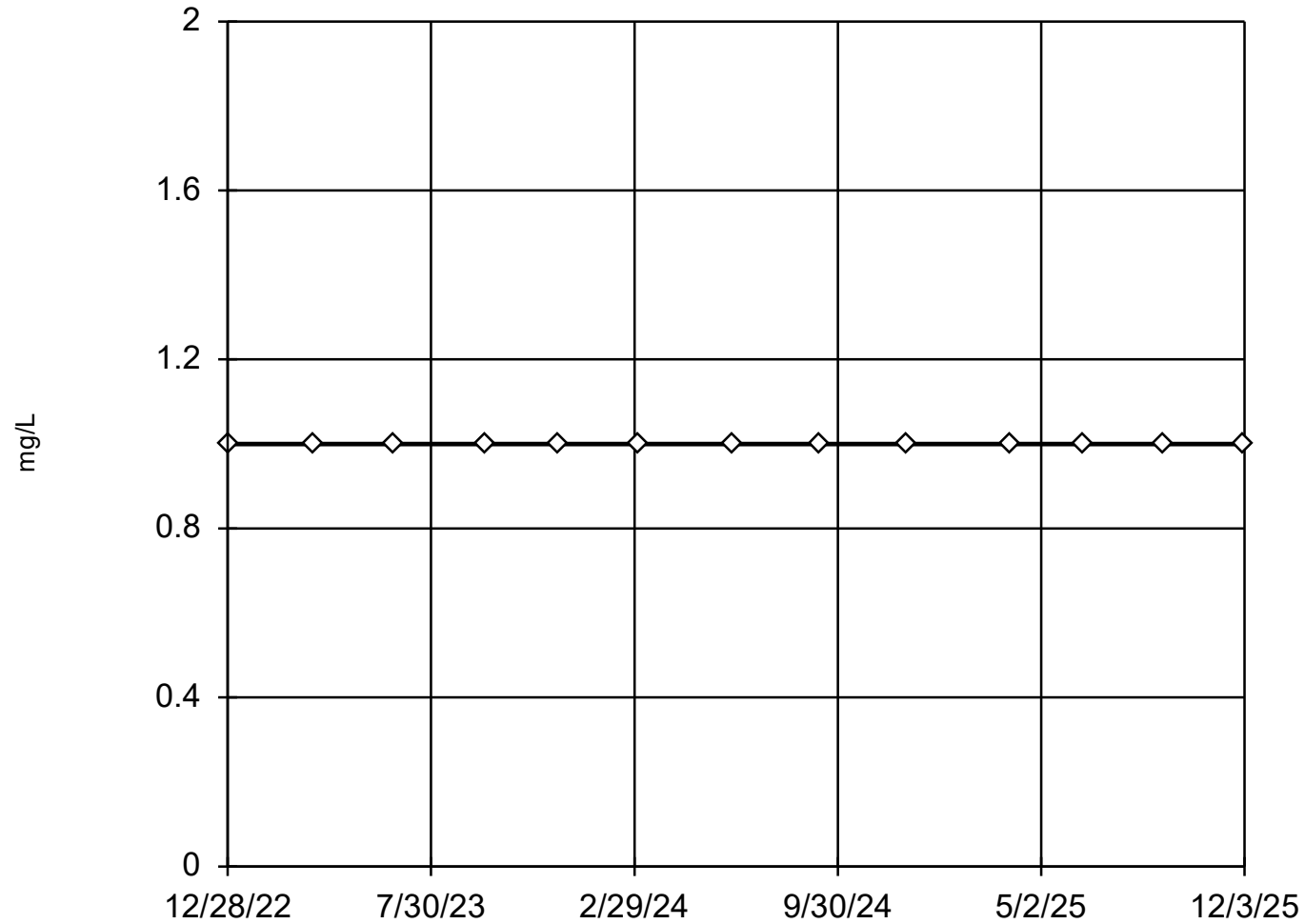
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8578
Critical = 0.851
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: TDS Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-2S



n = 13

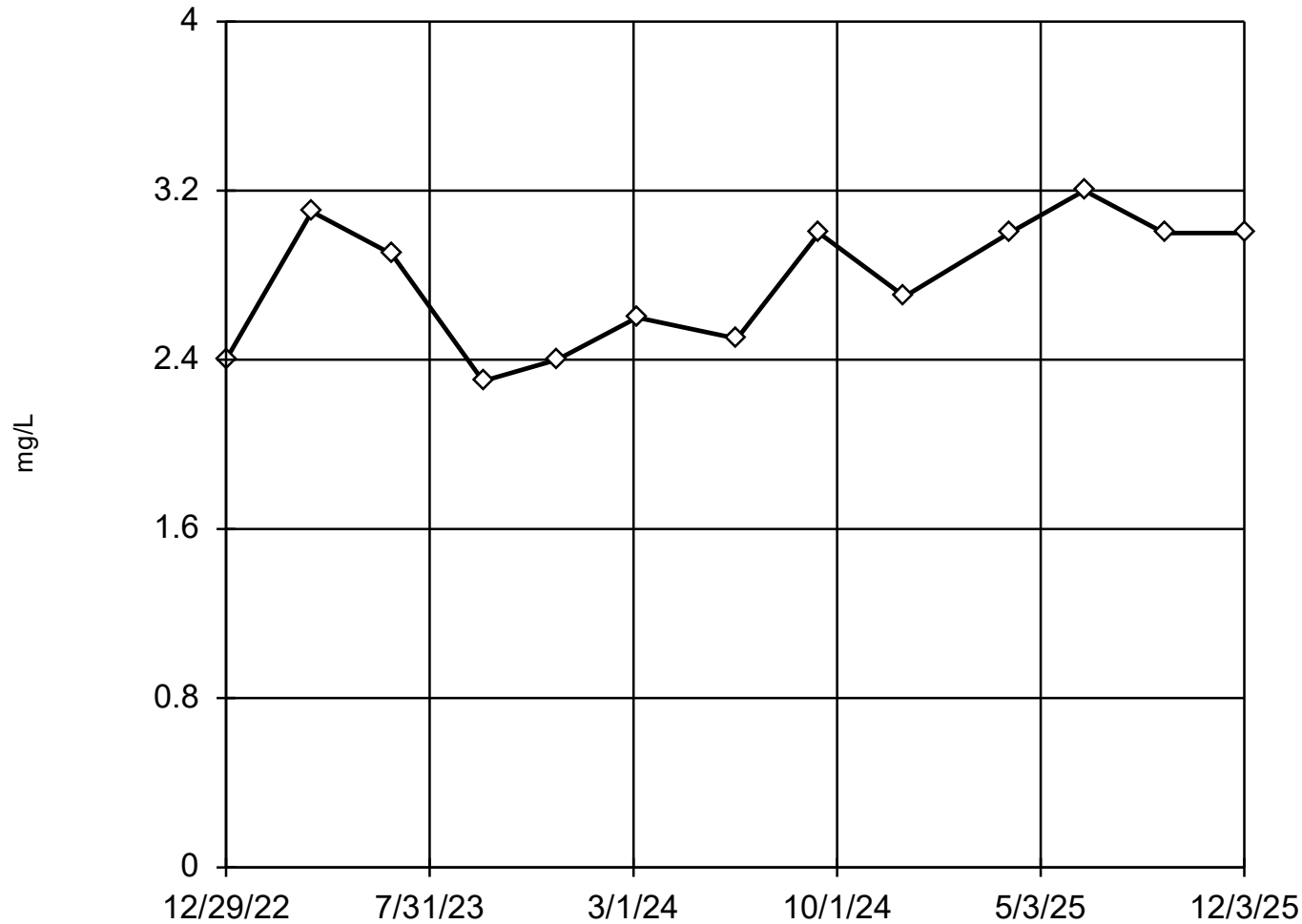
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

All values are the same.

Constituent: Total Organic Carbon Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-3S



n = 13

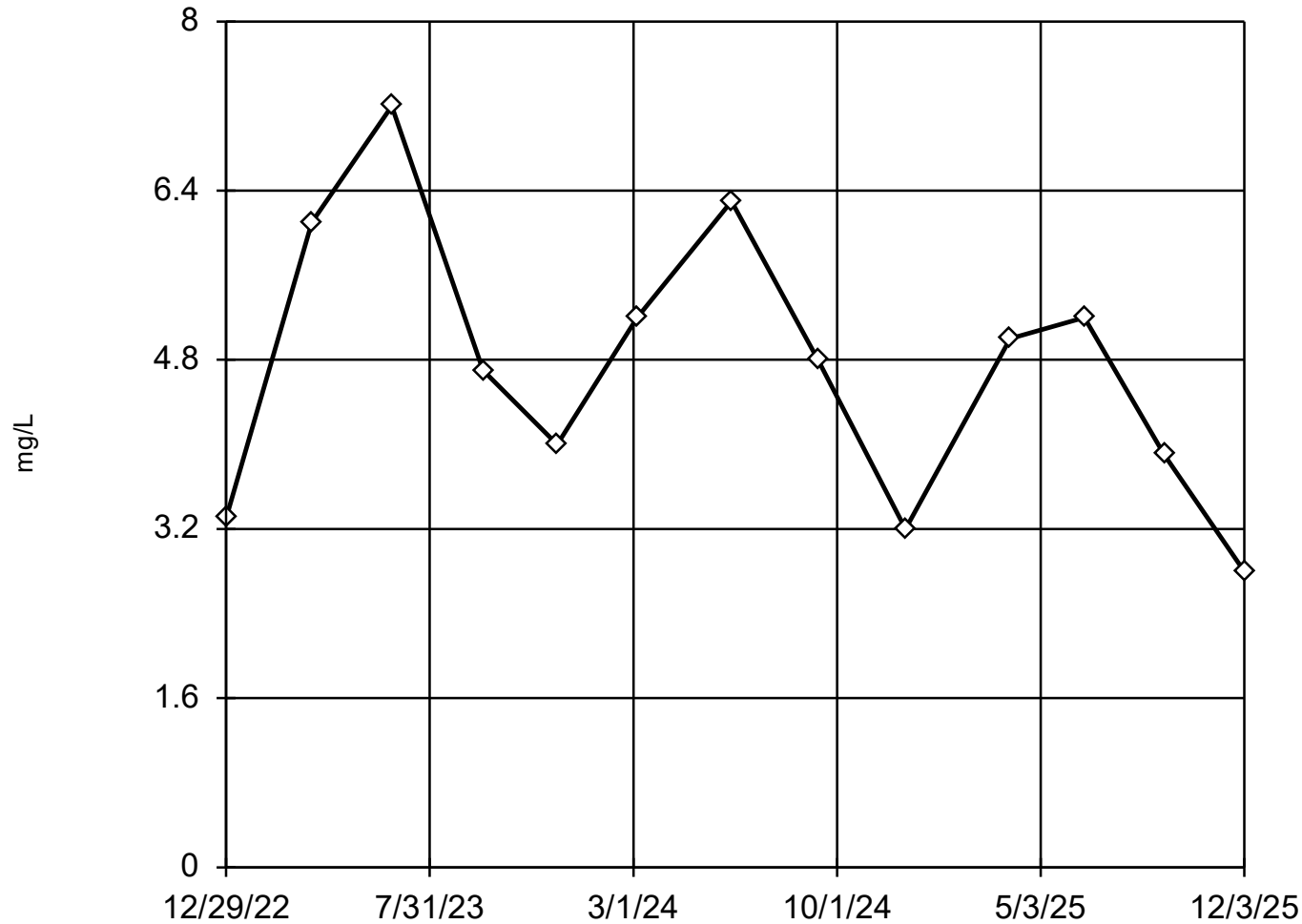
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.777, std. dev. 0.3059, critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8998
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Total Organic Carbon Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-4S



n = 13

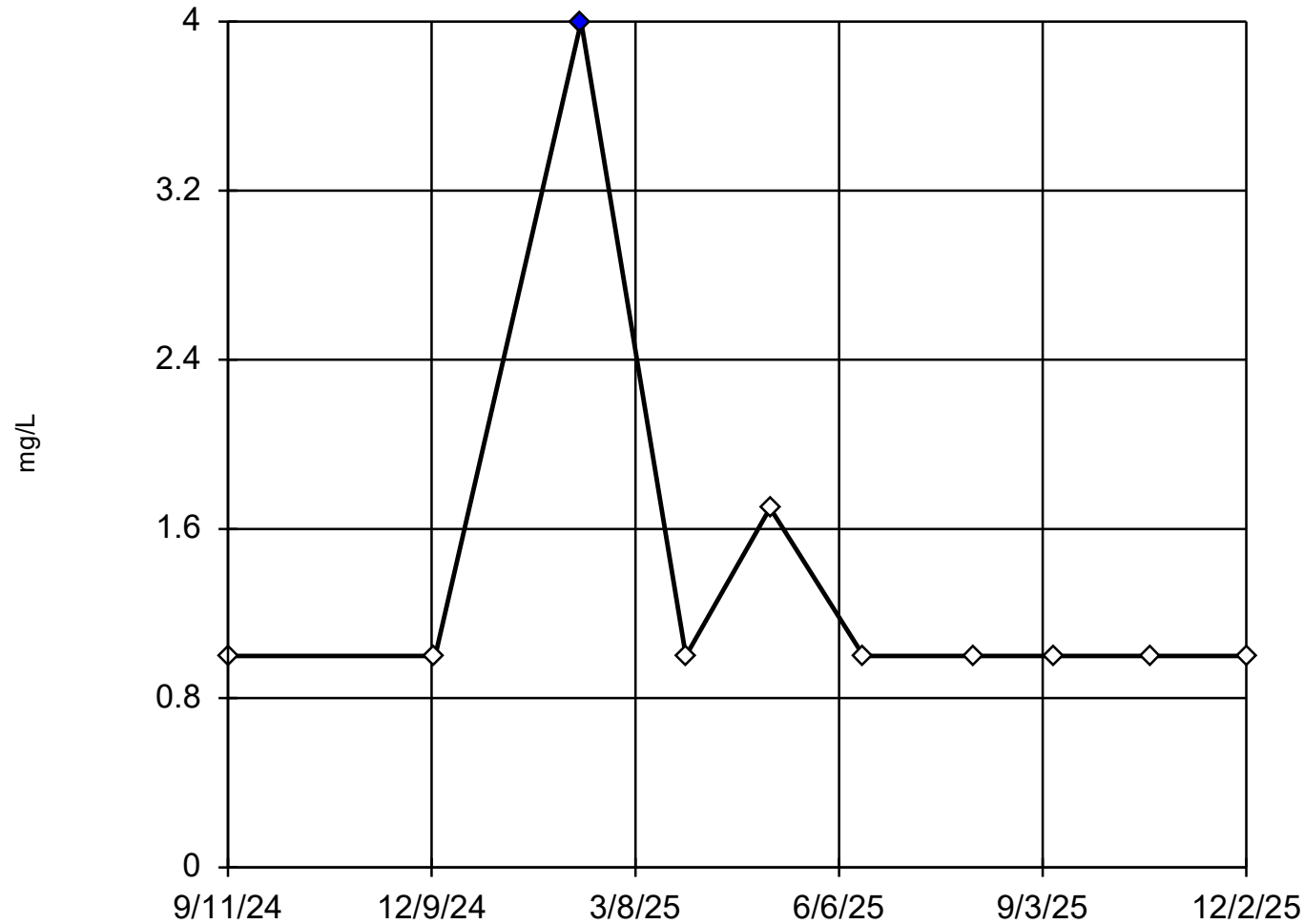
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 4.746, std. dev. 1.3, critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9689
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Total Organic Carbon Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-5S



n = 10

Outlier is drawn as solid. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

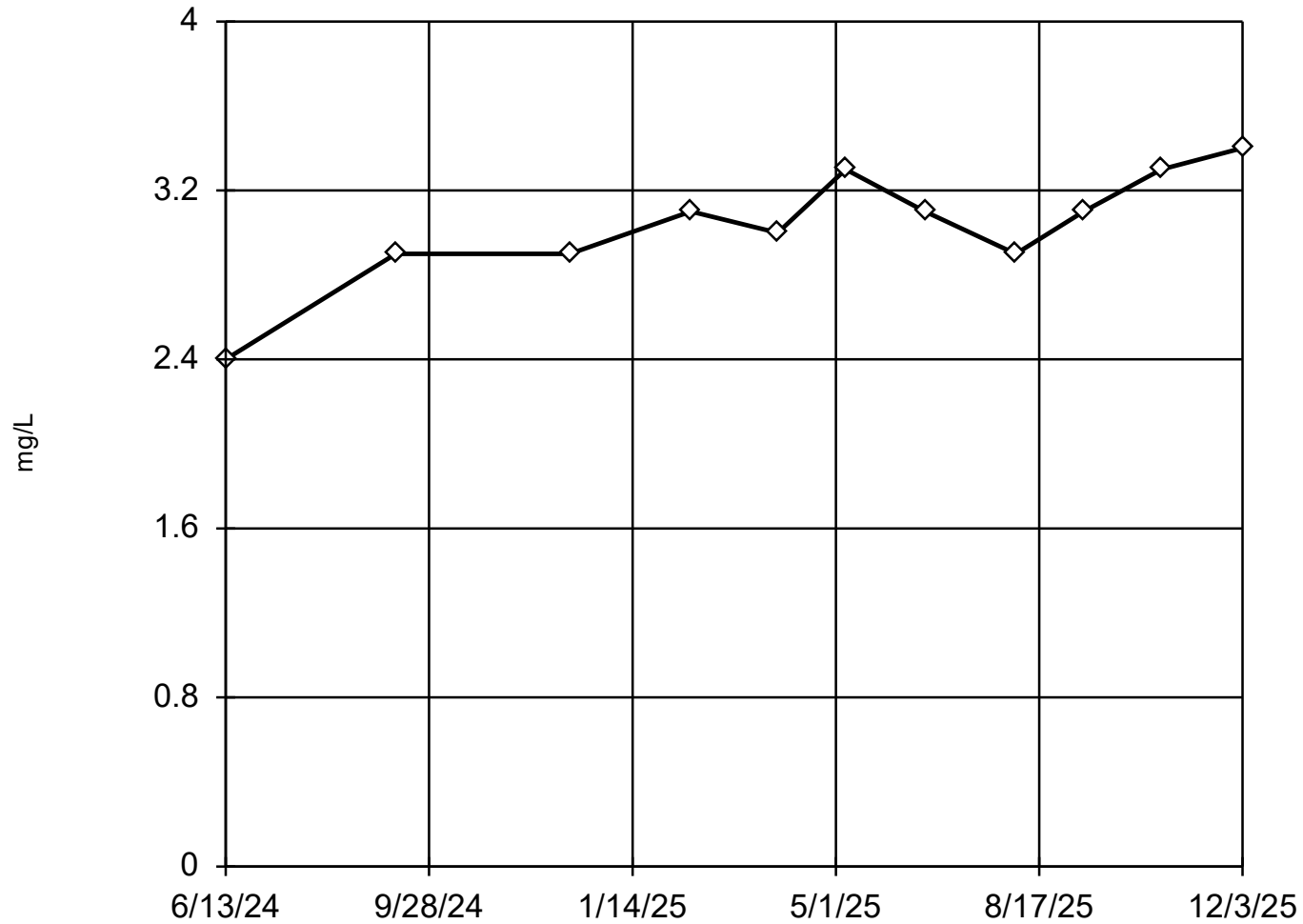
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 2.89, low cutoff = 0.4512, based on IQR multiplier of 3.

Constituent: Total Organic Carbon Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Dixon's Outlier Test

MW-6S



n = 11

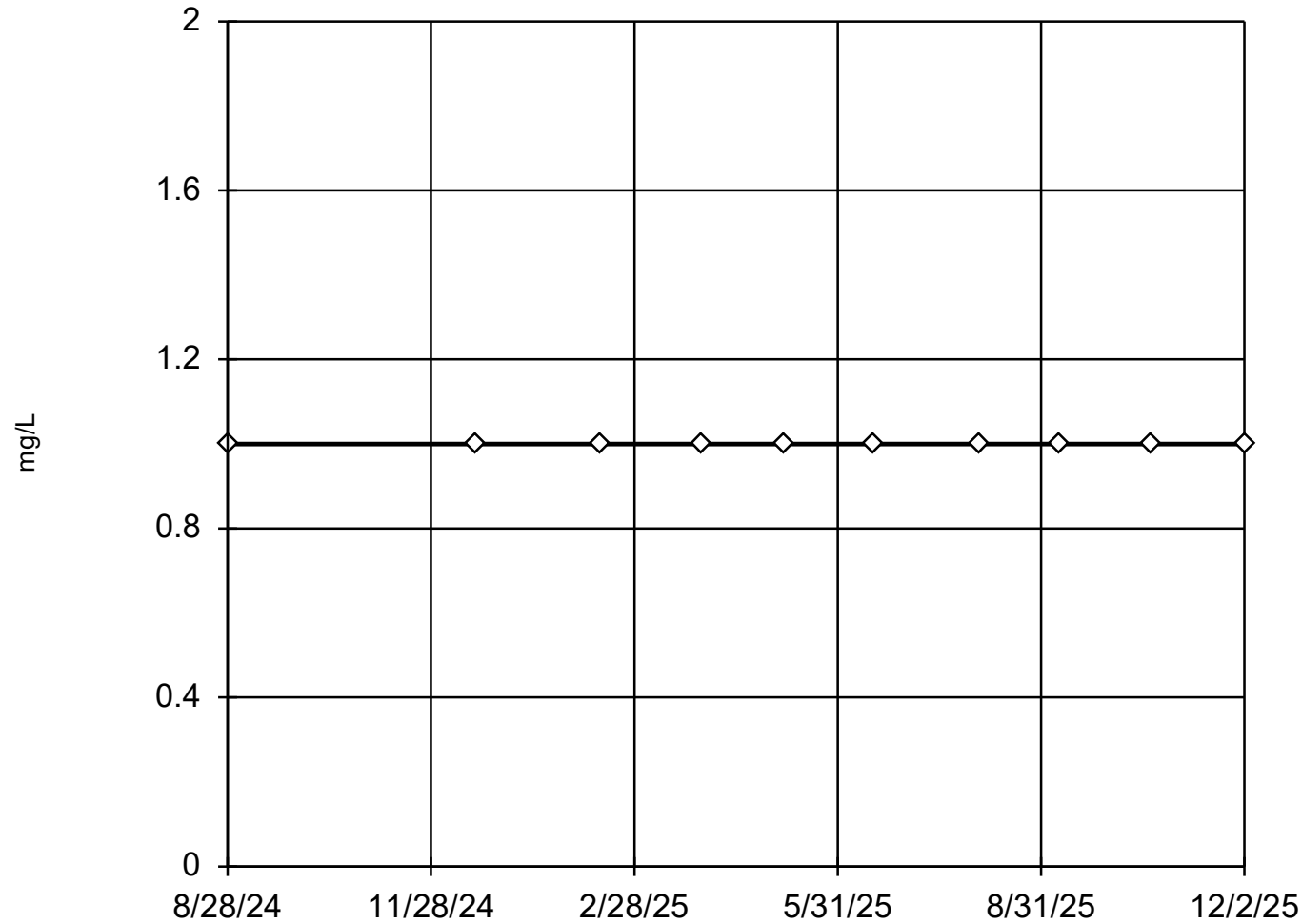
No statistical outliers.
Testing for 1 low outlier.
Mean = 3.036.
Std. Dev. = 0.273.
2.4 (z): c = 0.5556
tab1 = 0.576.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8891
Critical = 0.869
The distribution was found
to be normally distrib-
uted.

Constituent: Total Organic Carbon Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-7D



n = 10

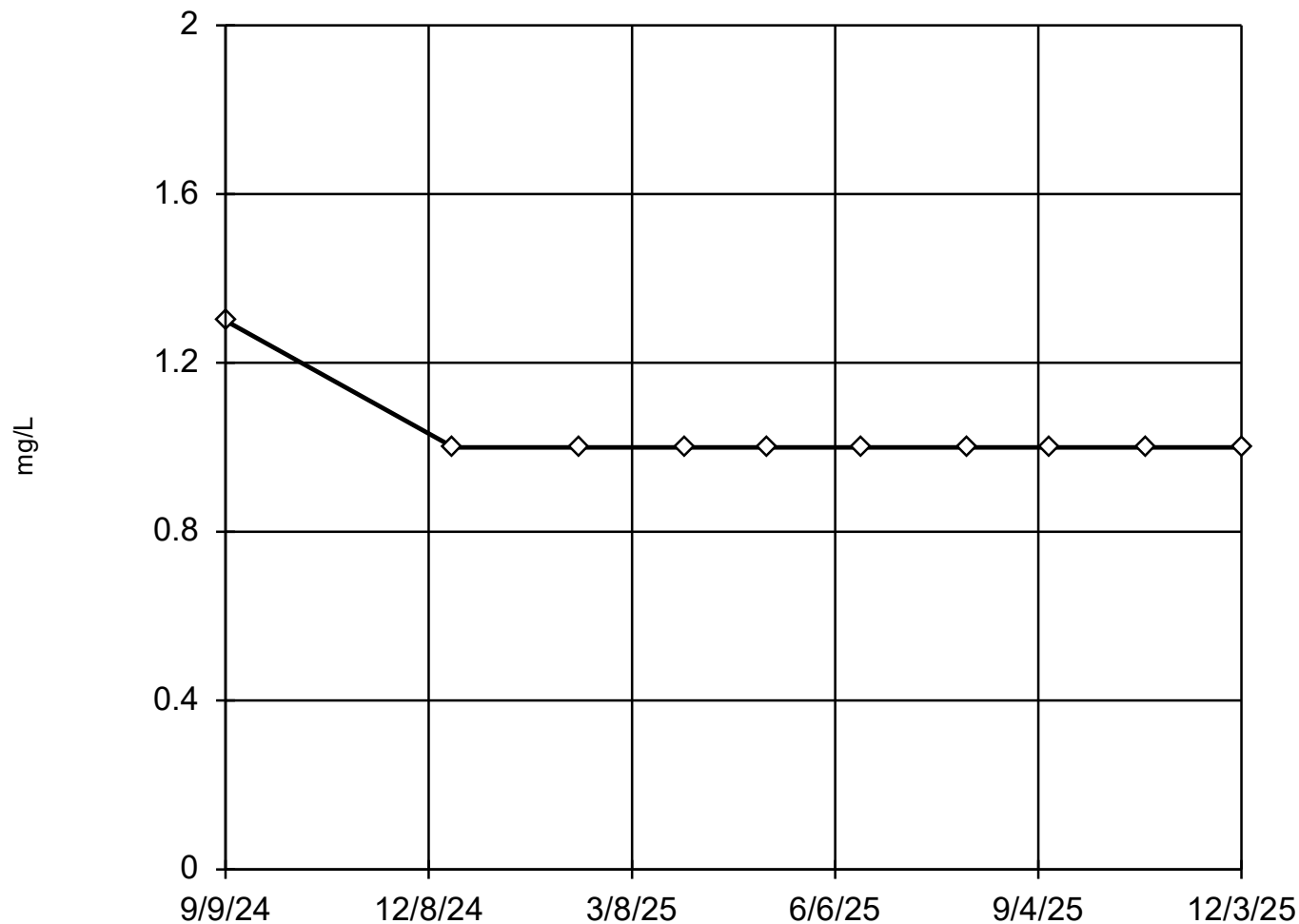
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

All values are the same.

Constituent: Total Organic Carbon Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Tukey's Outlier Screening

MW-8D



n = 10

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

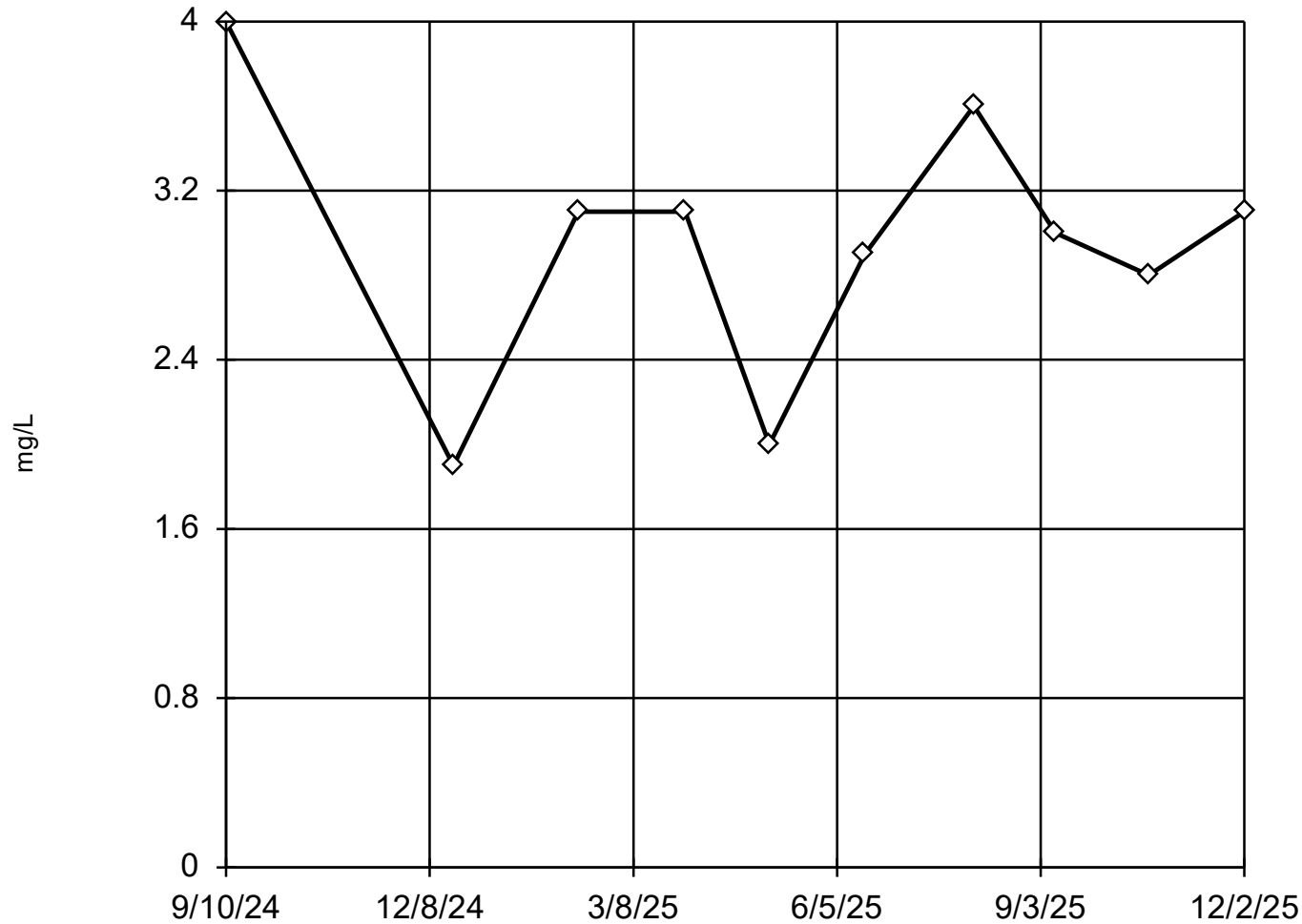
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Total Organic Carbon Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

EPA Screening (suspected outliers for Dixon's Test)

MW-9D



n = 10

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.95, std. dev. 0.6346, critical Tn 2.176

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9182
Critical = 0.869
The distribution was found to be normally distributed.

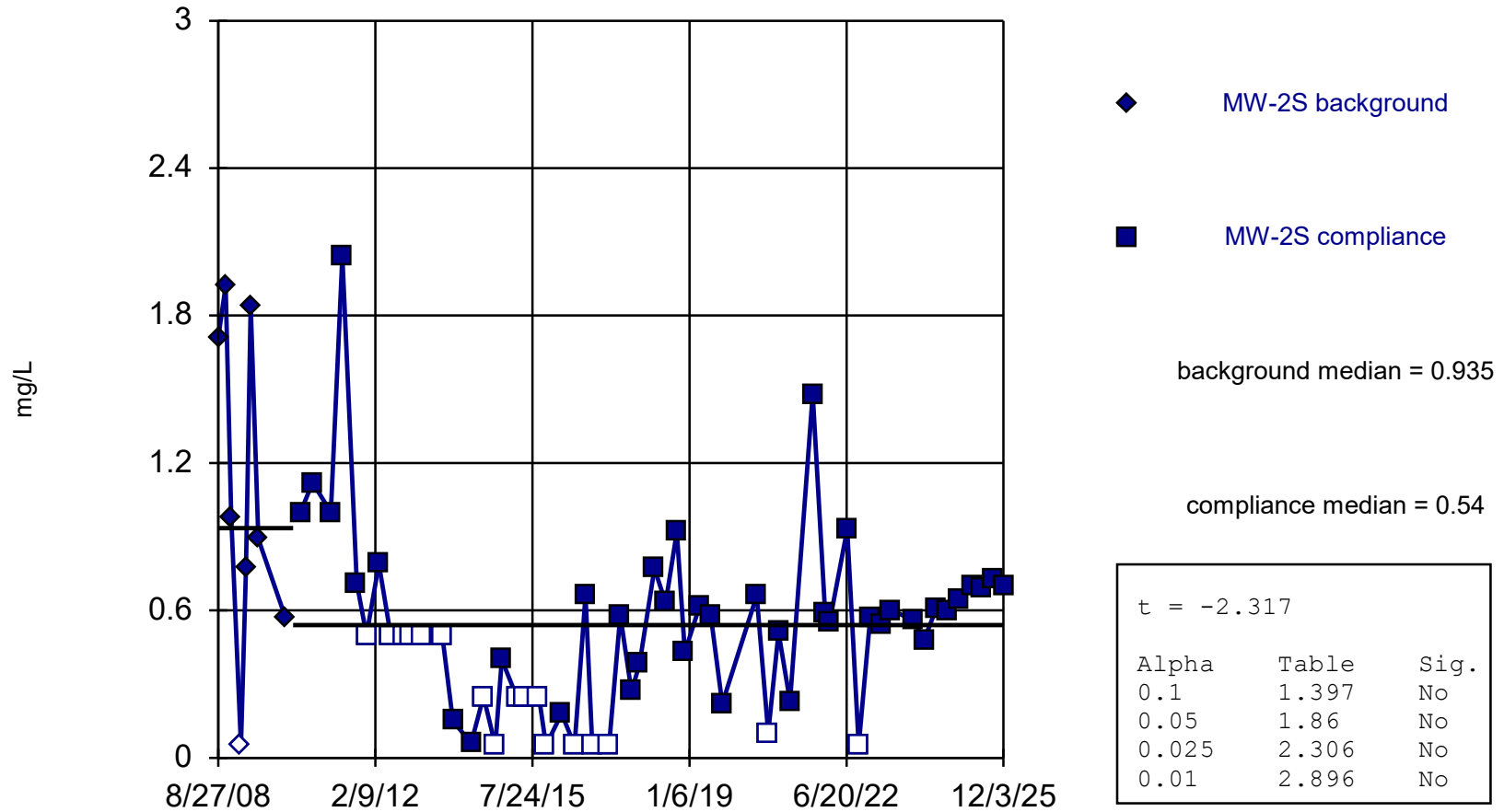
Constituent: Total Organic Carbon Analysis Run 3/25/2026 11:00 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Attachment C

Welch's/Mann-Whitney
Test Results

Welch's t-test

MW-2S



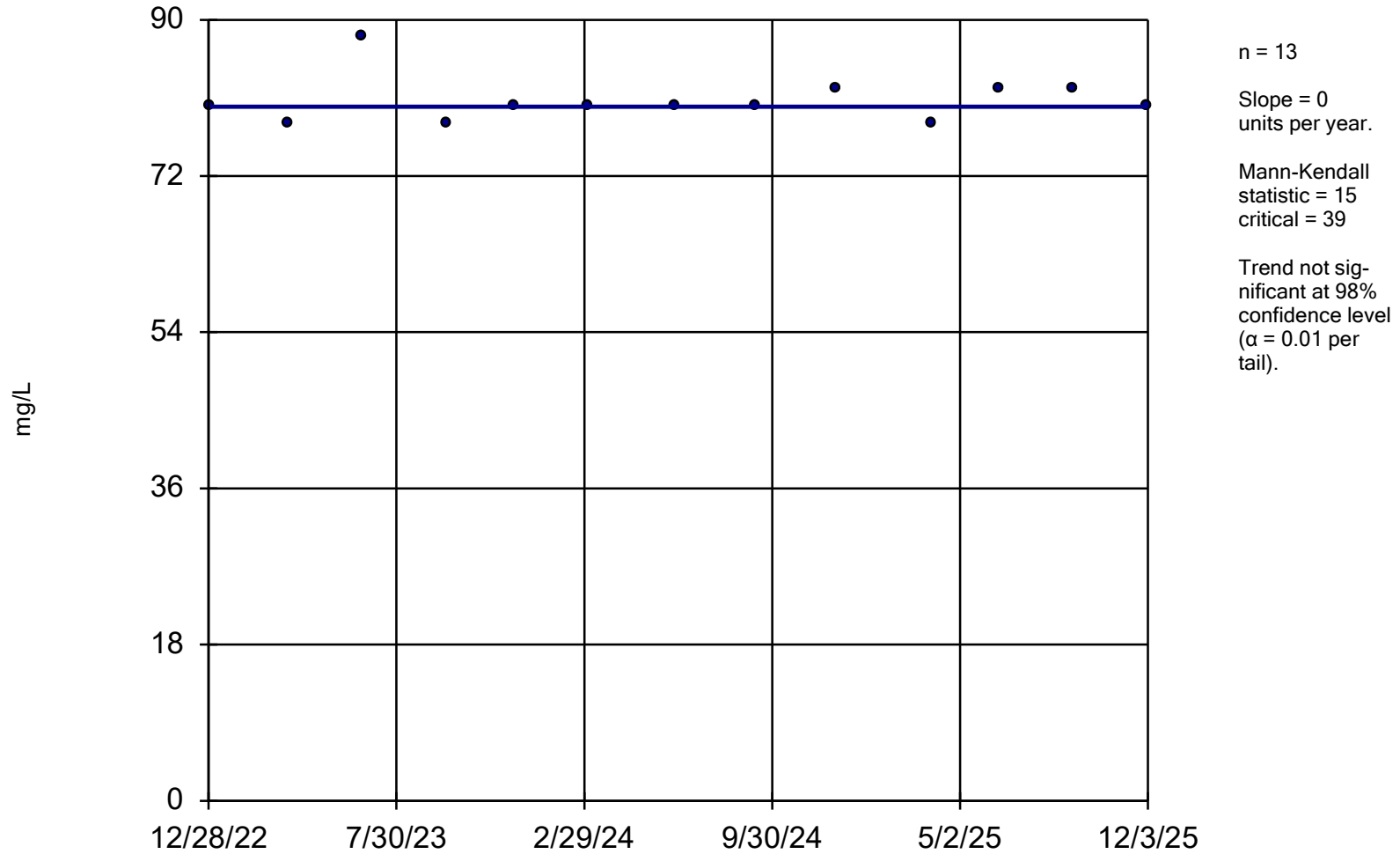
Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9224, critical = 0.818.

Attachment D

Sen's Slope/Mann-Kendall
Trend Tests

Sen's Slope Estimator

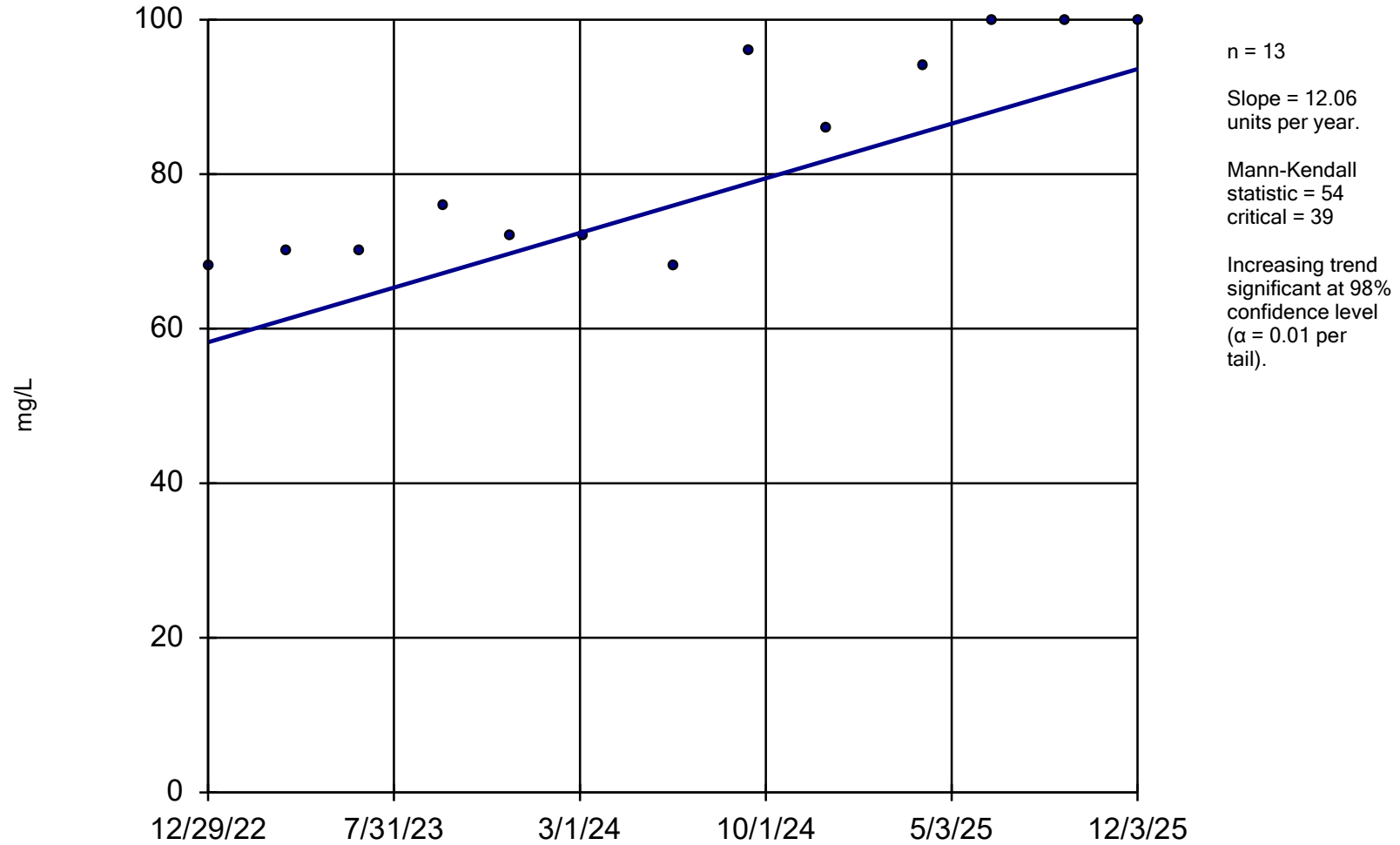
MW-2S



Constituent: Alkalinity, Total Analysis Run 3/22/2026 4:10 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

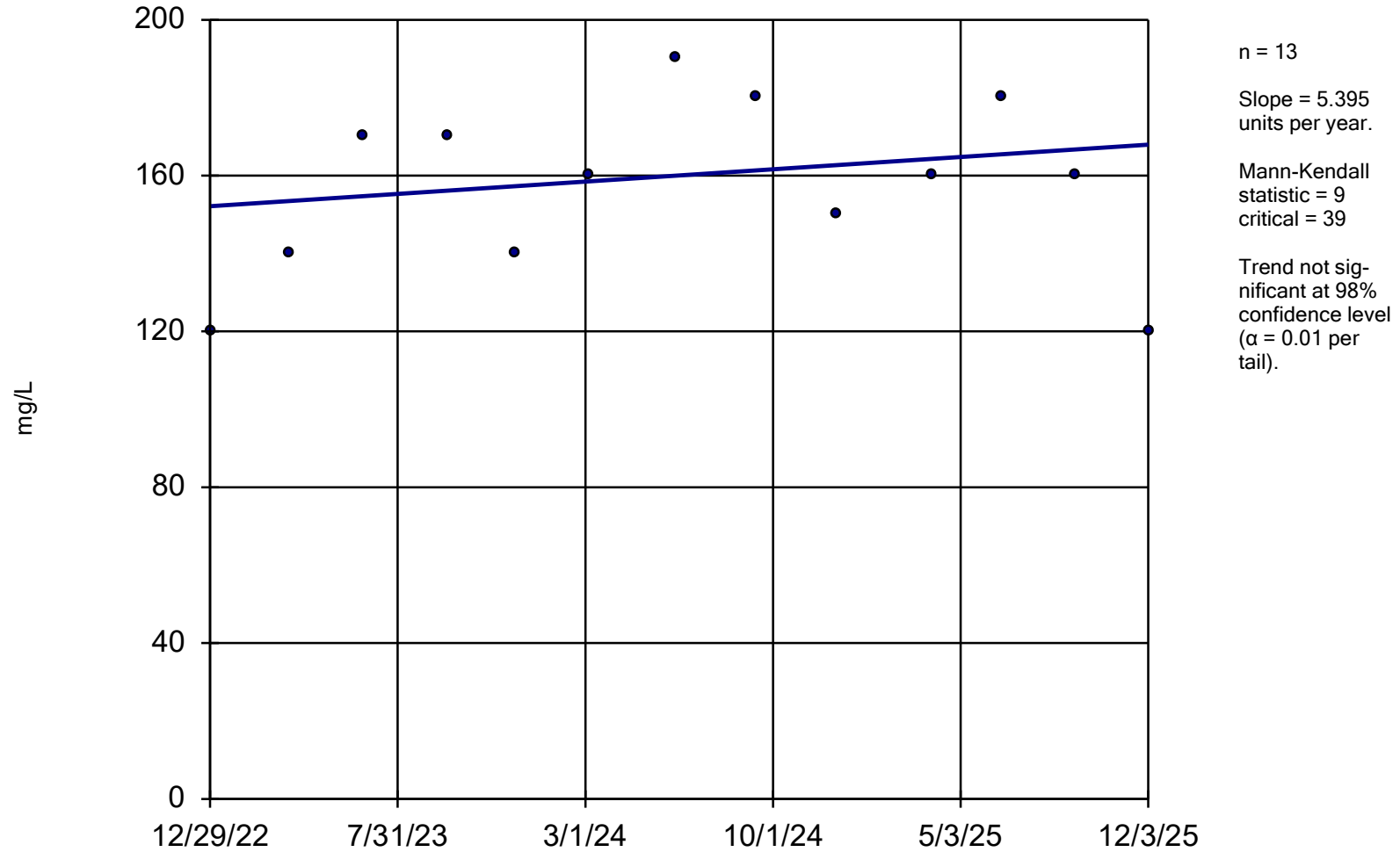
MW-3S



Constituent: Alkalinity, Total Analysis Run 3/22/2026 4:10 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

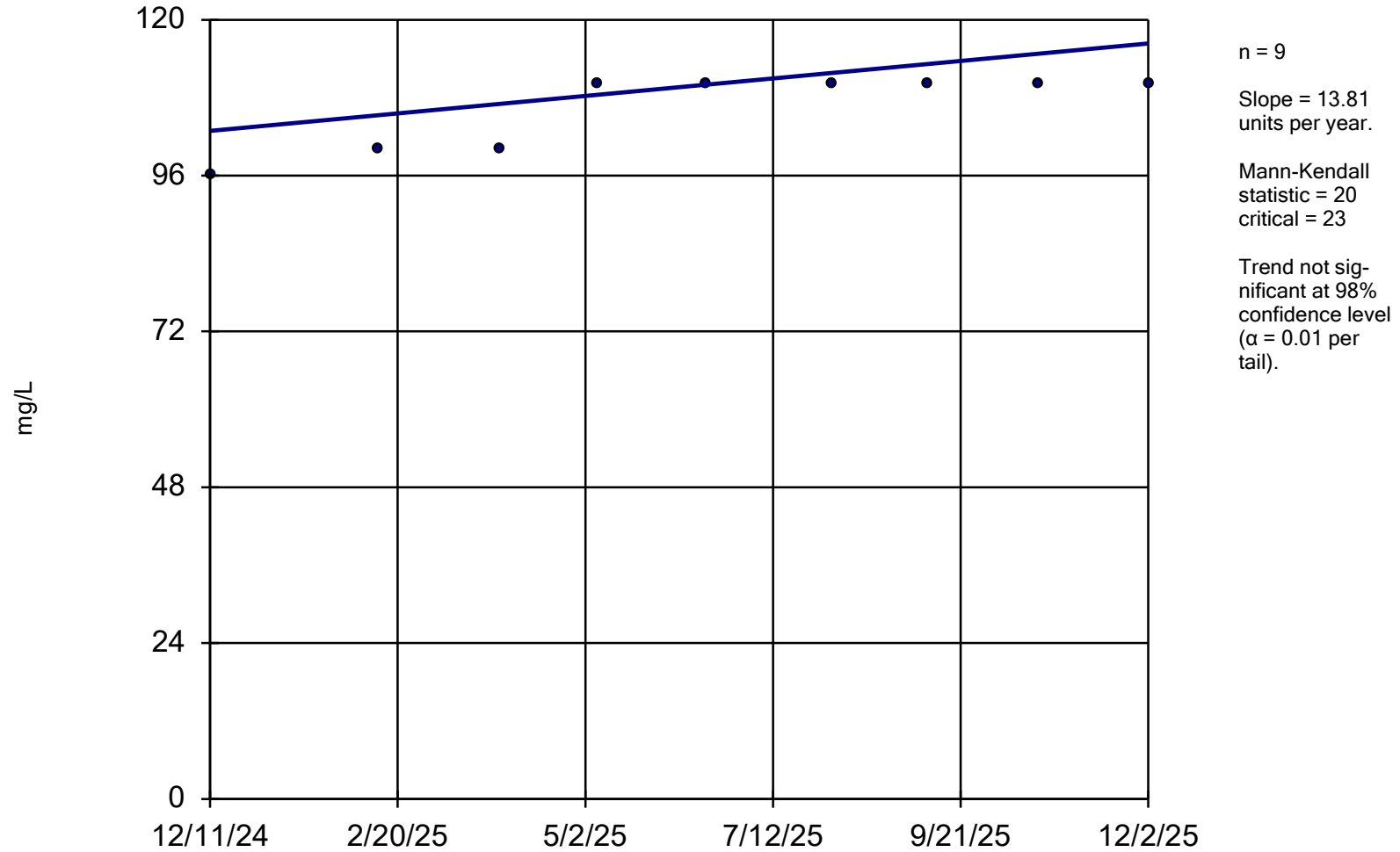
MW-4S



Constituent: Alkalinity, Total Analysis Run 3/22/2026 4:10 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

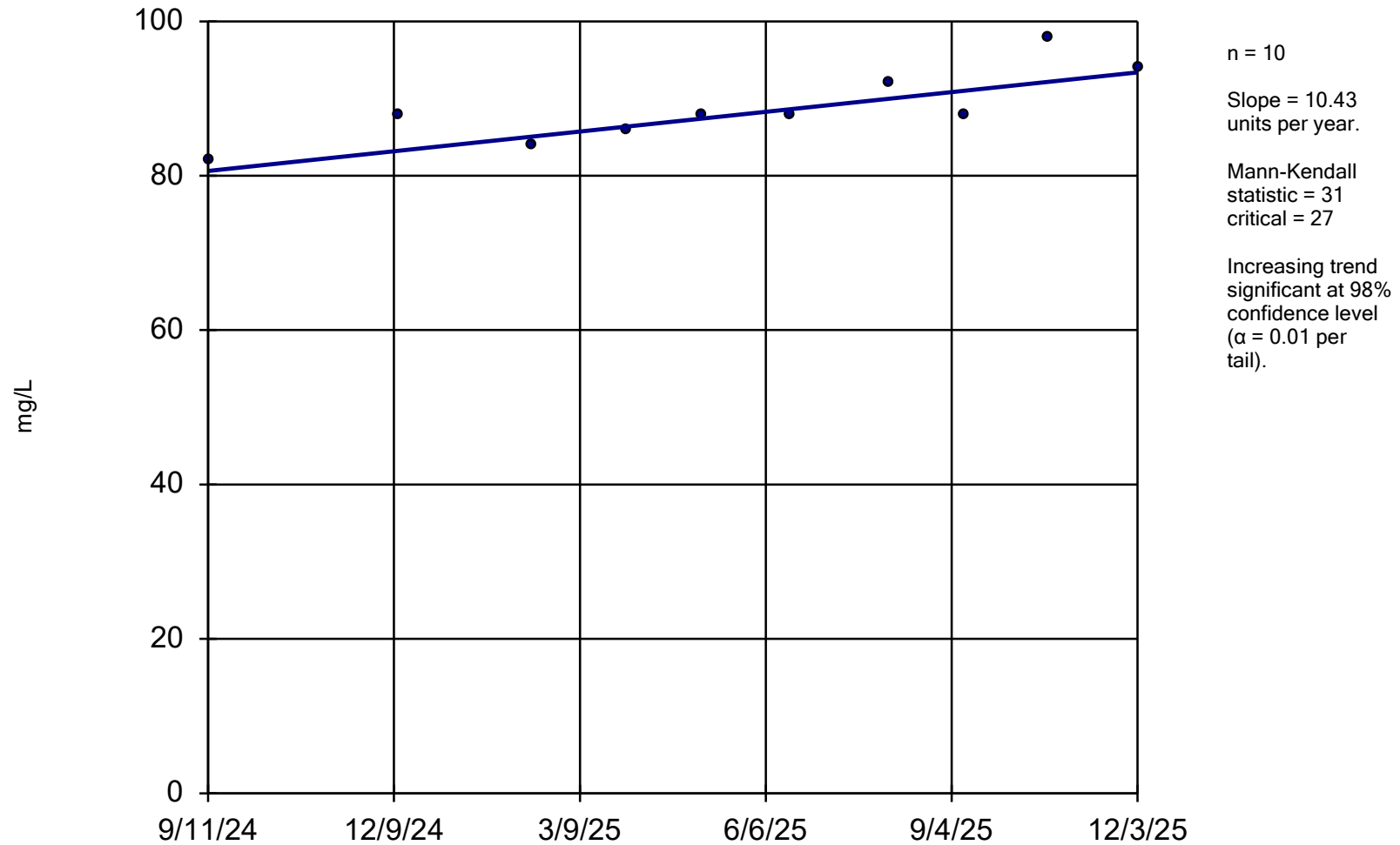
MW-5S



Constituent: Alkalinity, Total Analysis Run 3/22/2026 4:10 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

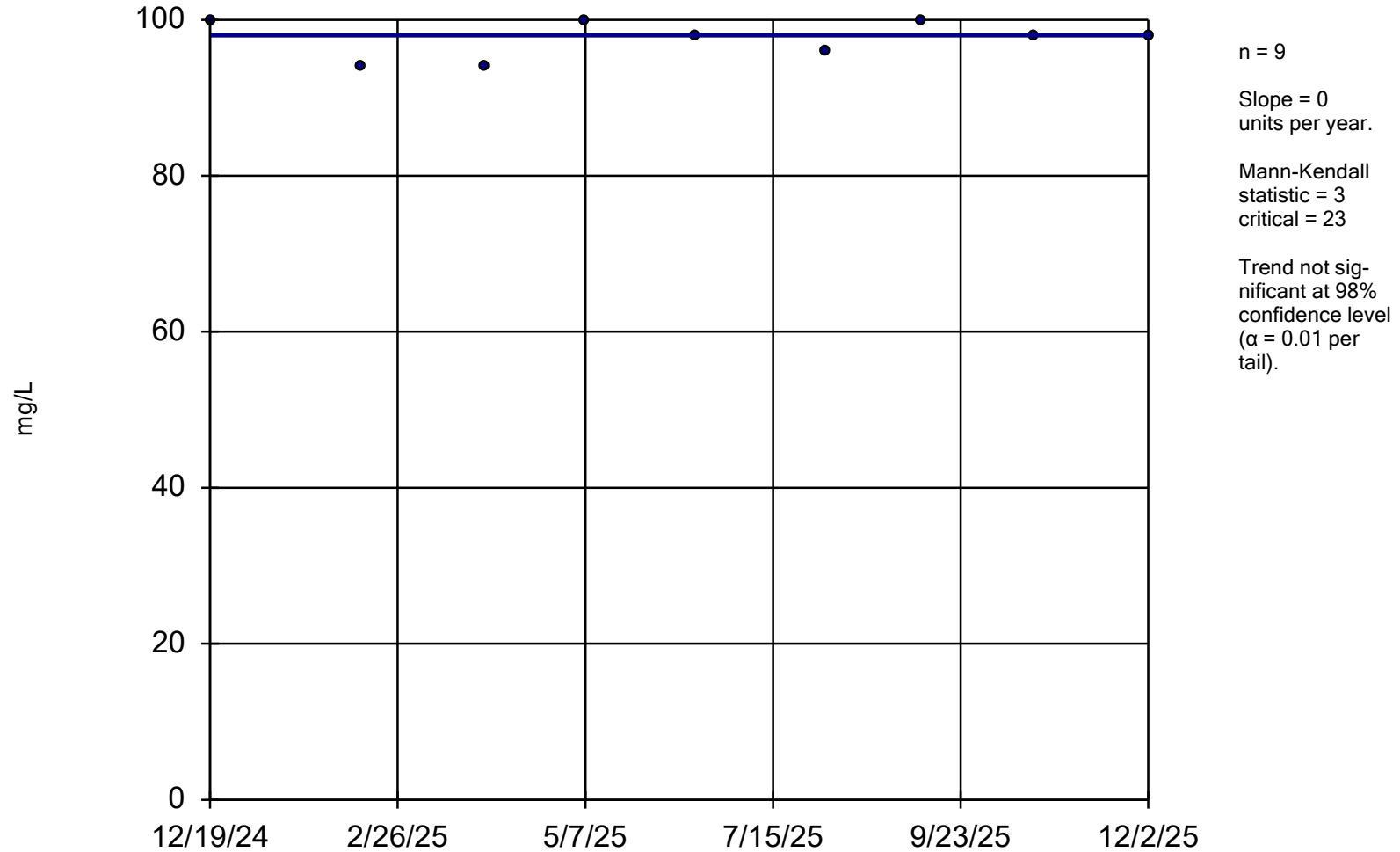
MW-6S



Constituent: Alkalinity, Total Analysis Run 3/22/2026 4:10 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

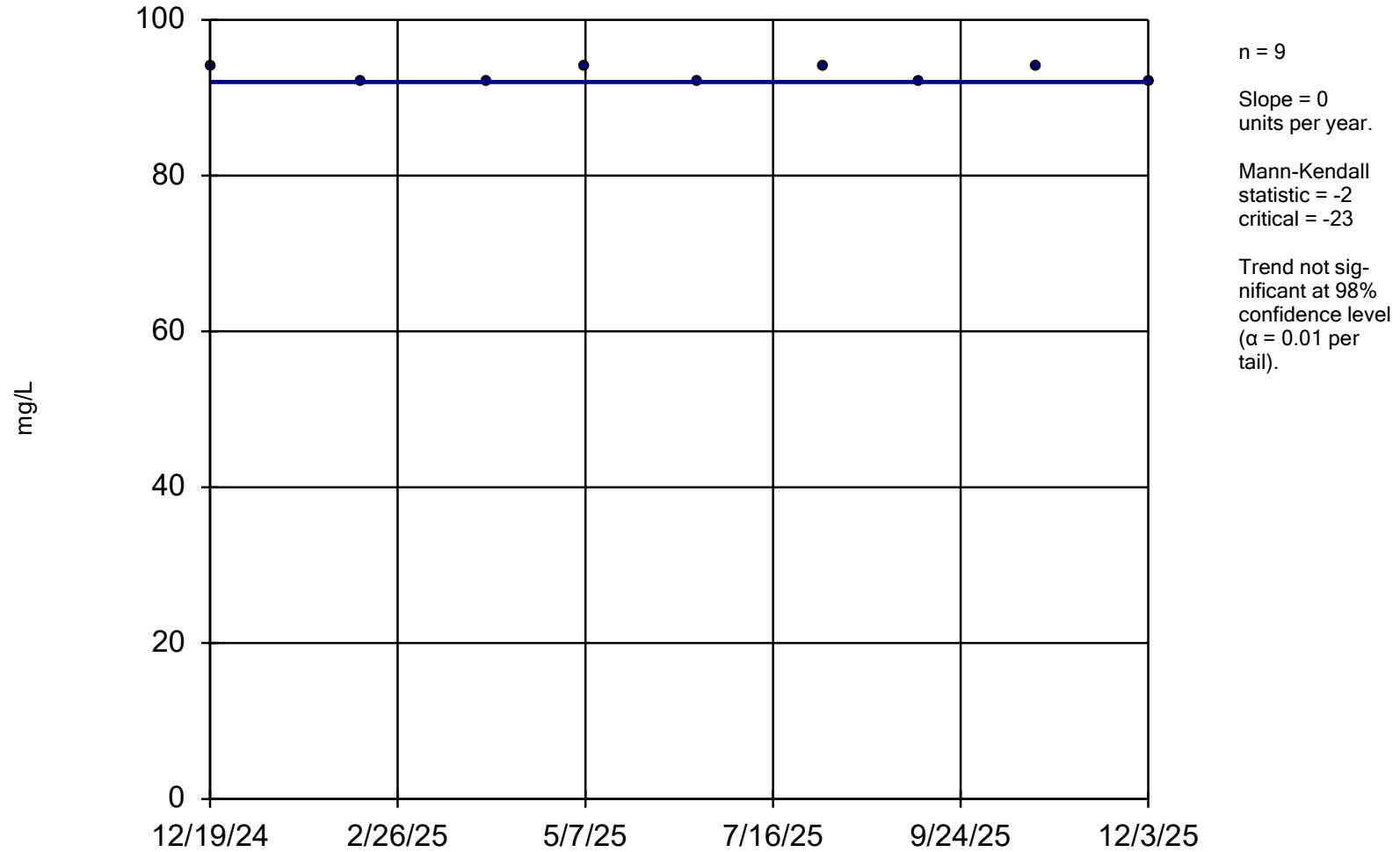
MW-7D



Constituent: Alkalinity, Total Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

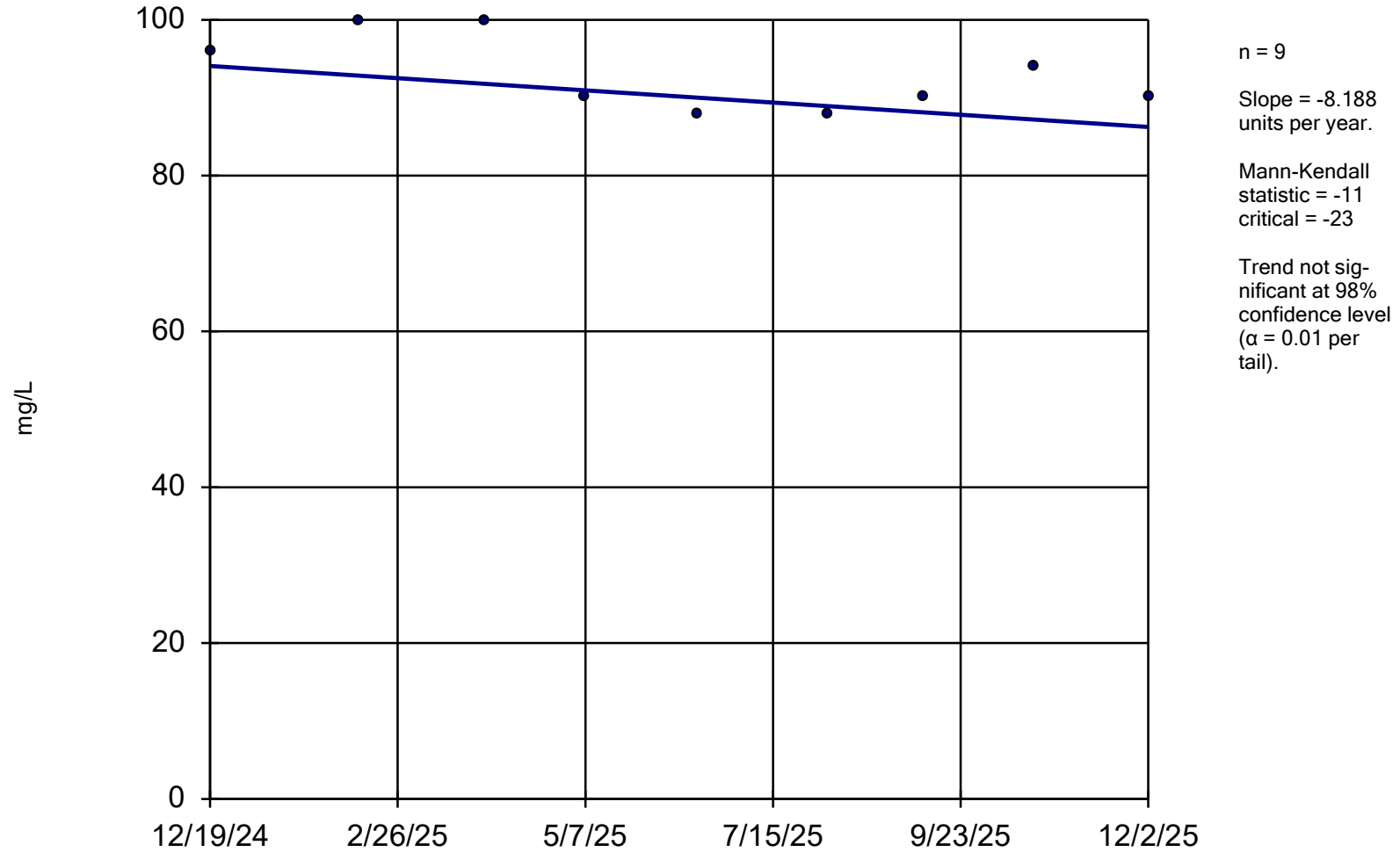
MW-8D



Constituent: Alkalinity, Total Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

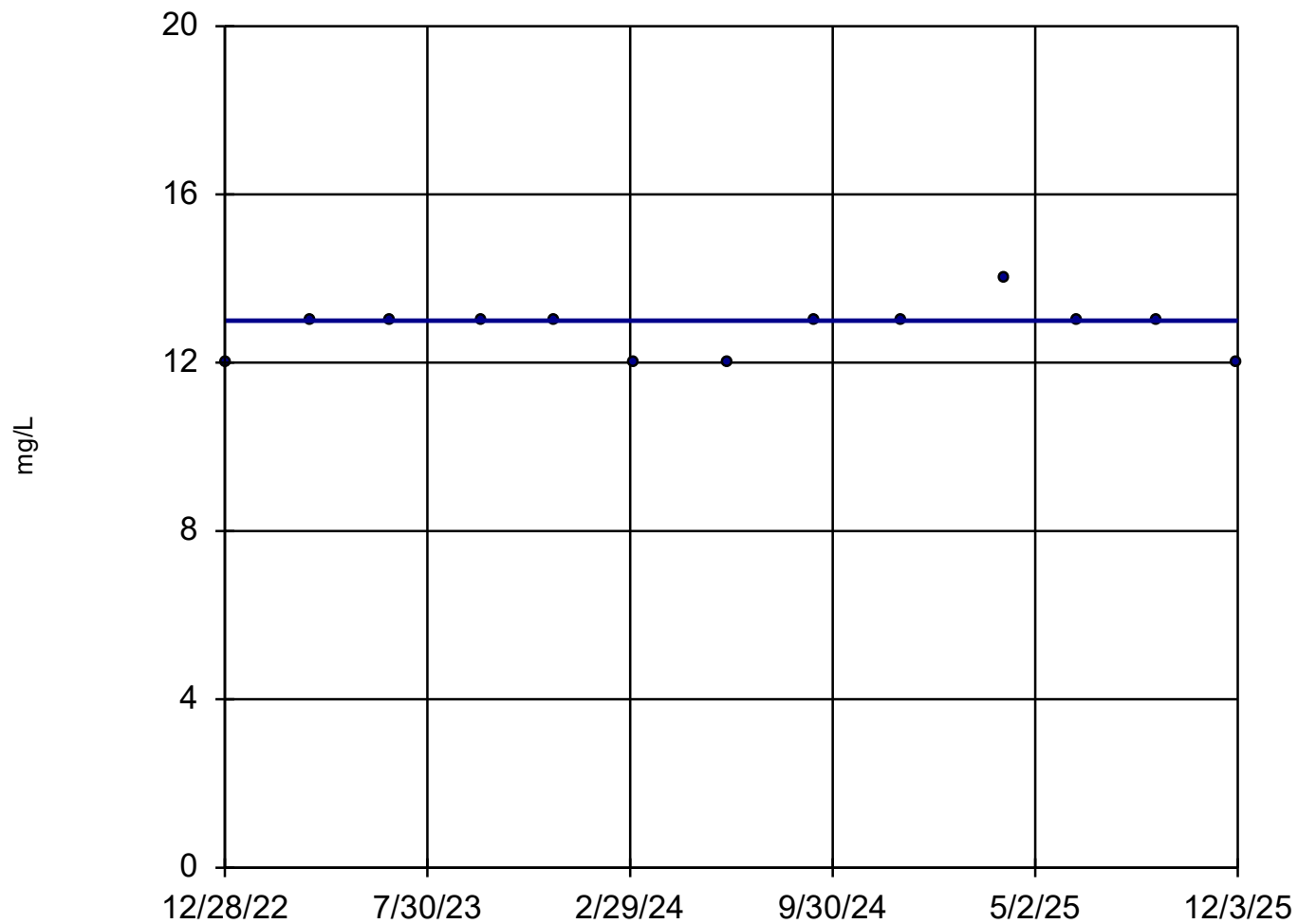
MW-9D



Constituent: Alkalinity, Total Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-2S



n = 13

Slope = 0
units per year.

Mann-Kendall
statistic = 6
critical = 39

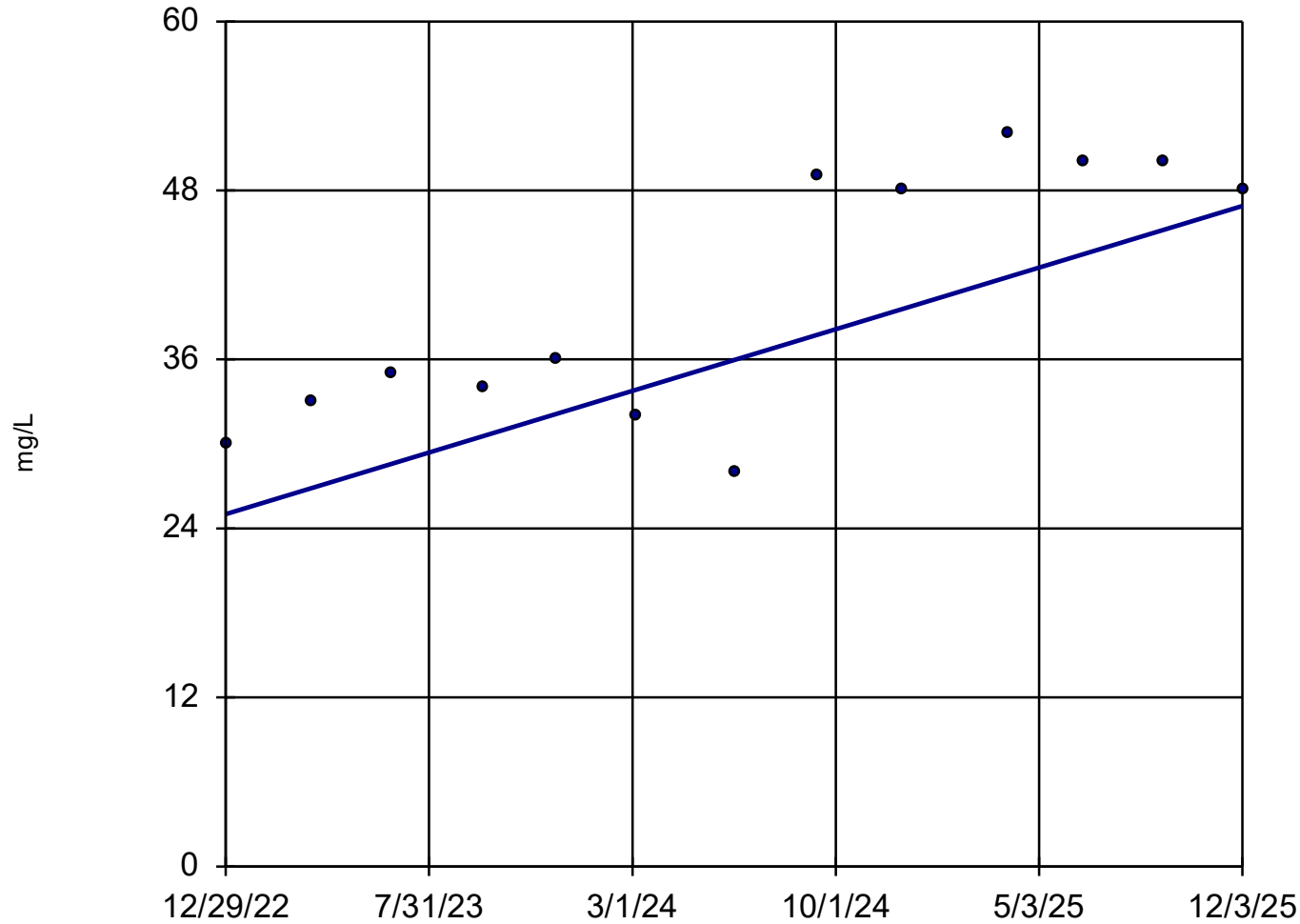
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Calcium, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-3S



n = 13

Slope = 7.462
units per year.

Mann-Kendall
statistic = 40
critical = 39

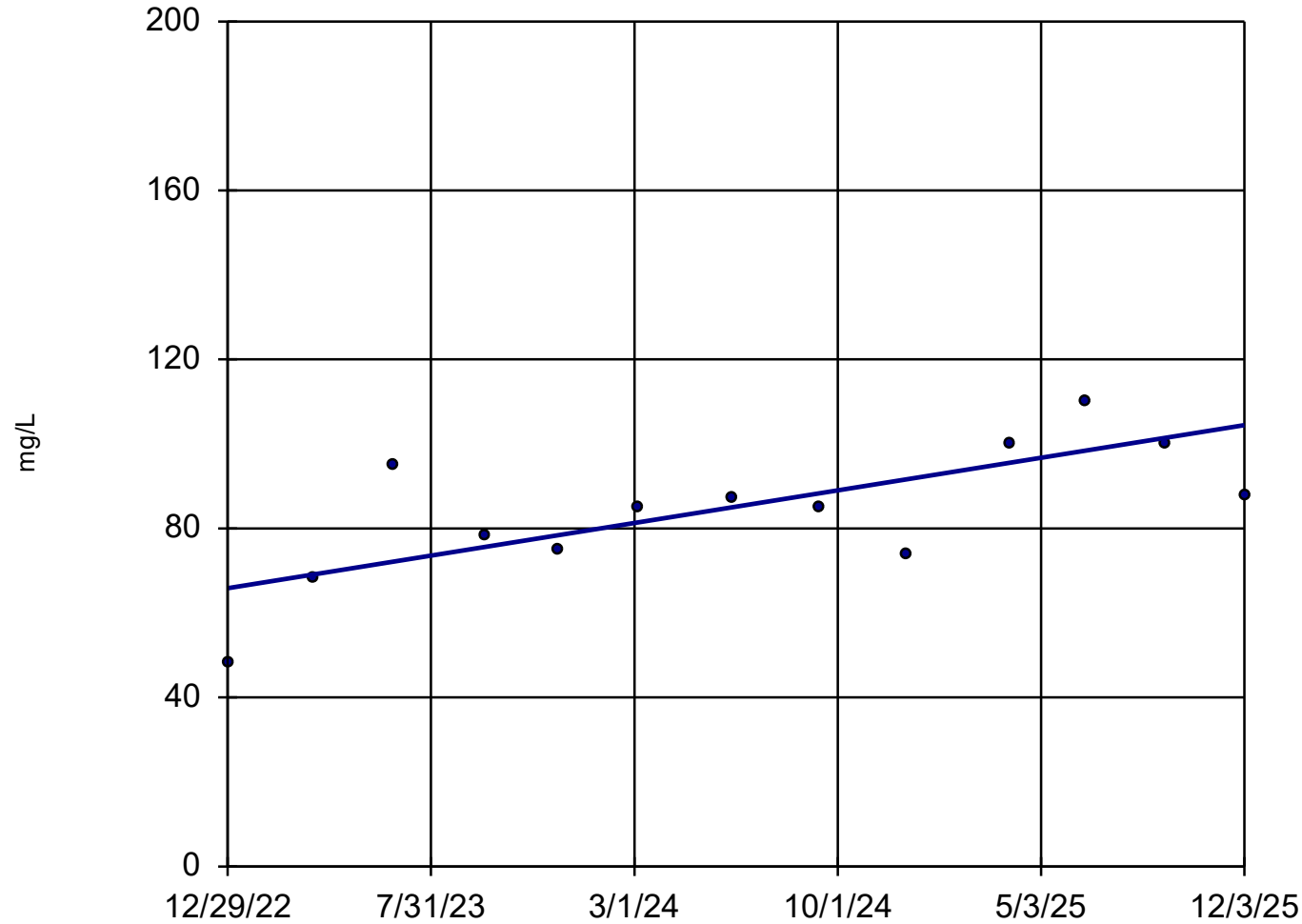
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Calcium, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-4S



n = 13

Slope = 13.16
units per year.

Mann-Kendall
statistic = 40
critical = 39

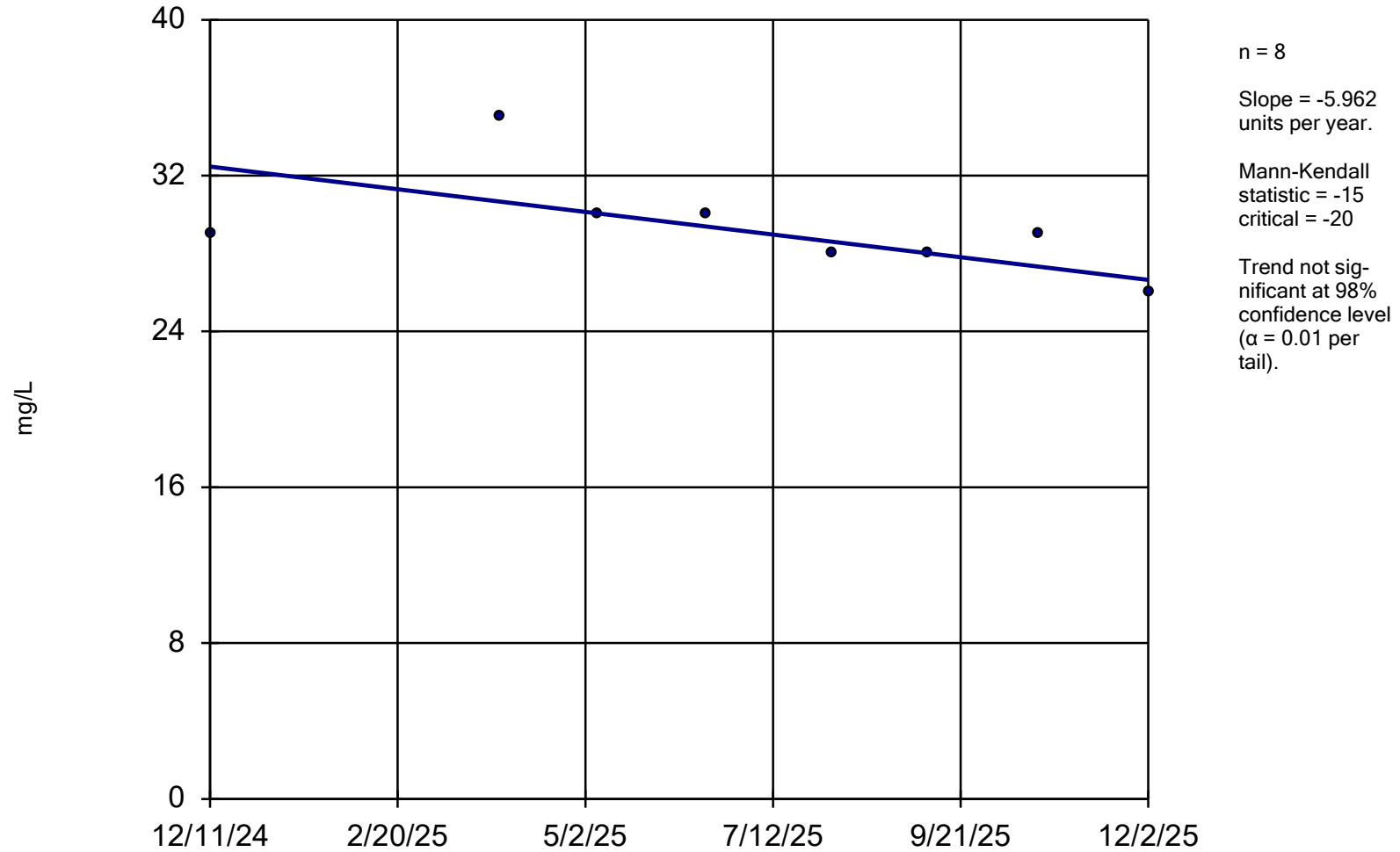
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Calcium, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-5S

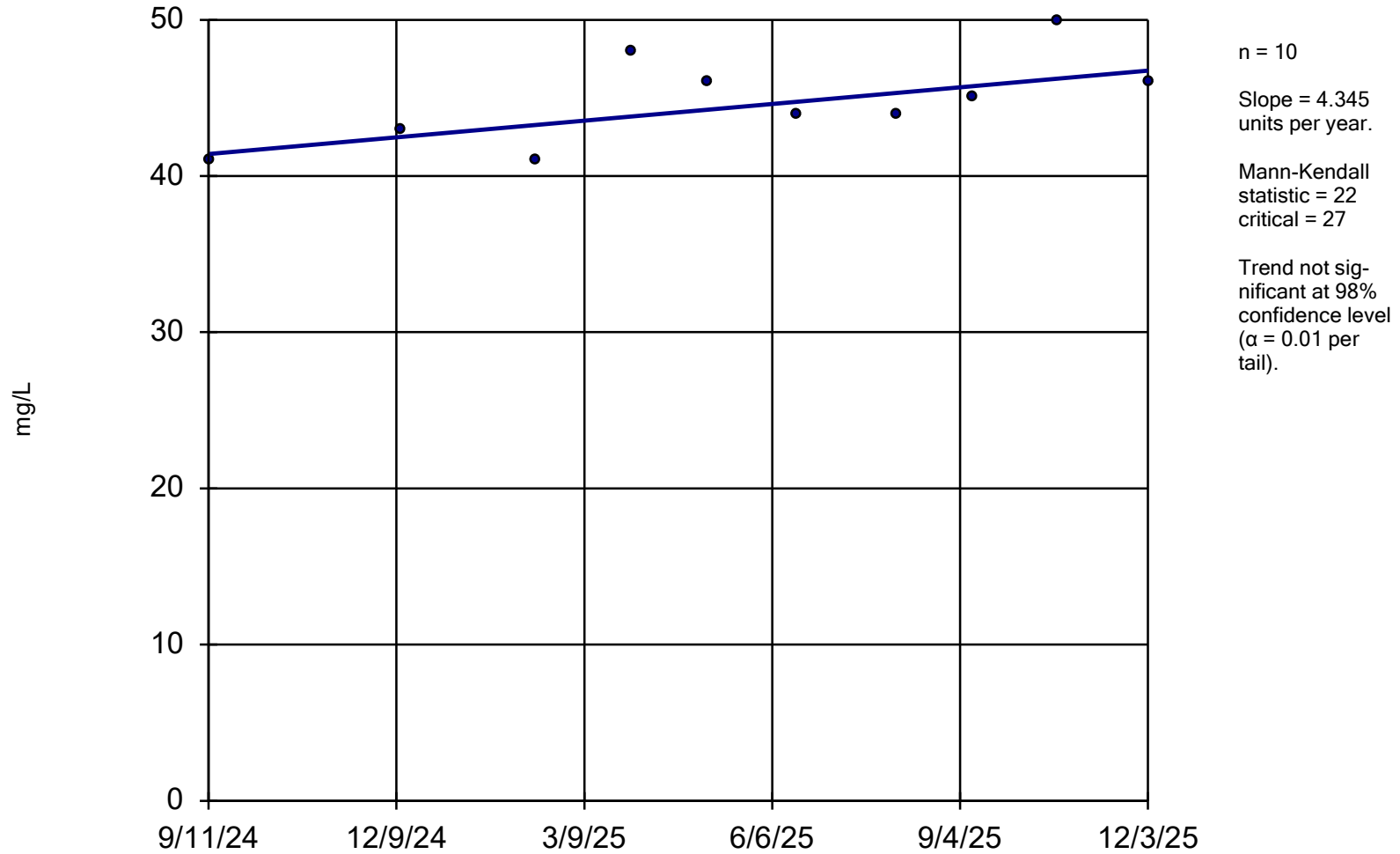


Constituent: Calcium, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-6S

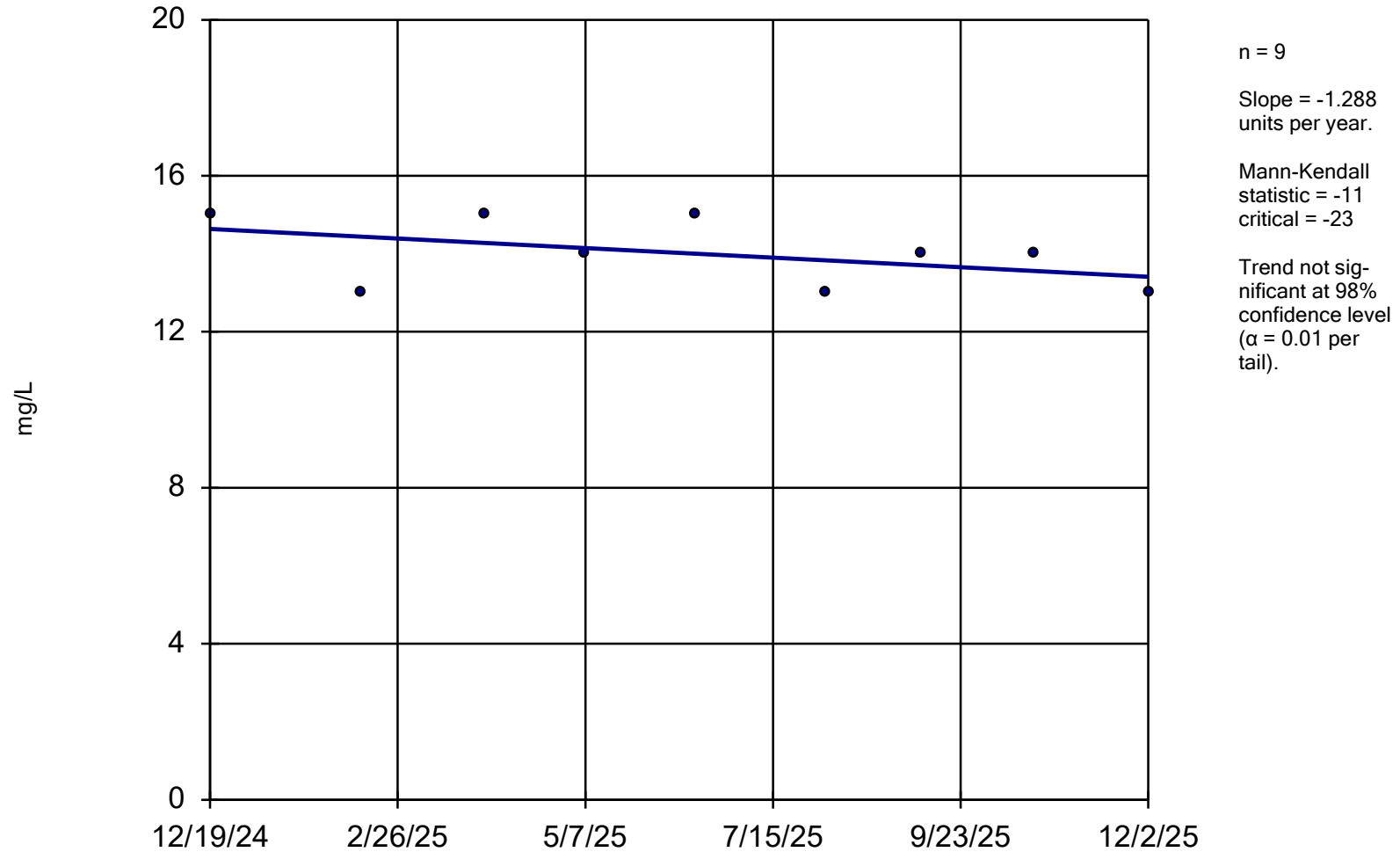


Constituent: Calcium, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-7D

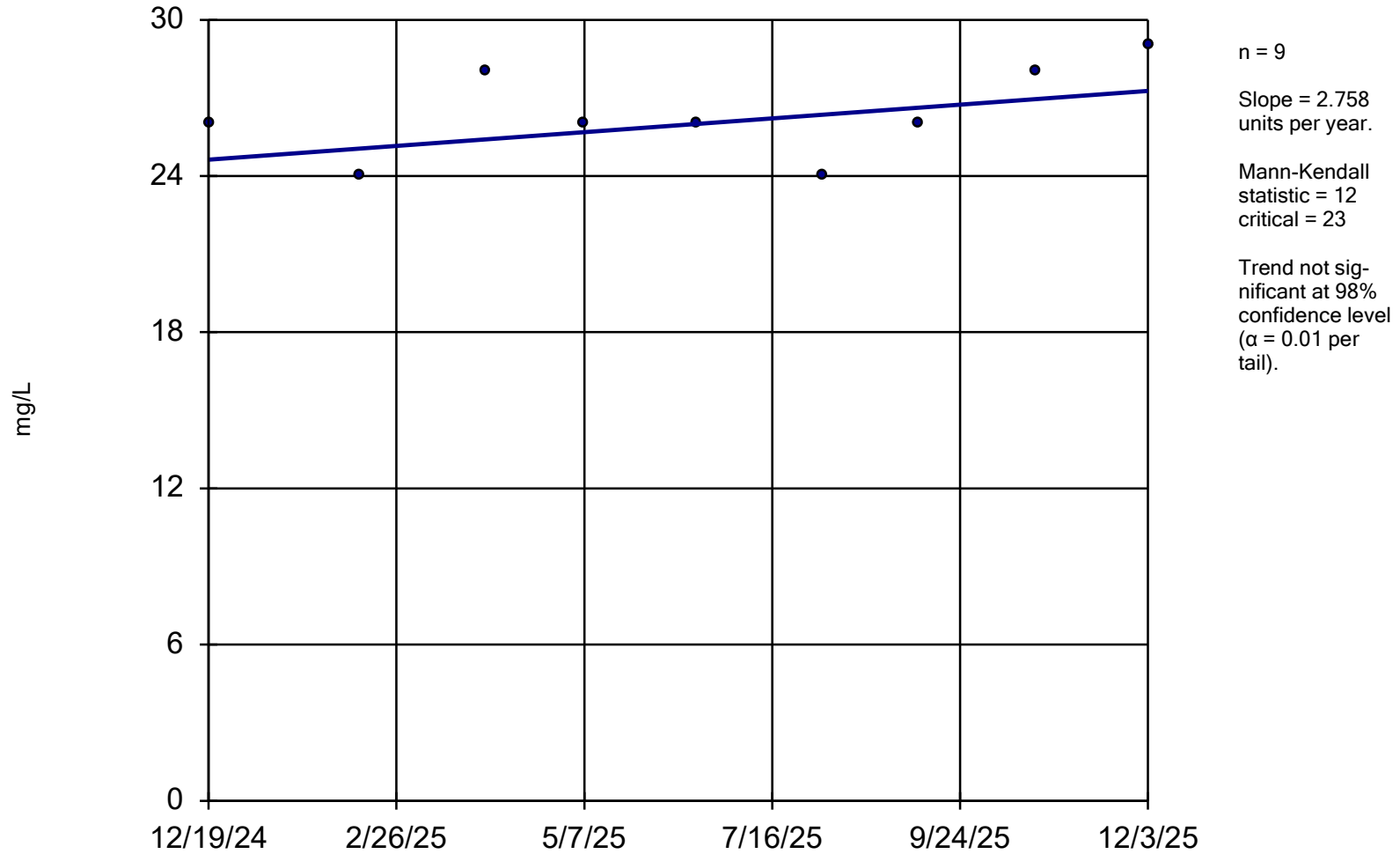


Constituent: Calcium, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

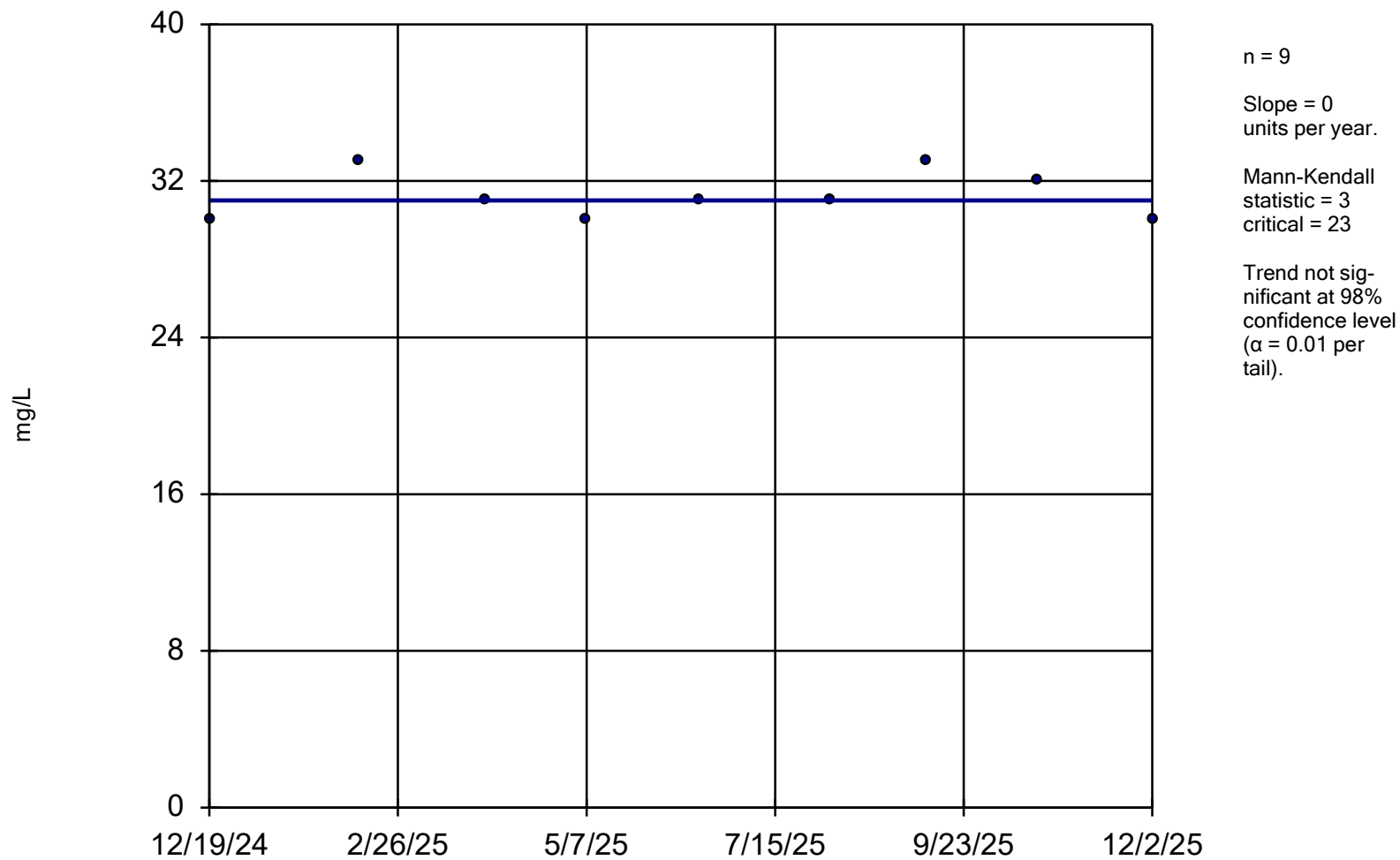
MW-8D



Constituent: Calcium, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-9D

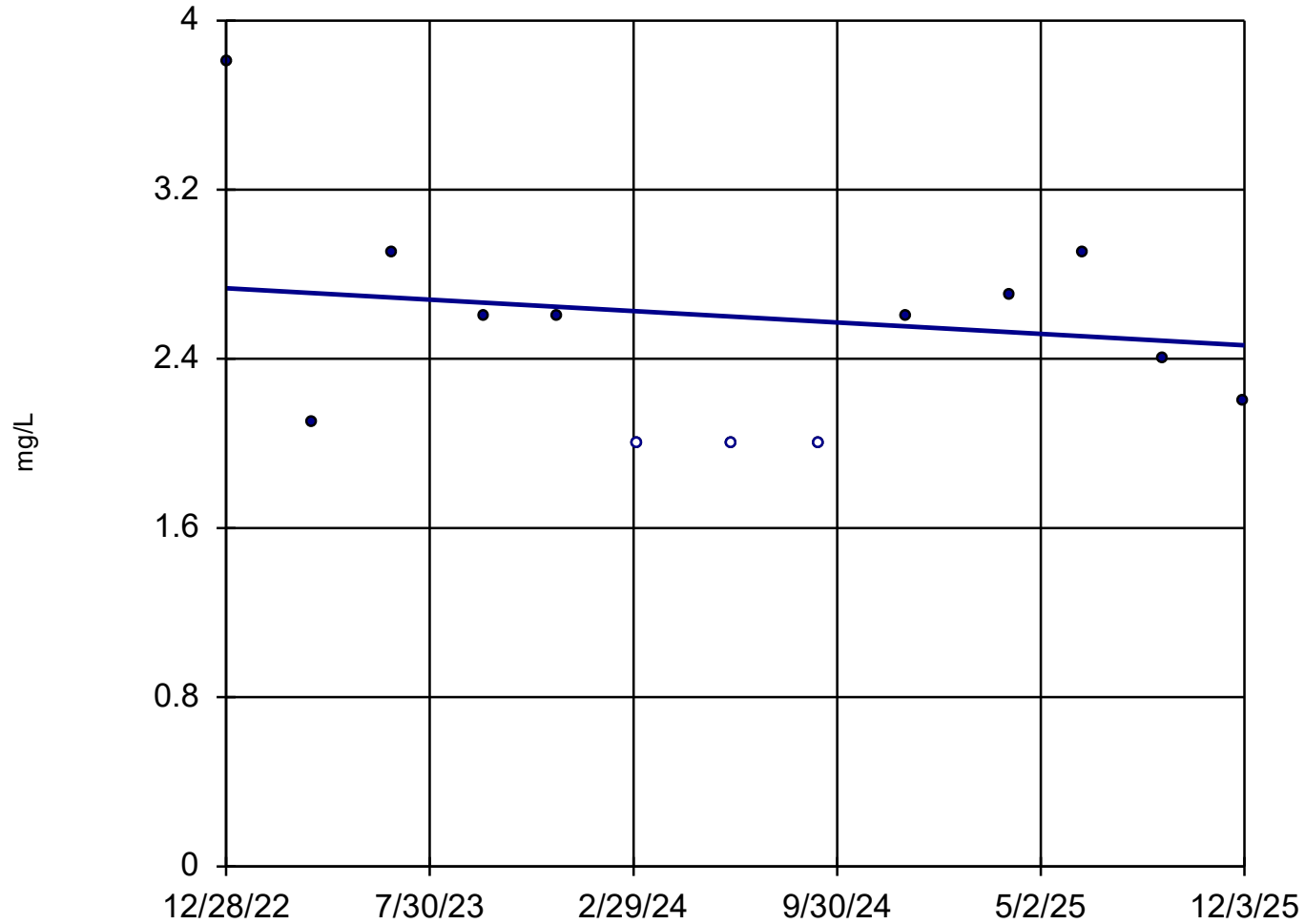


Constituent: Calcium, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

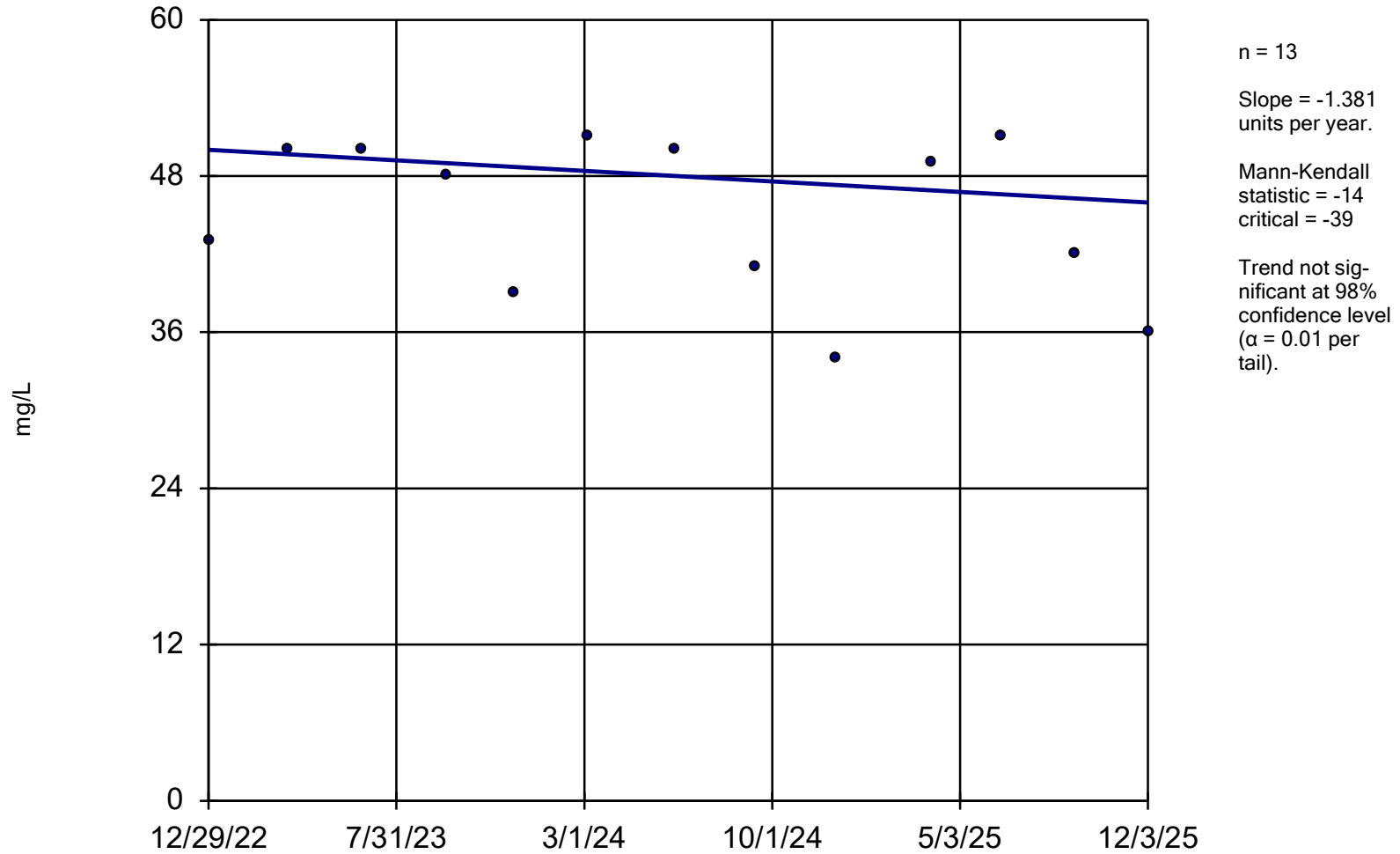
MW-2S



n = 13
Slope = -0.09243
units per year.
Mann-Kendall
statistic = -11
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Sen's Slope Estimator

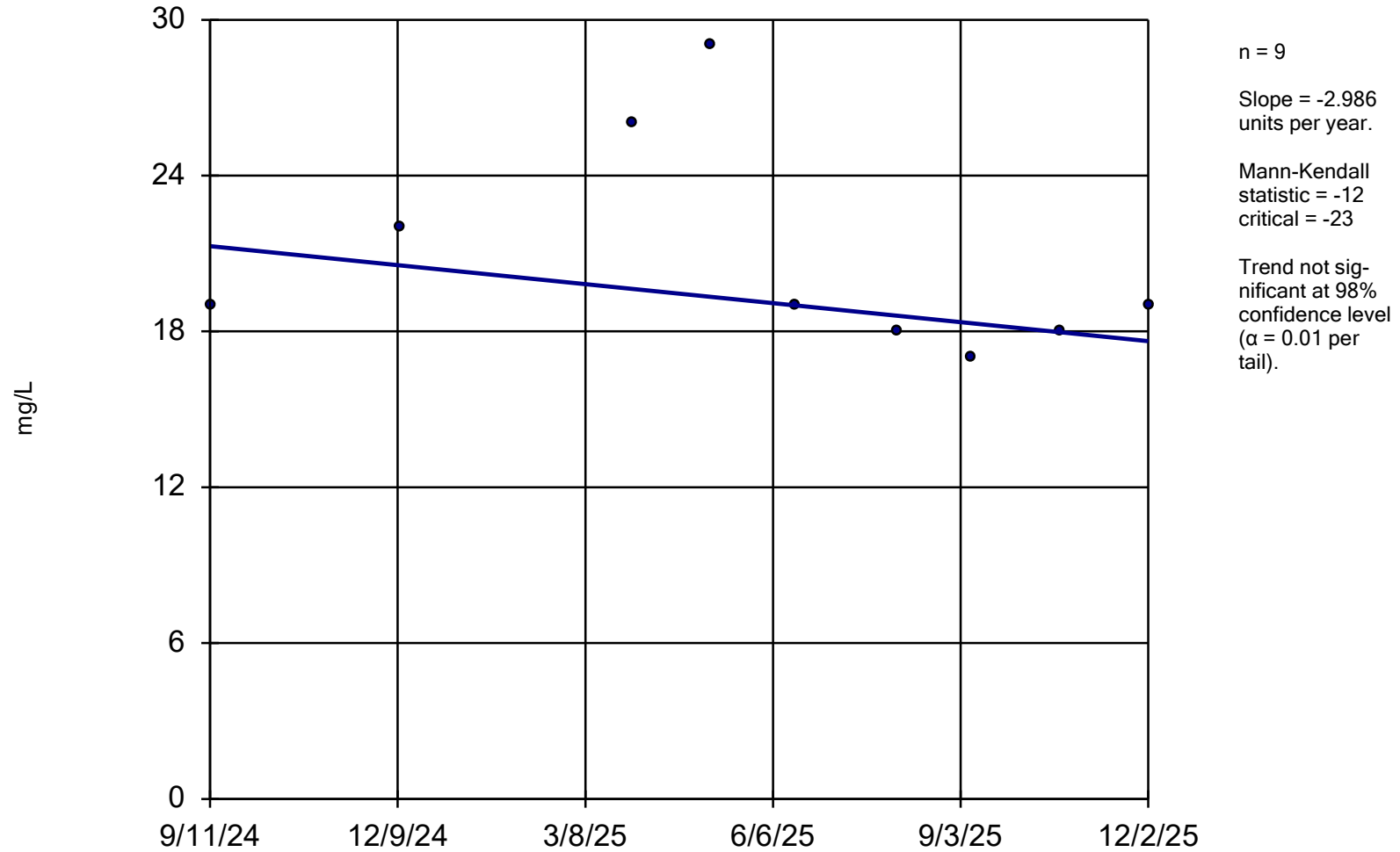
MW-4S



Constituent: Chloride Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

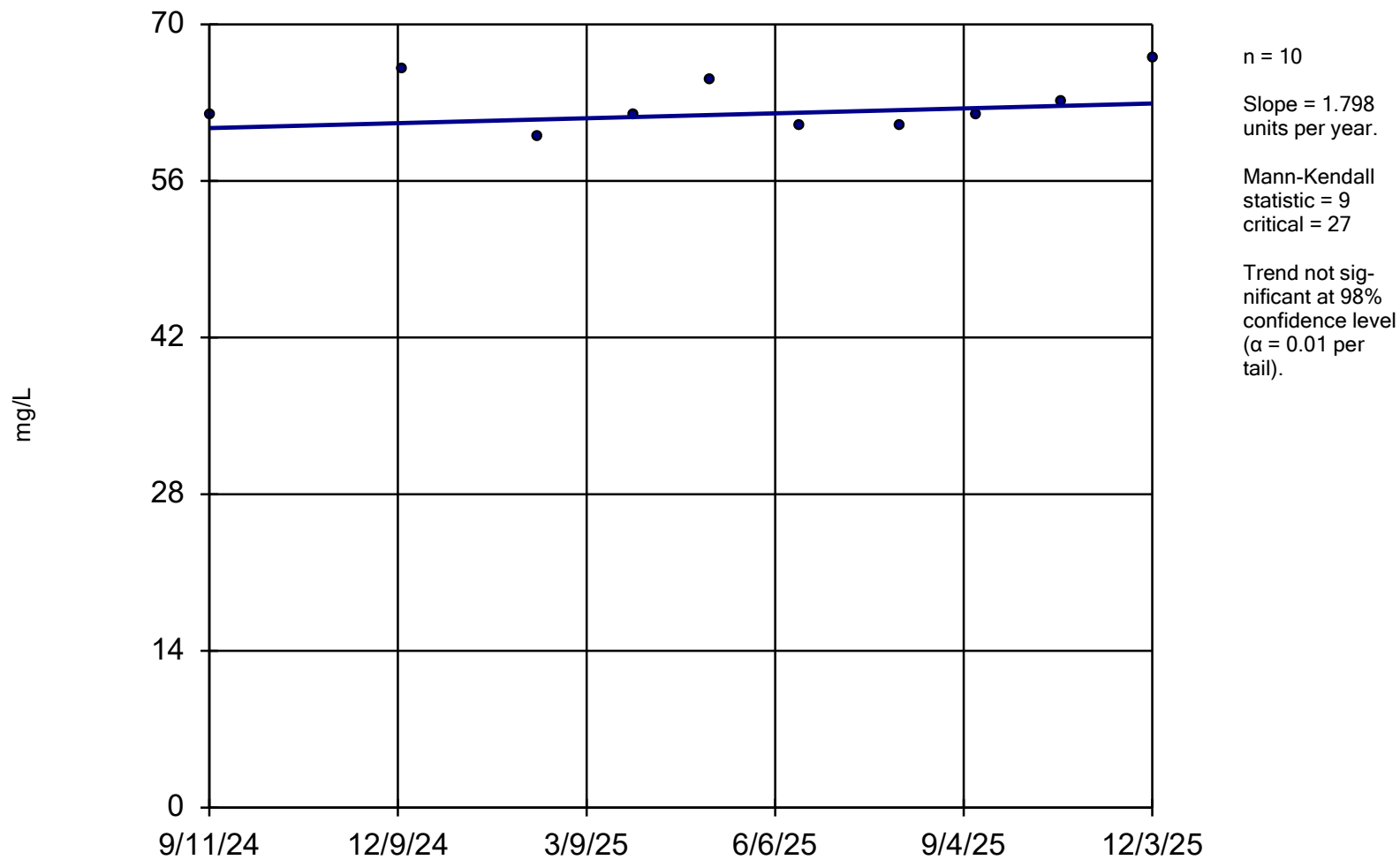
MW-5S



Constituent: Chloride Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

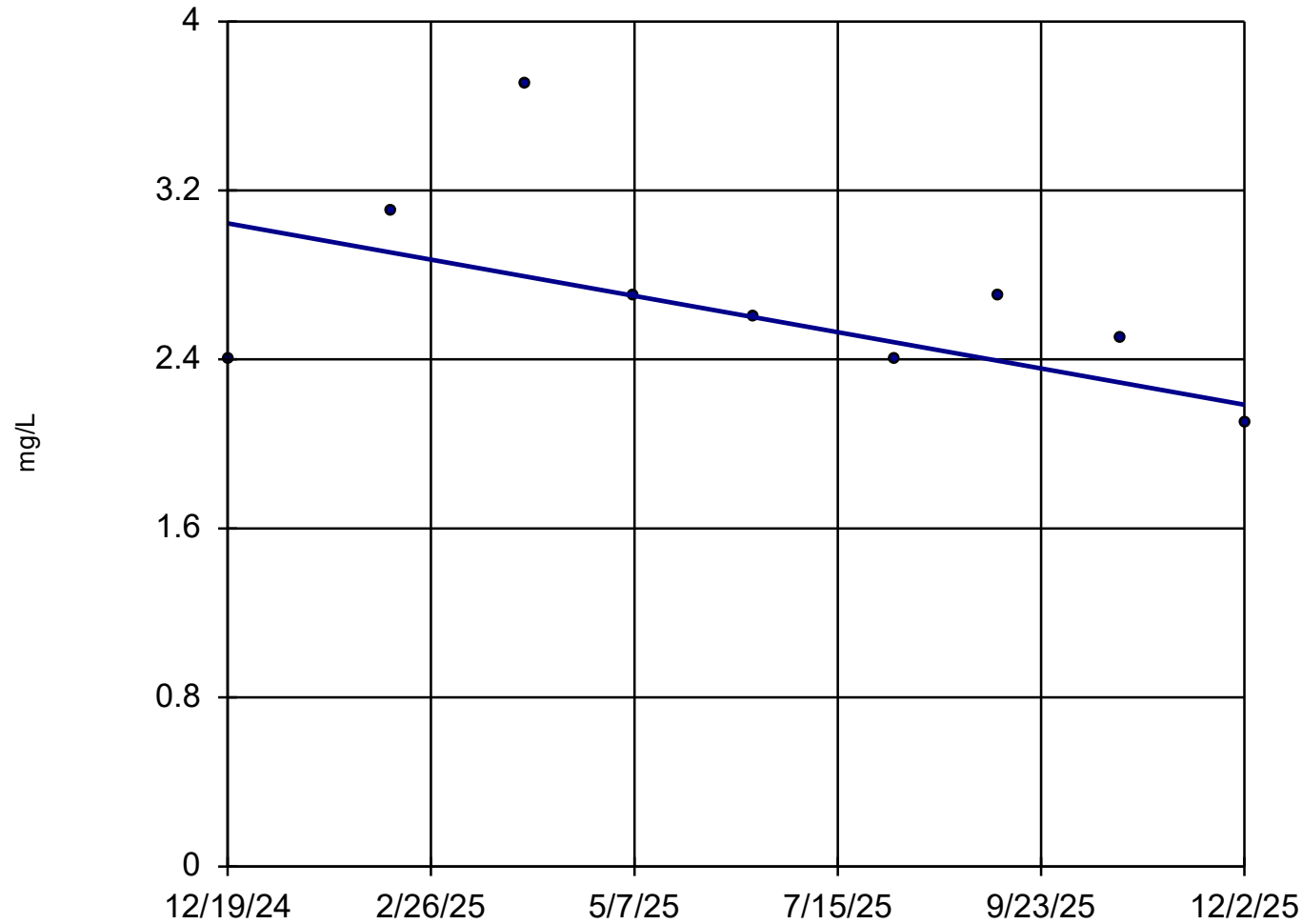
MW-6S



Constituent: Chloride Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-7D

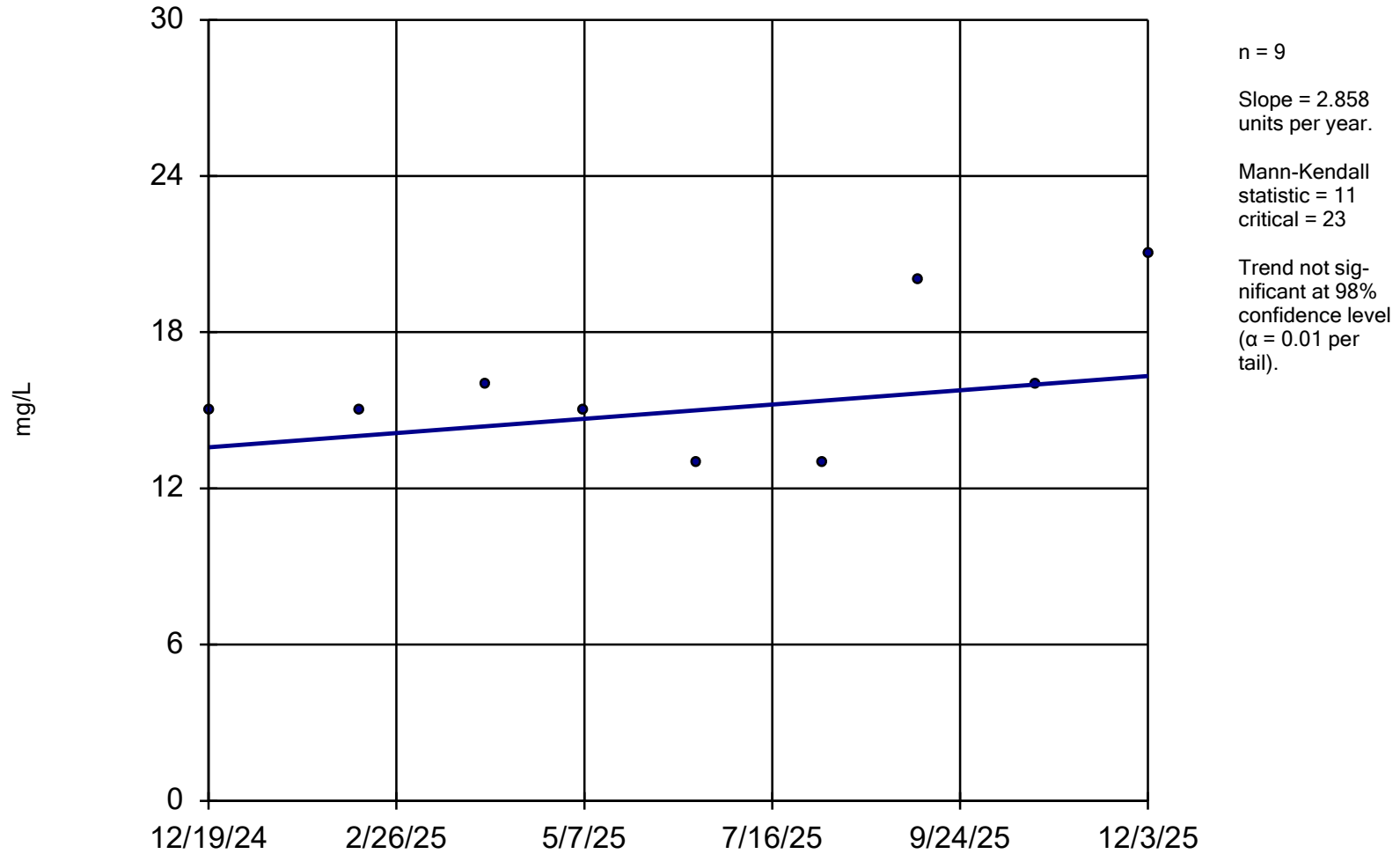


n = 9
Slope = -0.9014
units per year.
Mann-Kendall
statistic = -14
critical = -23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Chloride Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

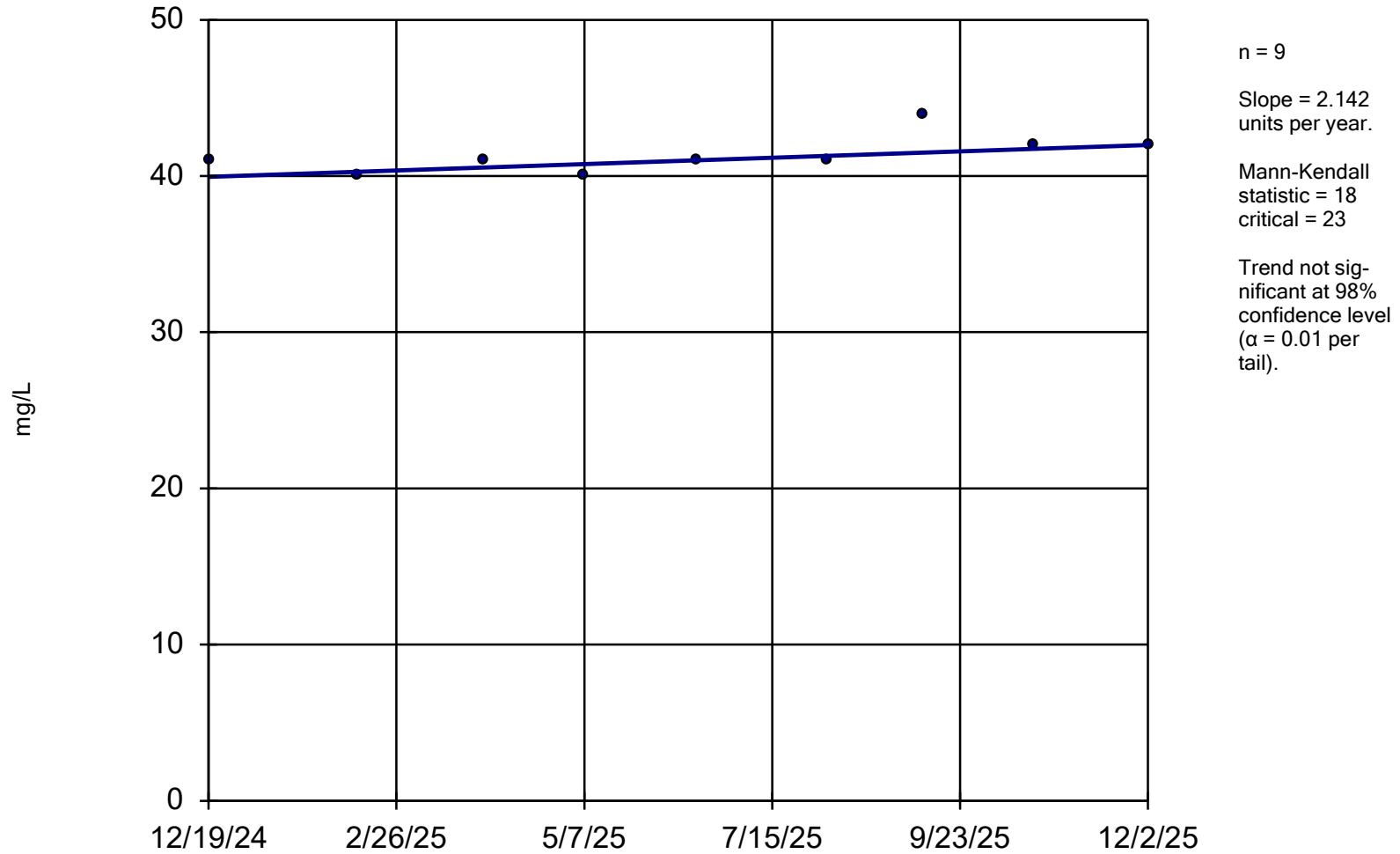
MW-8D



Constituent: Chloride Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

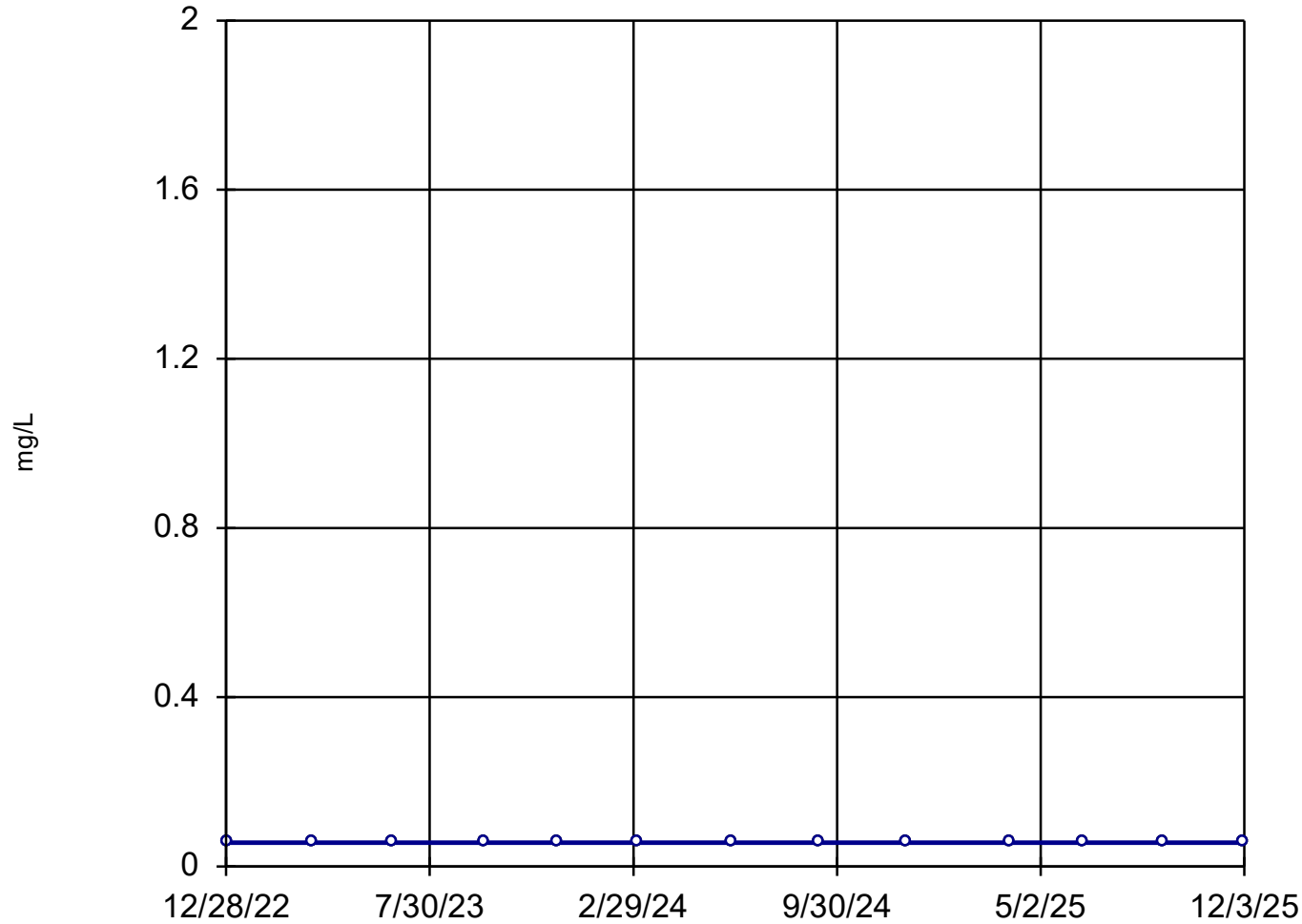
MW-9D



Constituent: Chloride Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-2S

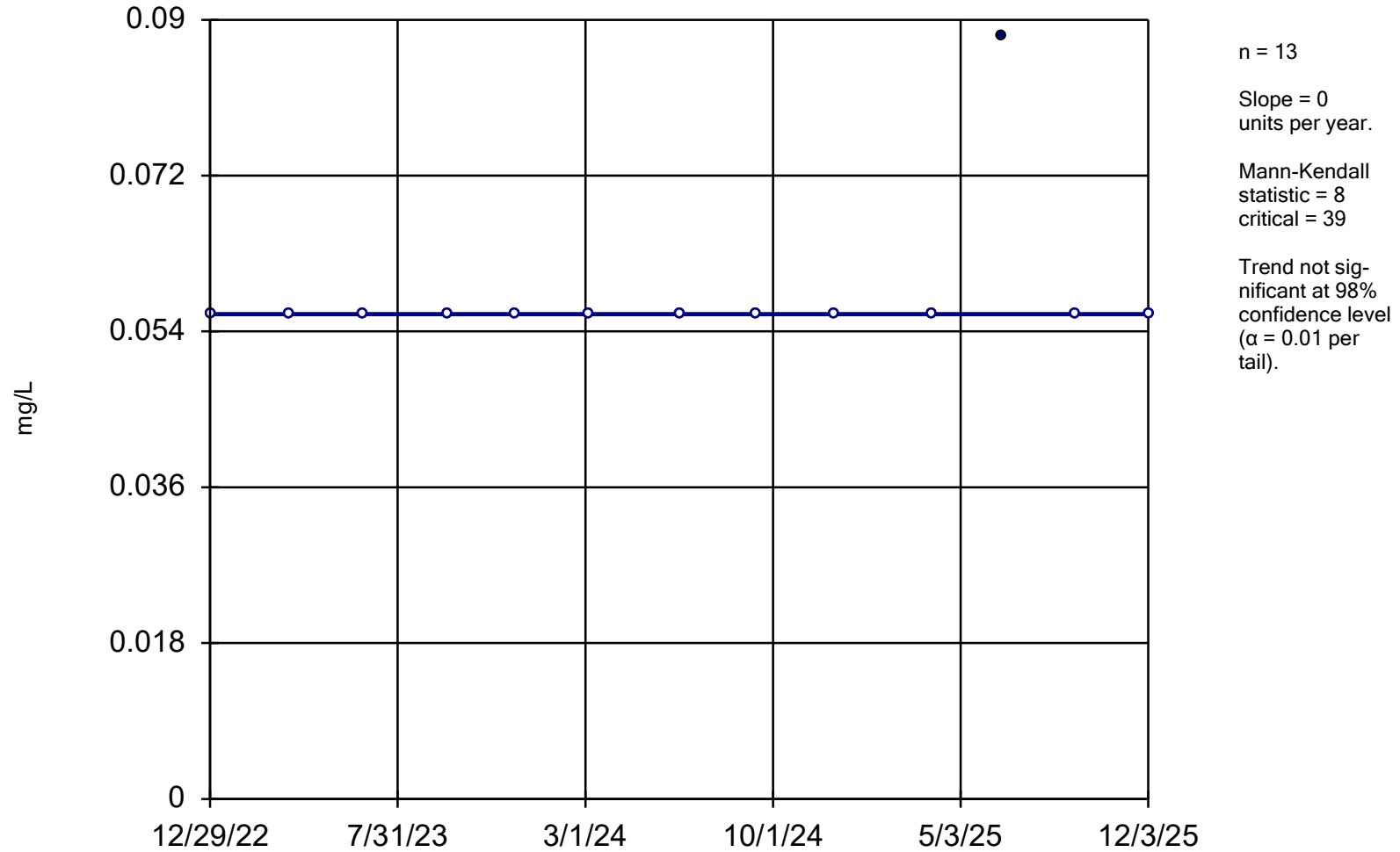


n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Iron, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

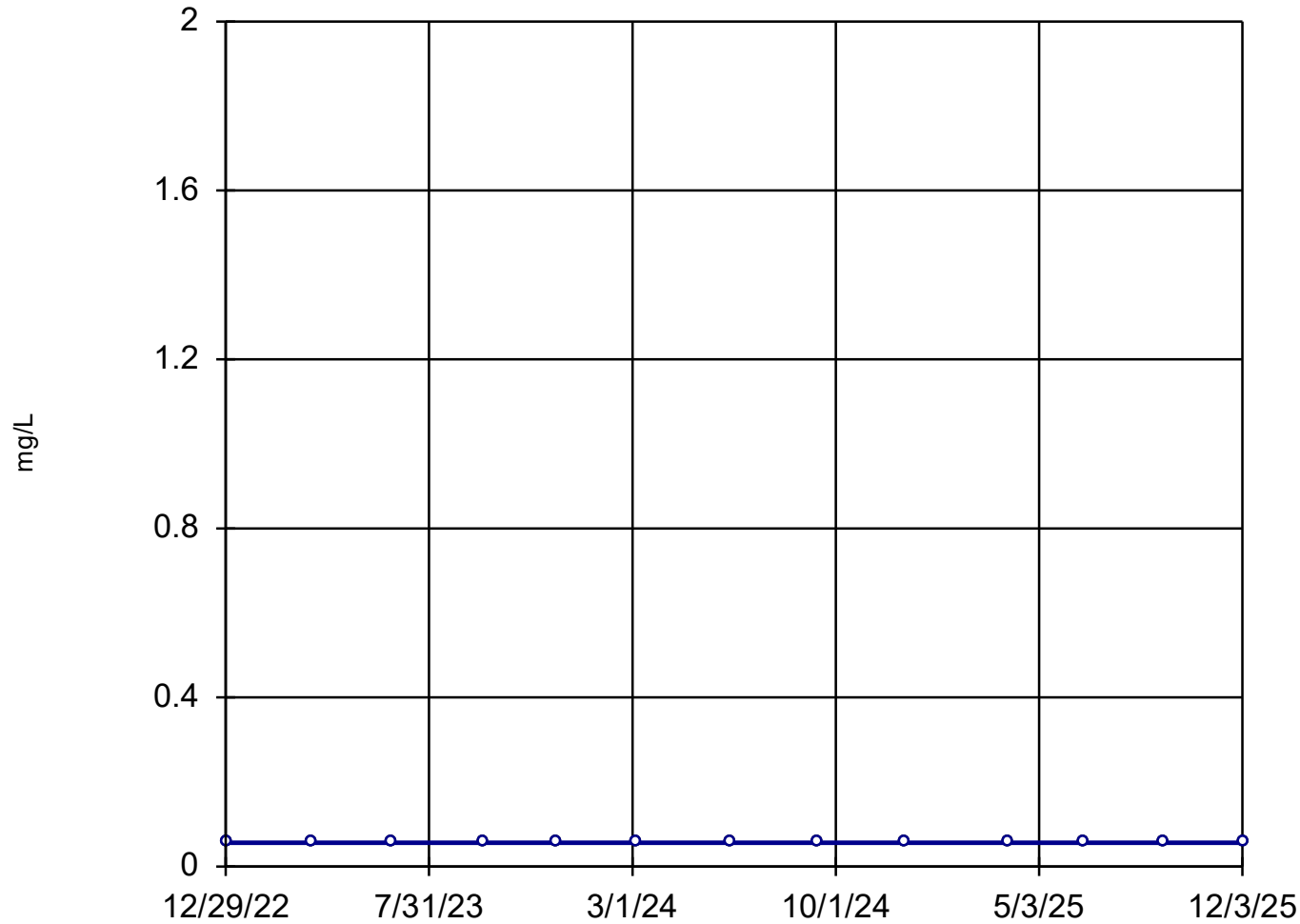
MW-3S



Constituent: Iron, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-4S



n = 13

Slope = 0
units per year.

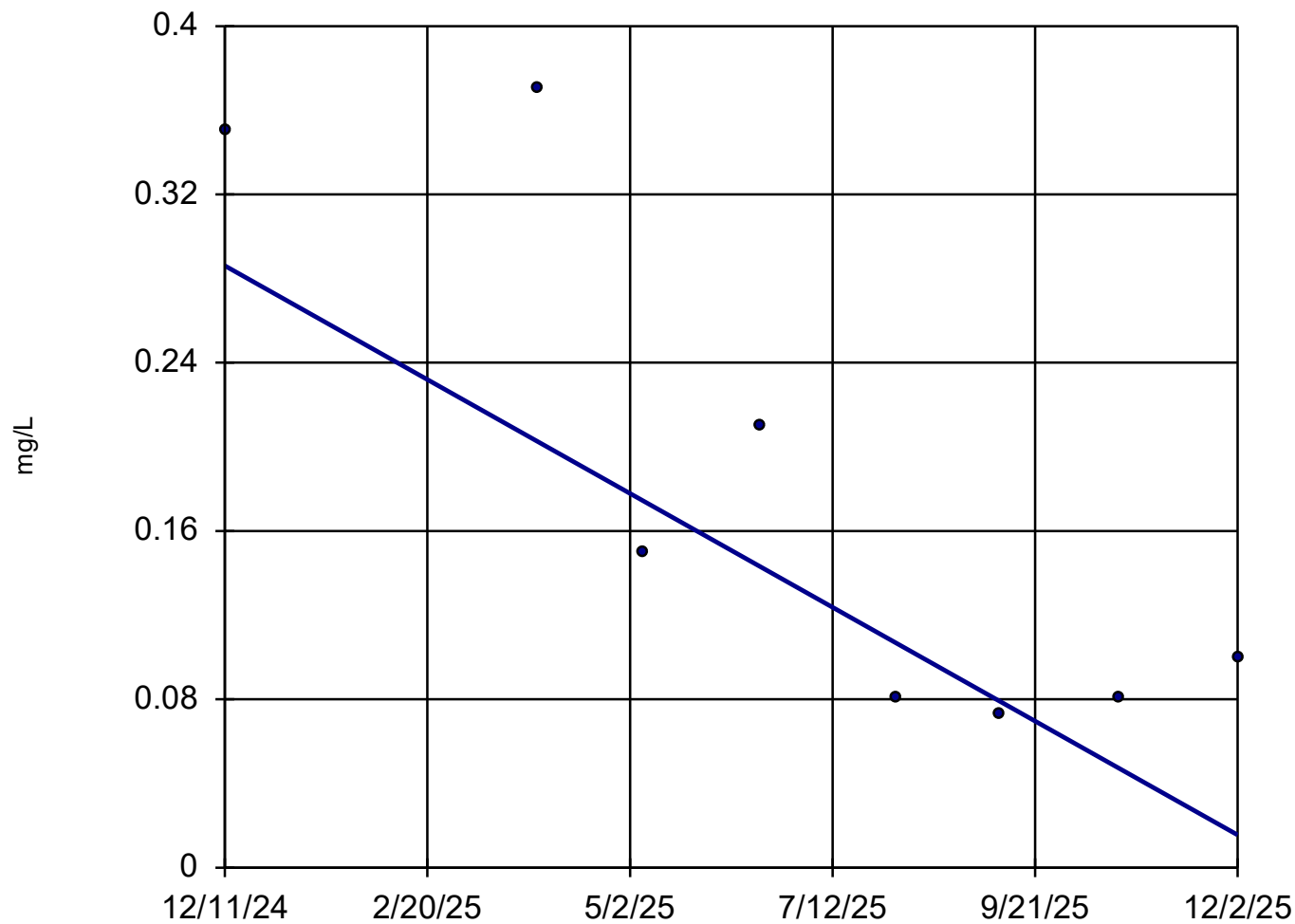
Mann-Kendall
statistic = 0
critical = 39

Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Iron, Dissolved Analysis Run 3/22/2026 4:11 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-5S



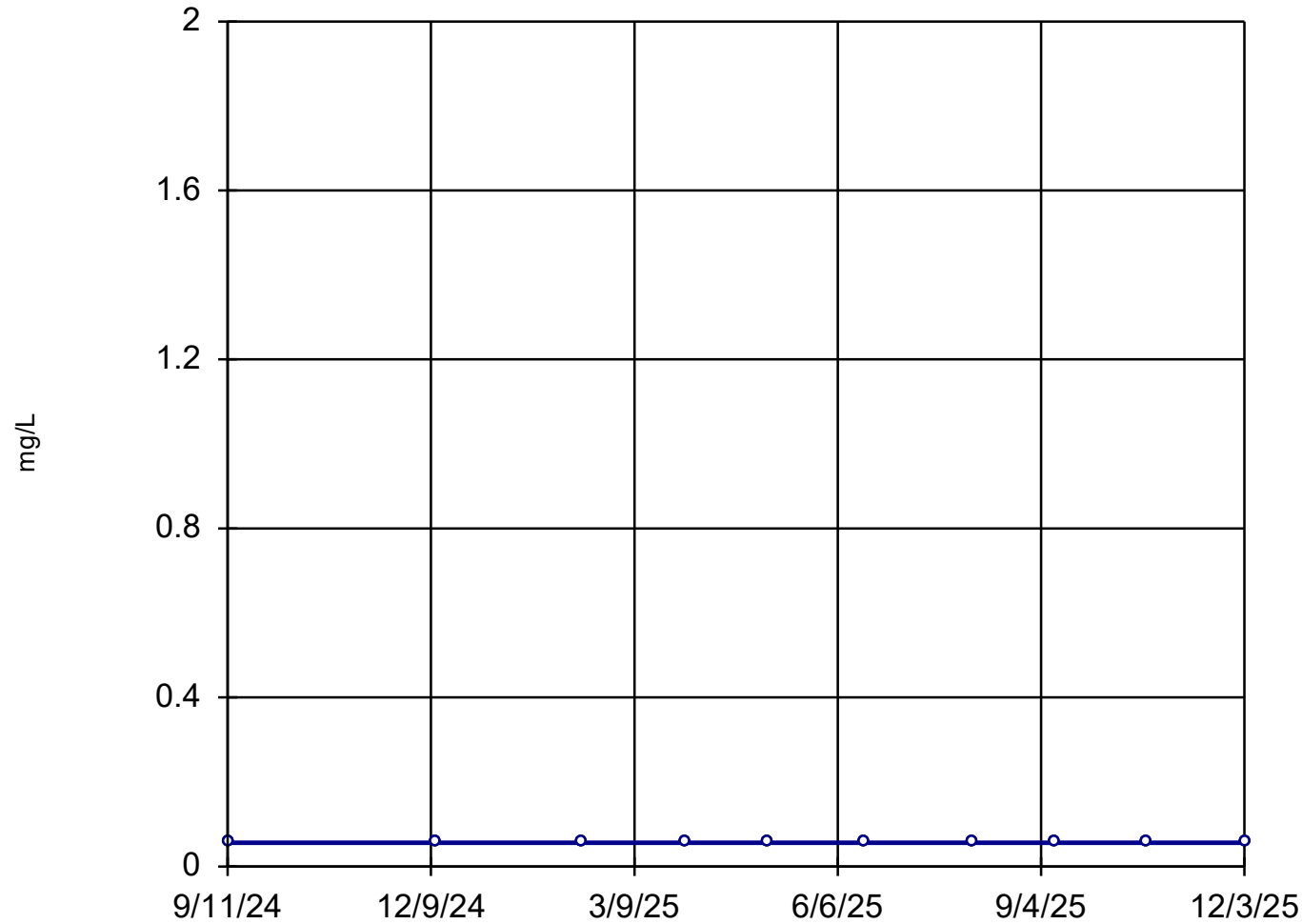
n = 8
Slope = -0.2774
units per year.
Mann-Kendall
statistic = -15
critical = -20
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Iron, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-6S



n = 10

Slope = 0
units per year.

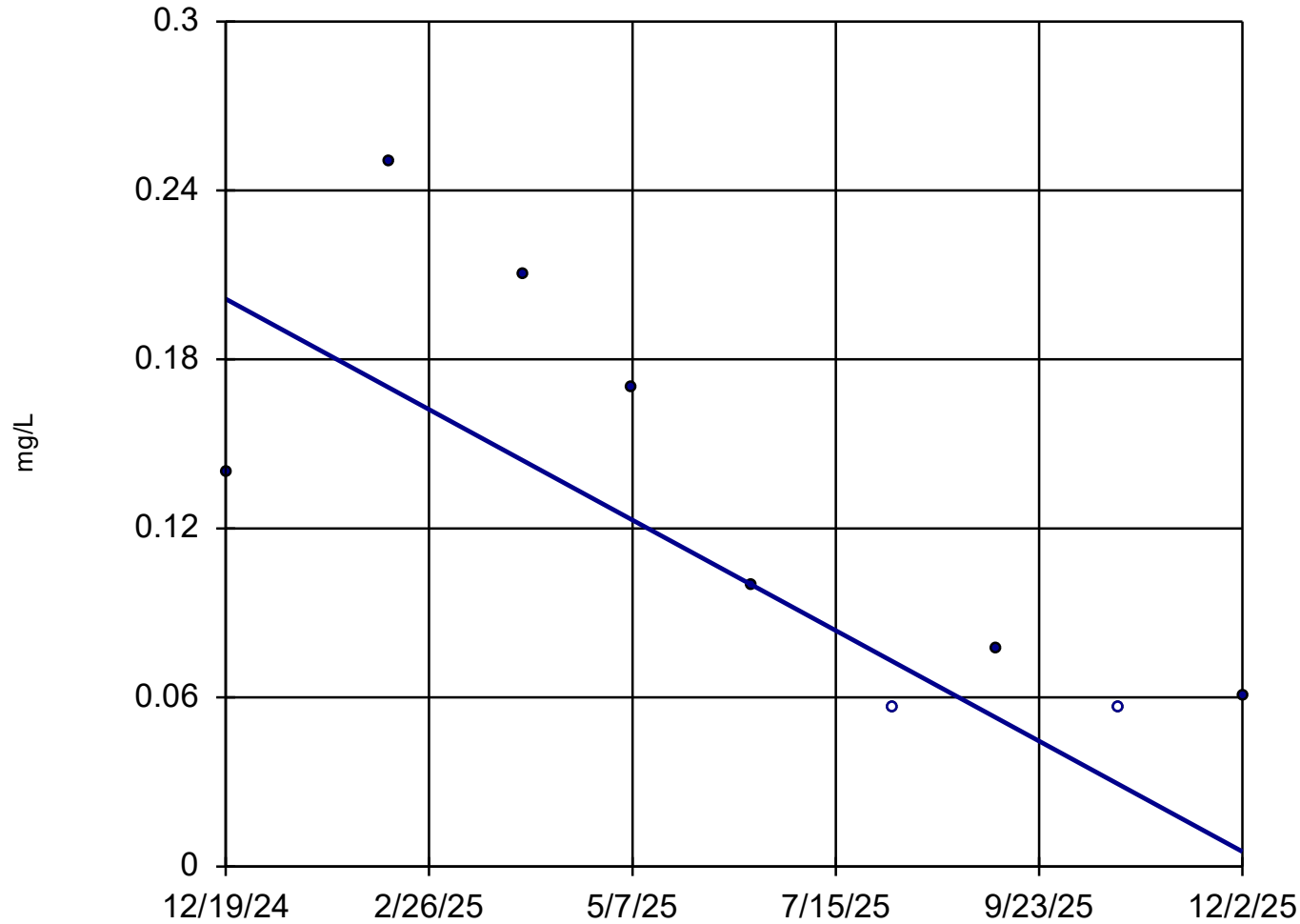
Mann-Kendall
statistic = 0
critical = 27

Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Iron, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-7D

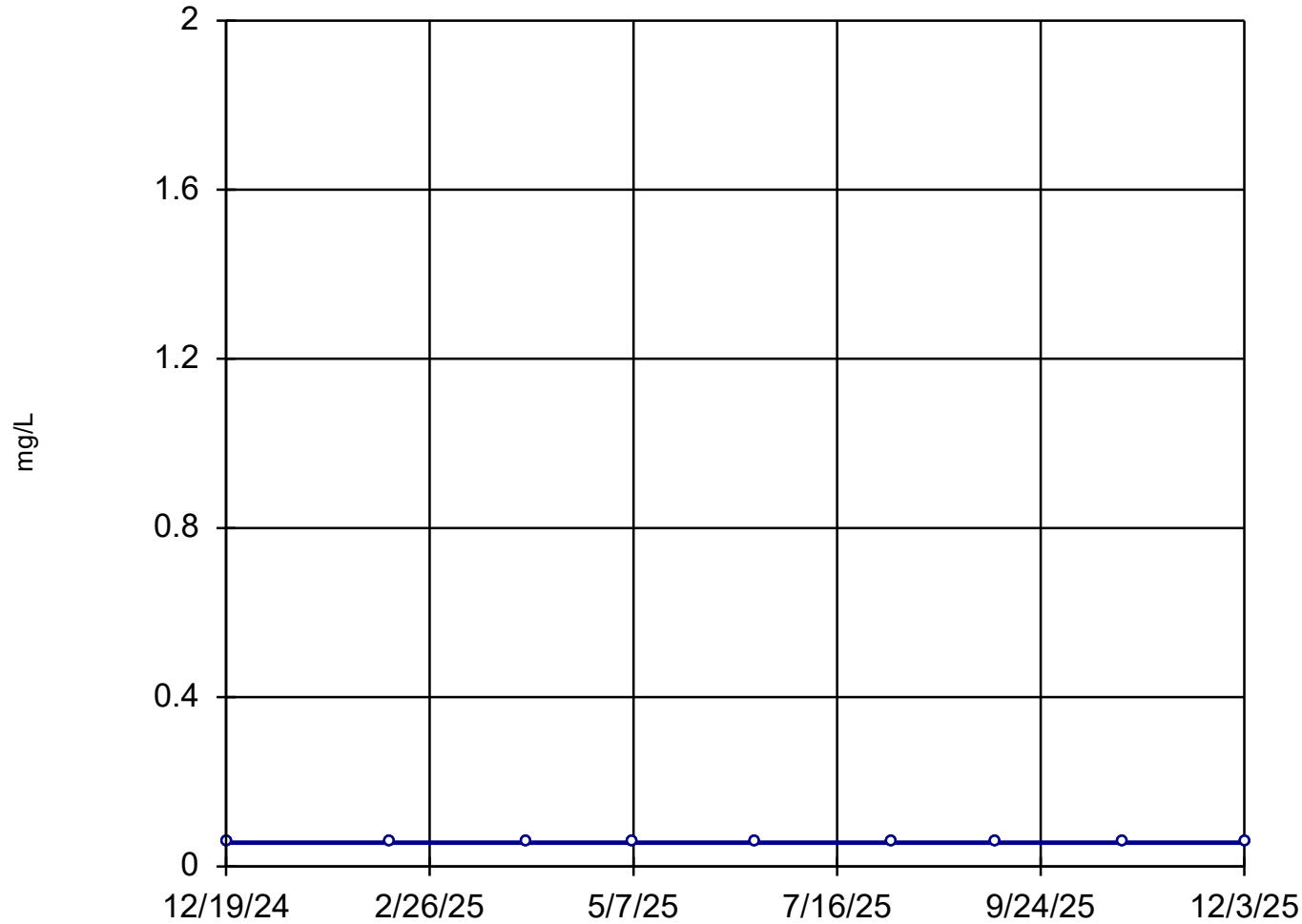


n = 9
Slope = -0.2057
units per year.
Mann-Kendall
statistic = -23
critical = -23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Iron, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-8D



n = 9

Slope = 0
units per year.

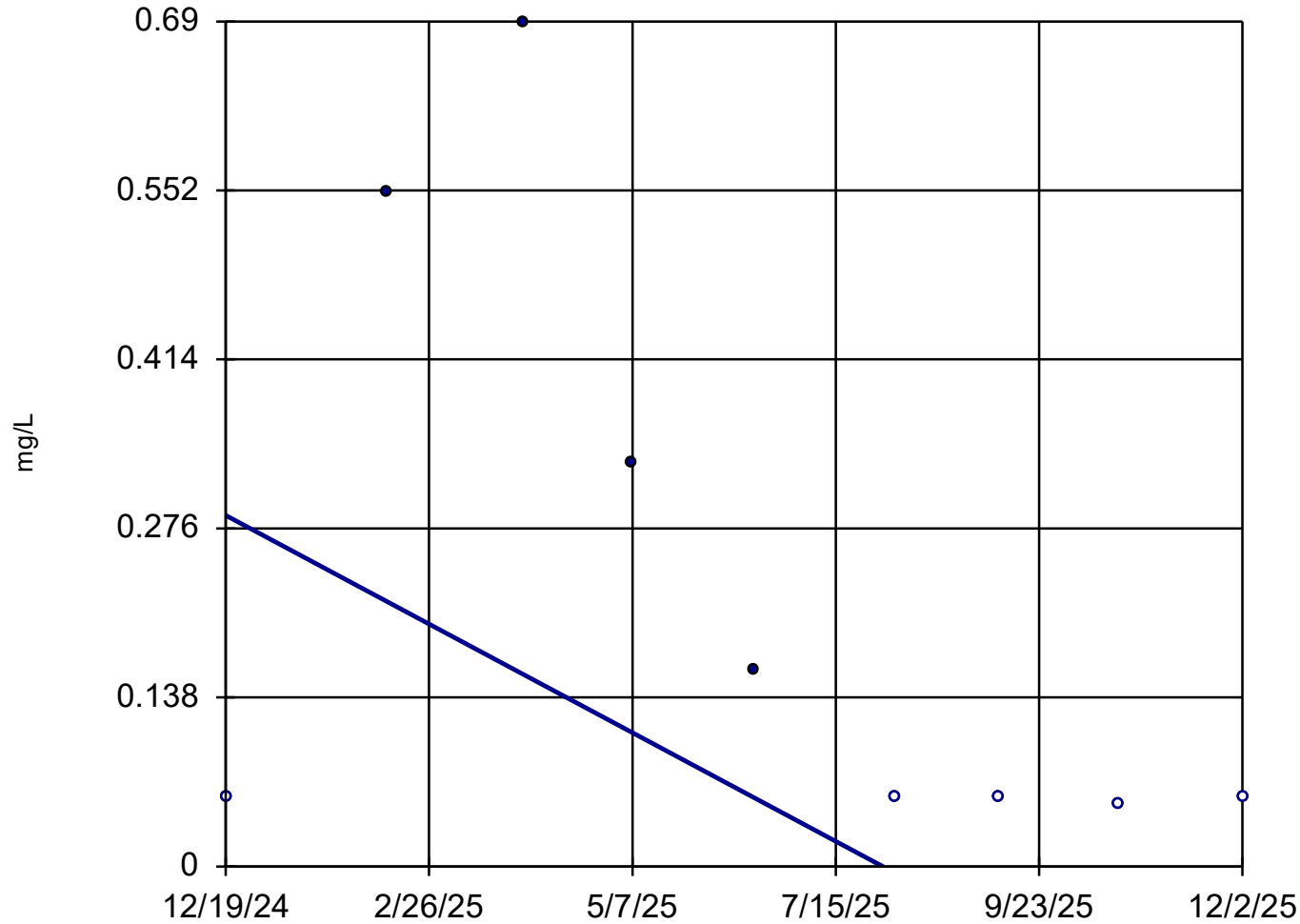
Mann-Kendall
statistic = 0
critical = 23

Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Iron, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-9D

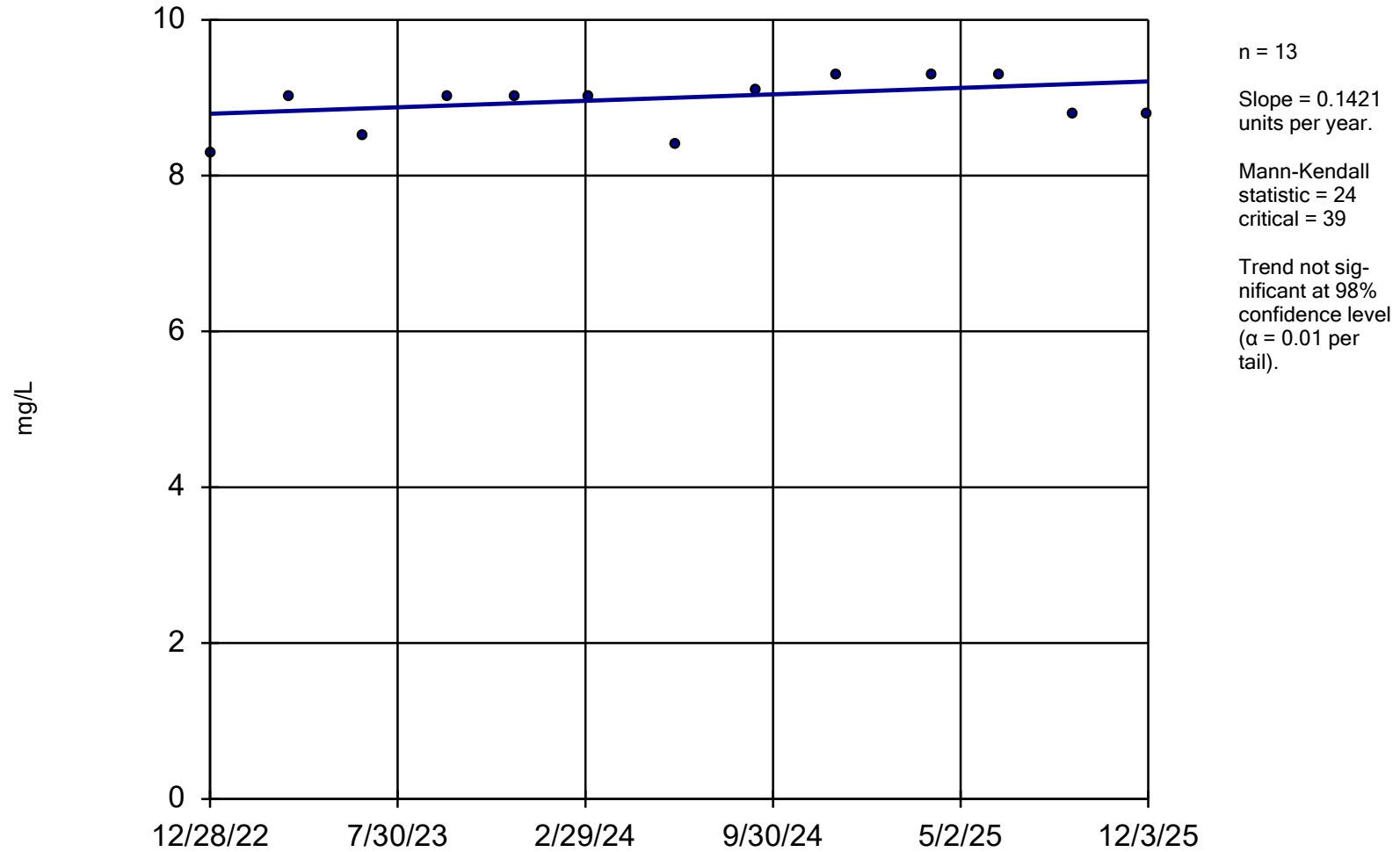


n = 9
Slope = -0.4652
units per year.
Mann-Kendall
statistic = -18
critical = -23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Iron, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

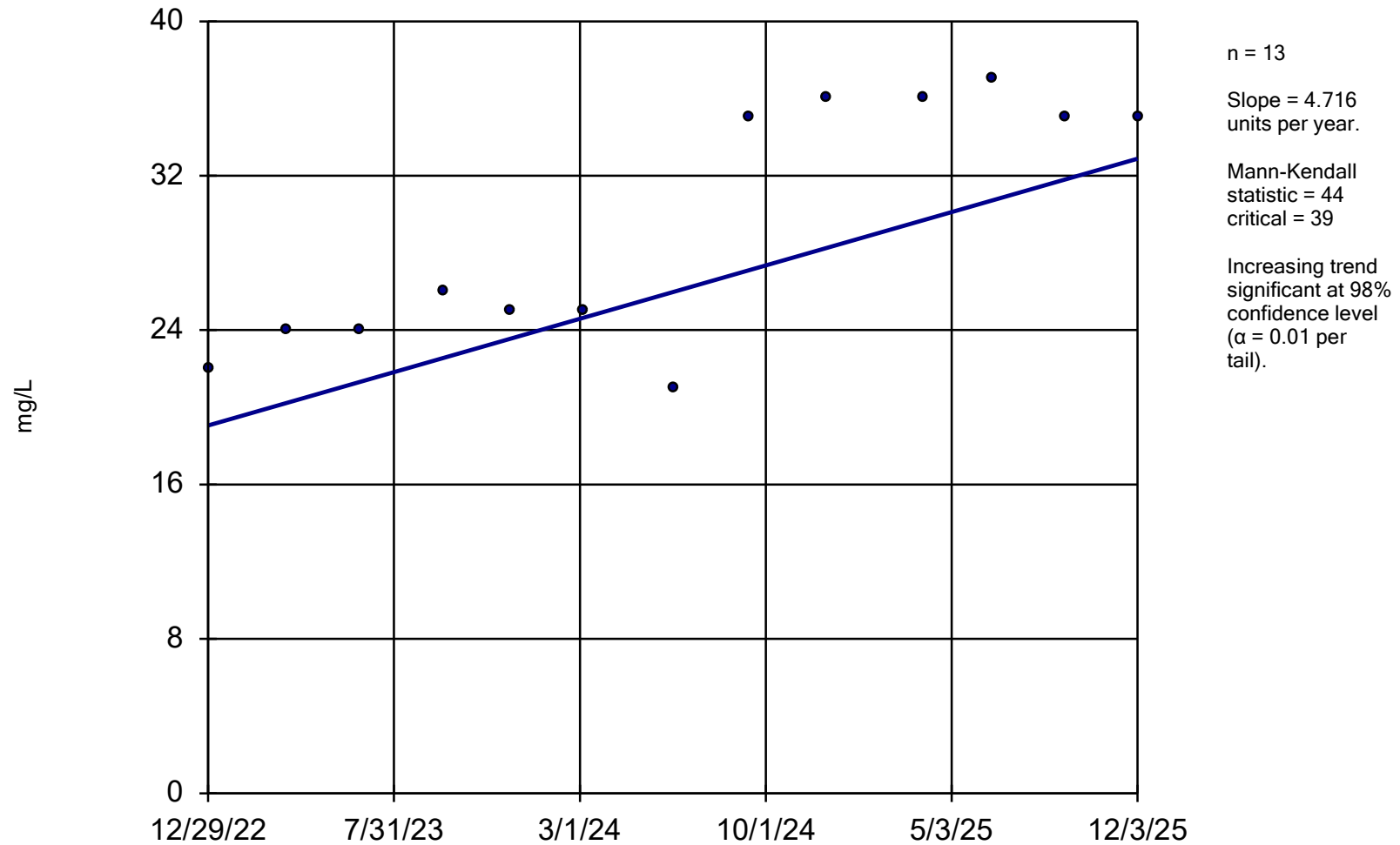
MW-2S



Constituent: Magnesium, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-3S

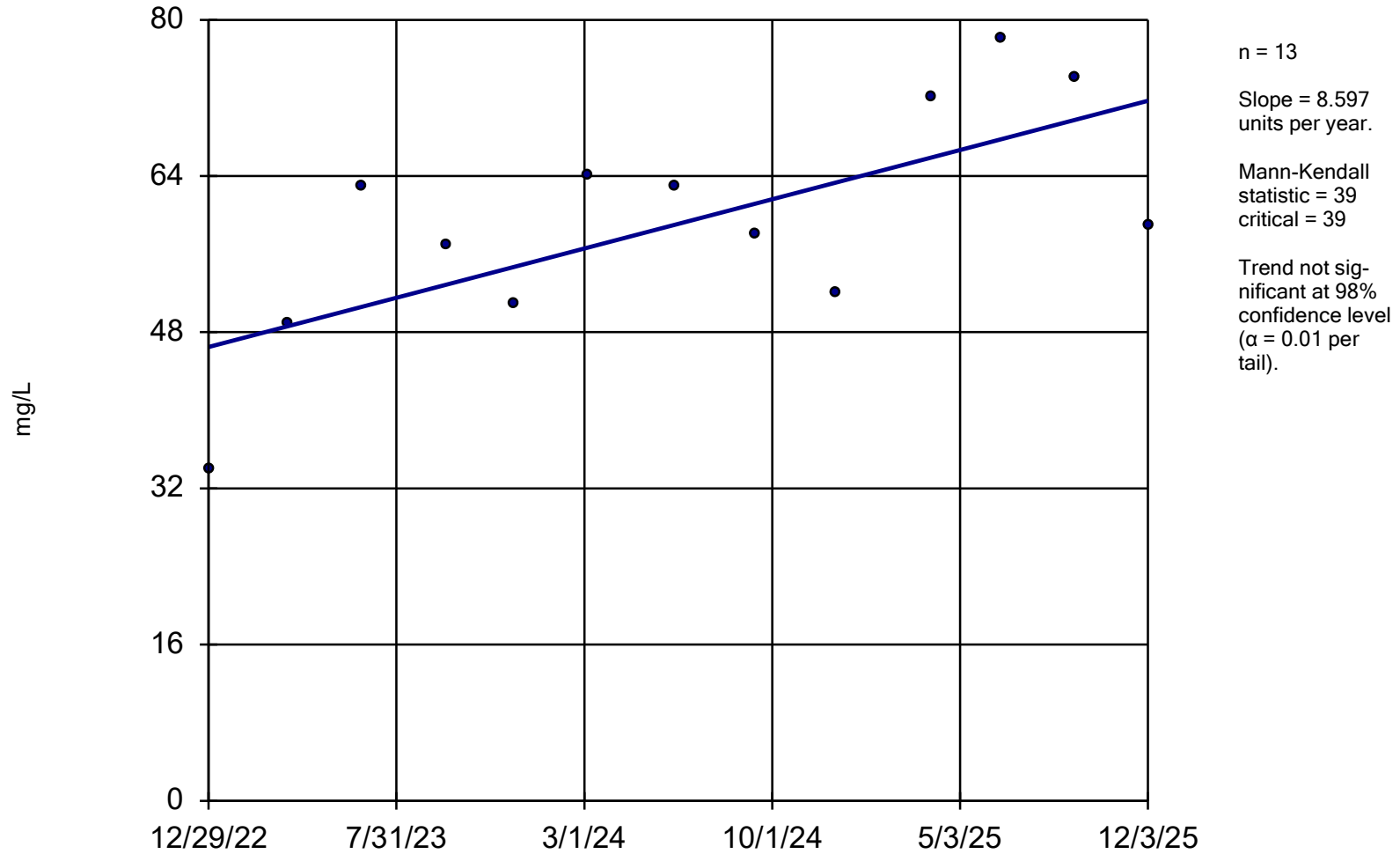


Constituent: Magnesium, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

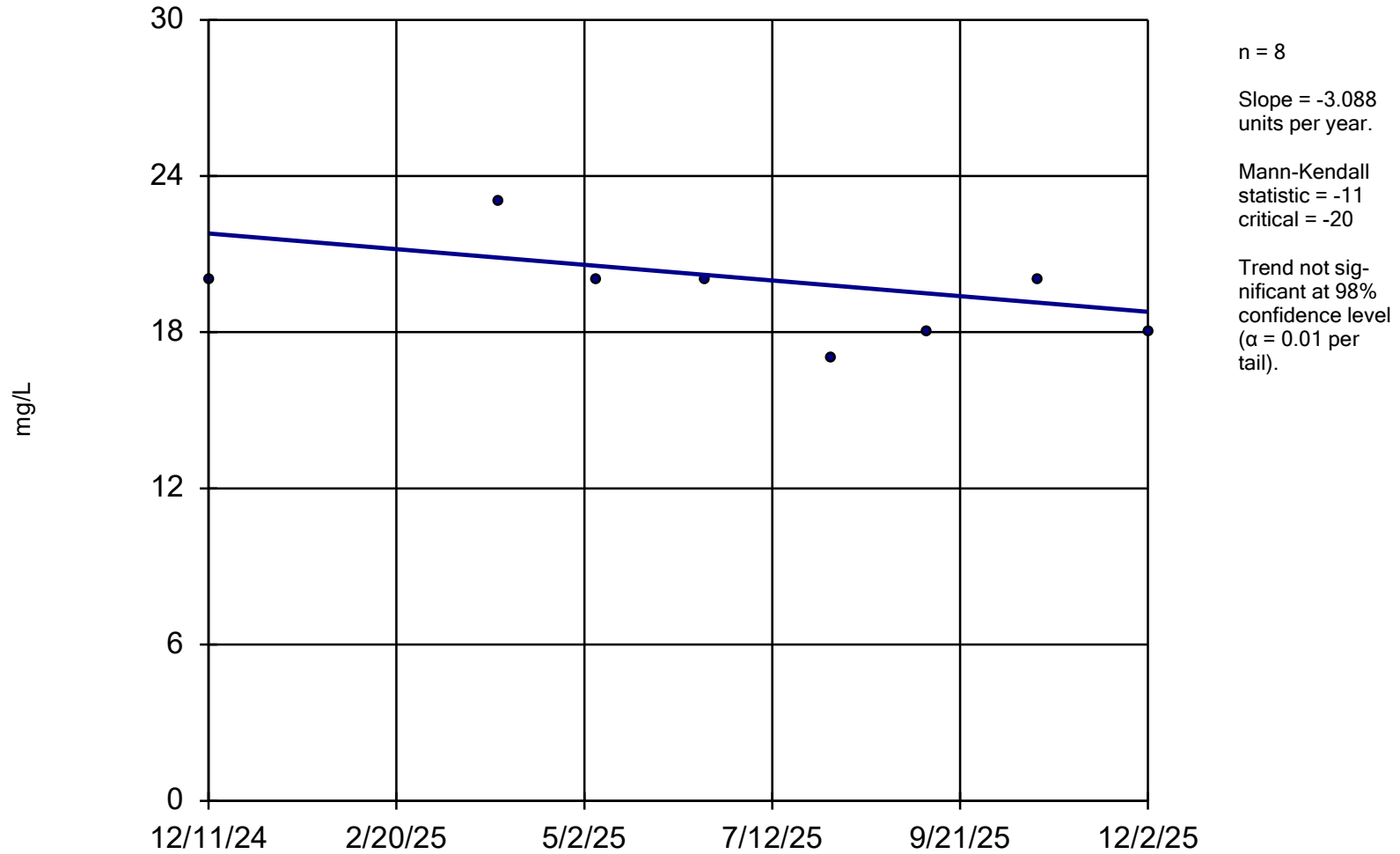
MW-4S



Constituent: Magnesium, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-5S

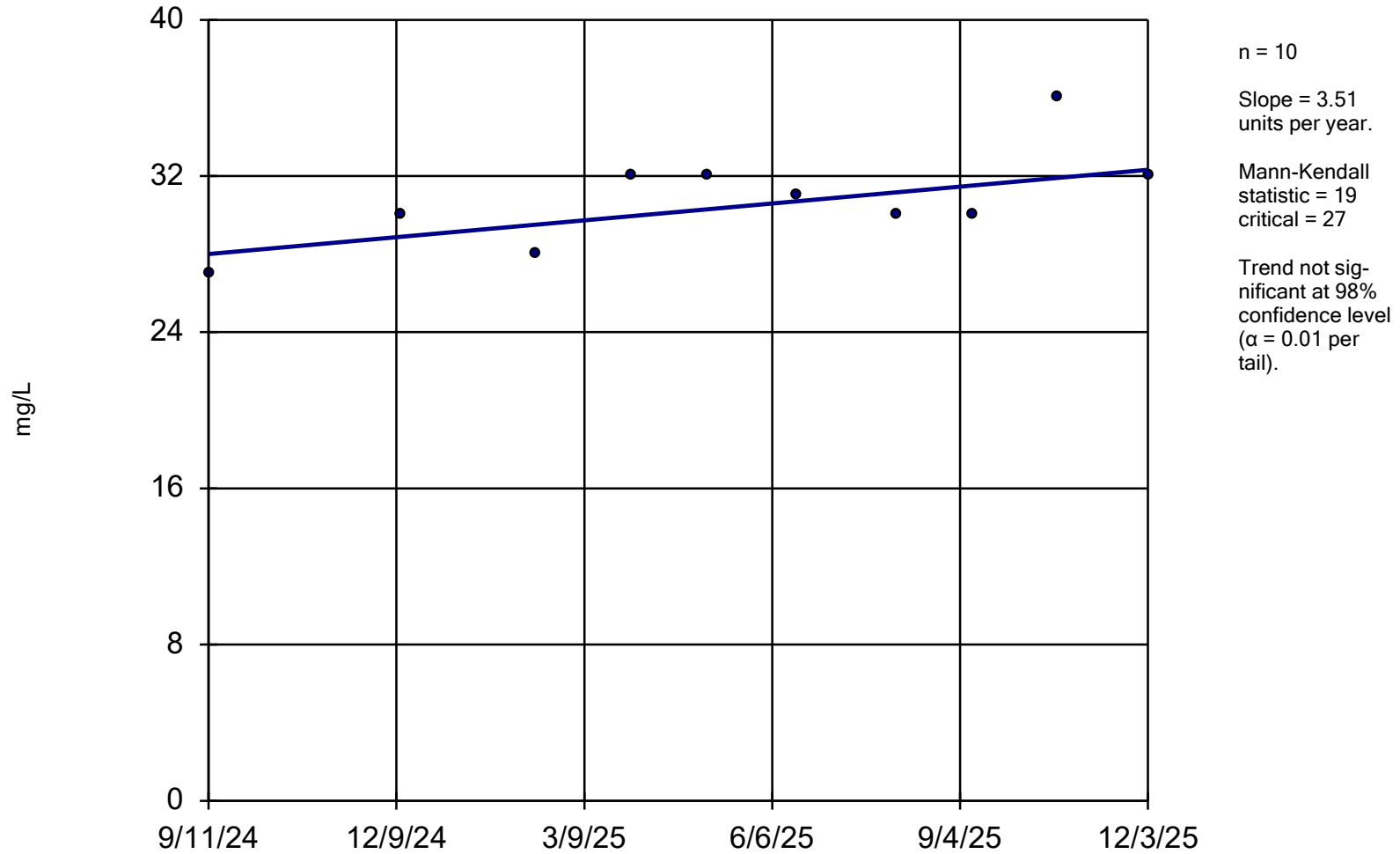


Constituent: Magnesium, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-6S

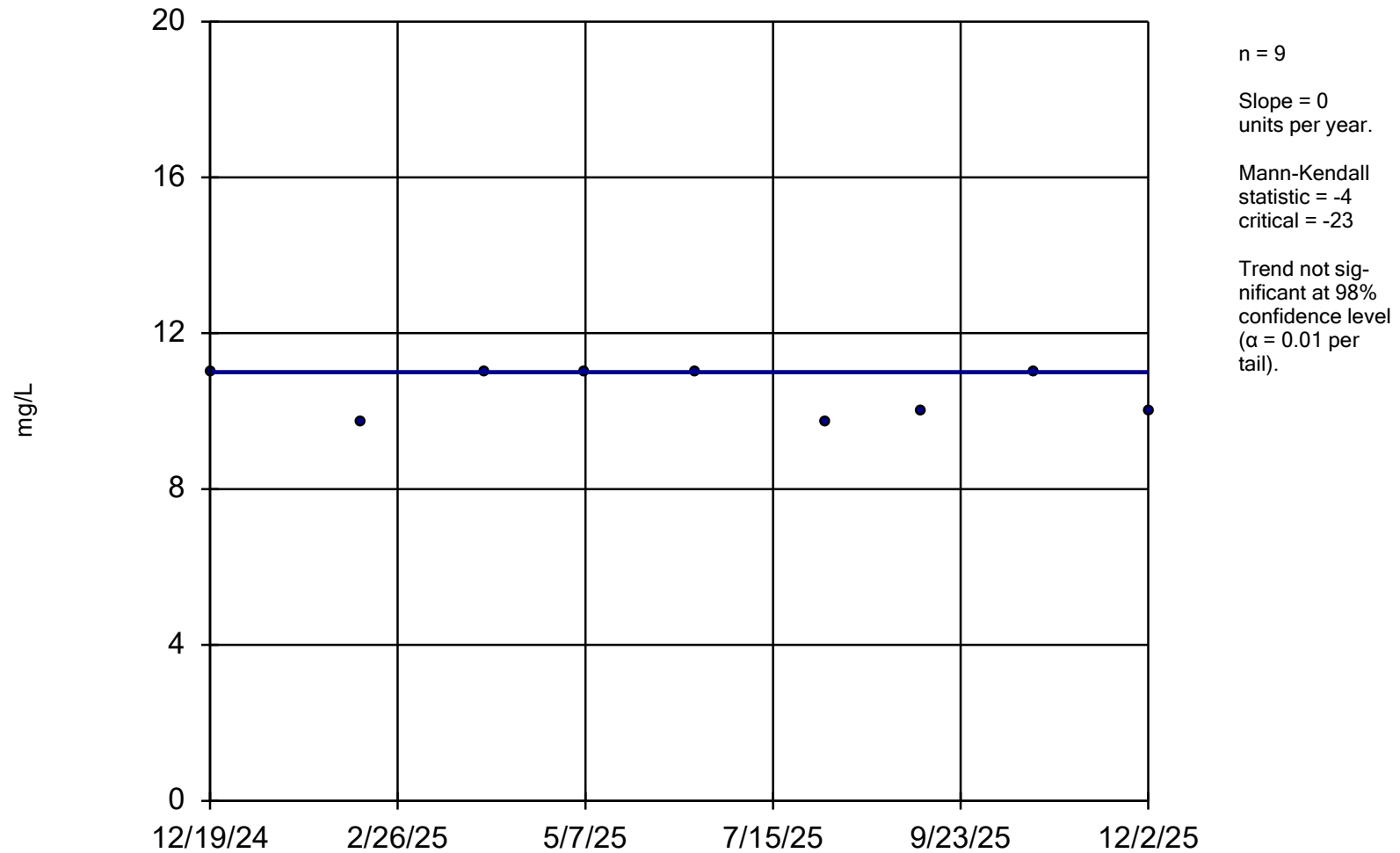


Constituent: Magnesium, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-7D

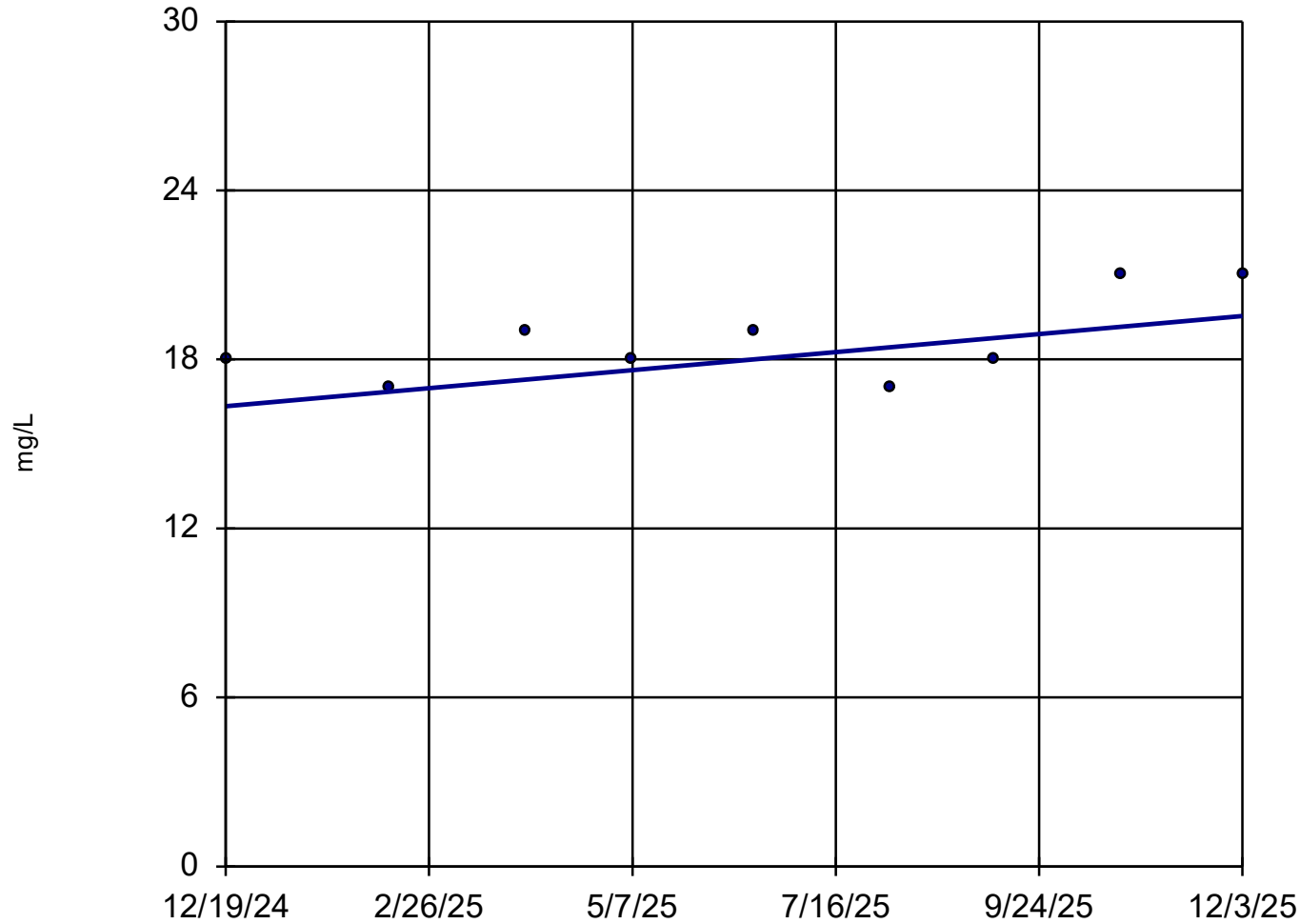


Constituent: Magnesium, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-8D

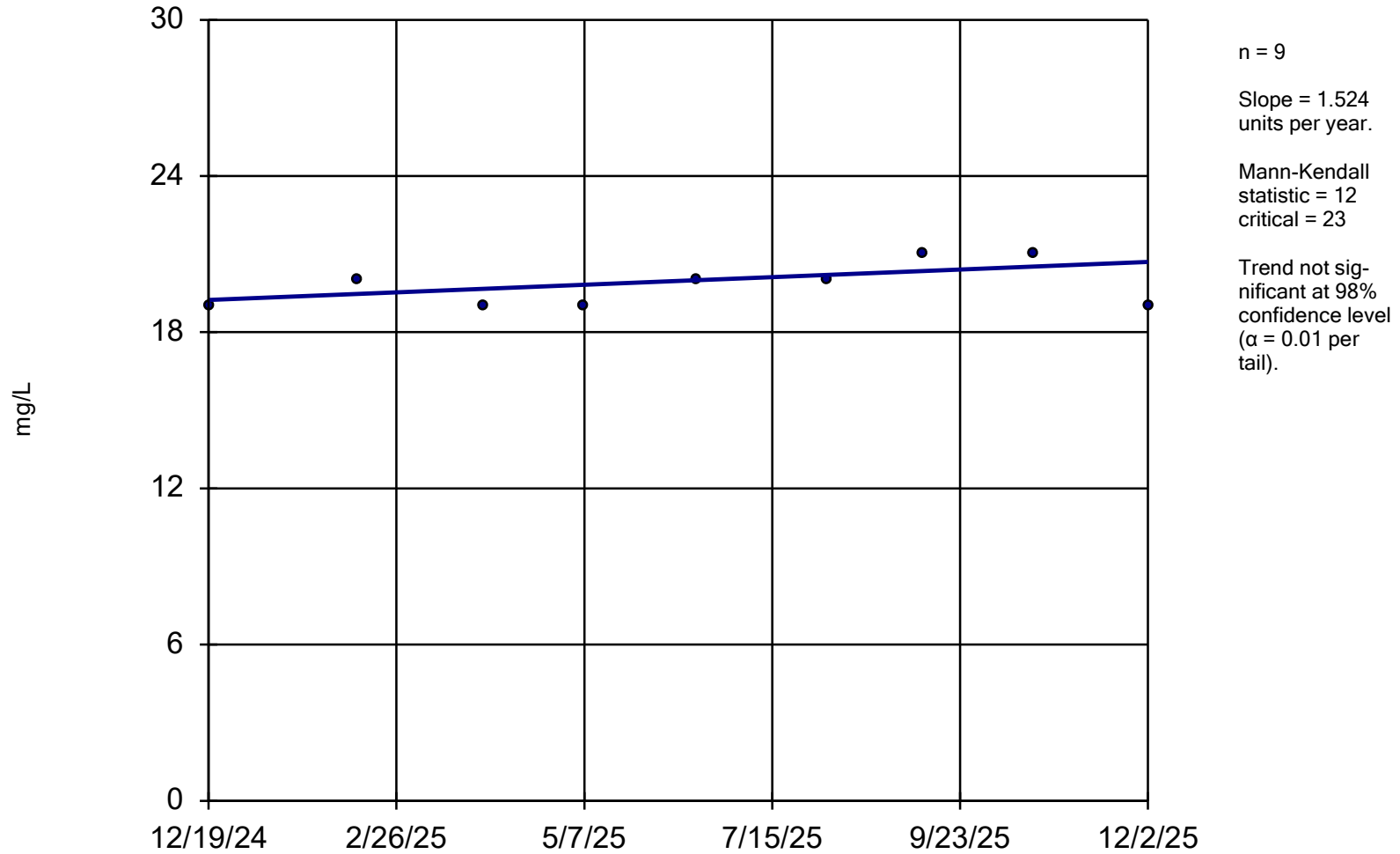


n = 9
Slope = 3.341
units per year.
Mann-Kendall
statistic = 14
critical = 23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Magnesium, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

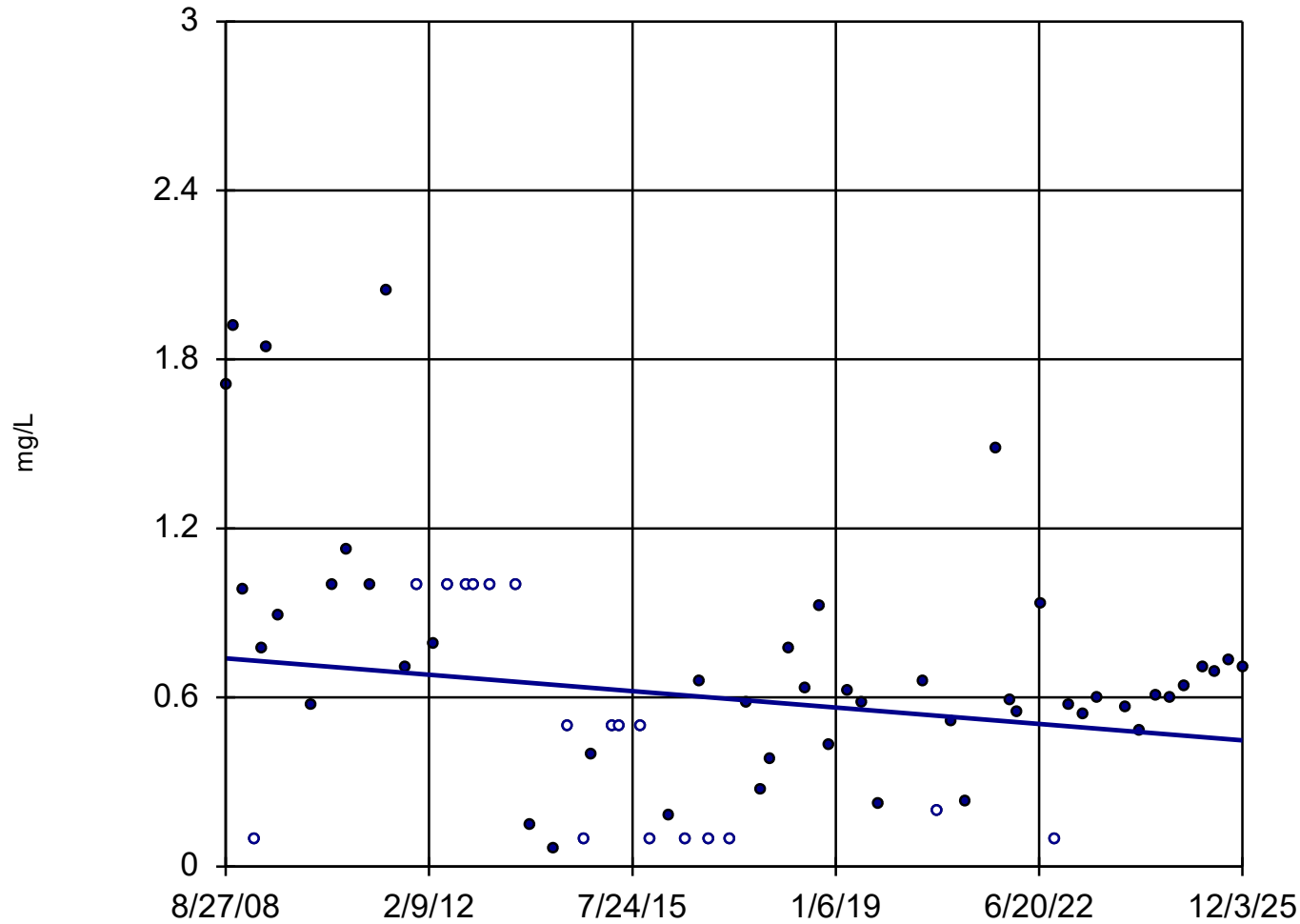
MW-9D



Constituent: Magnesium, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-2S



n = 65

Slope = -0.01682
units per year.

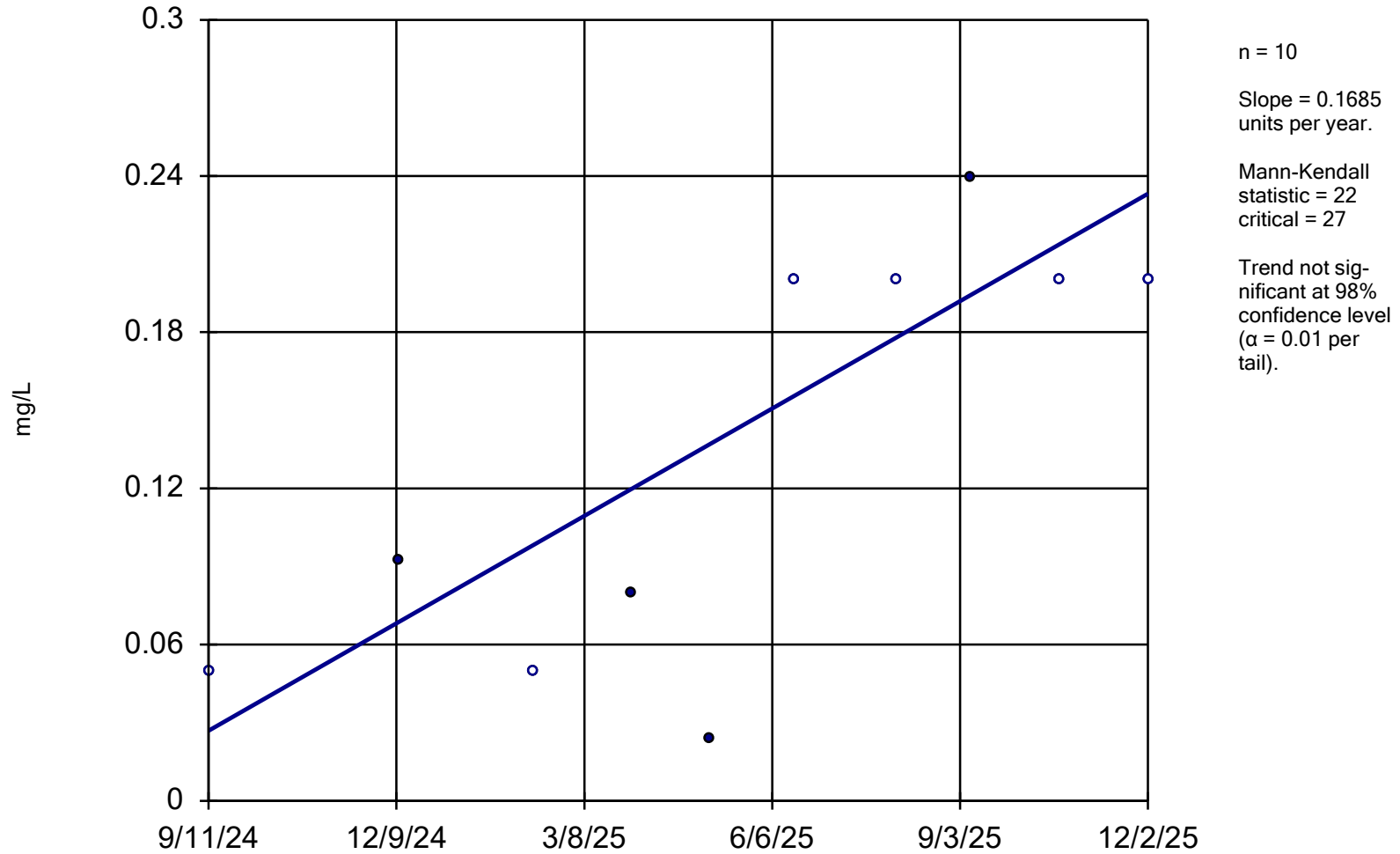
Mann-Kendall
normal approx. =
-1.844
critical = -2.33

Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Nitrate Analysis Run 3/27/2026 10:05 AM View: Initial Background Evaluation
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

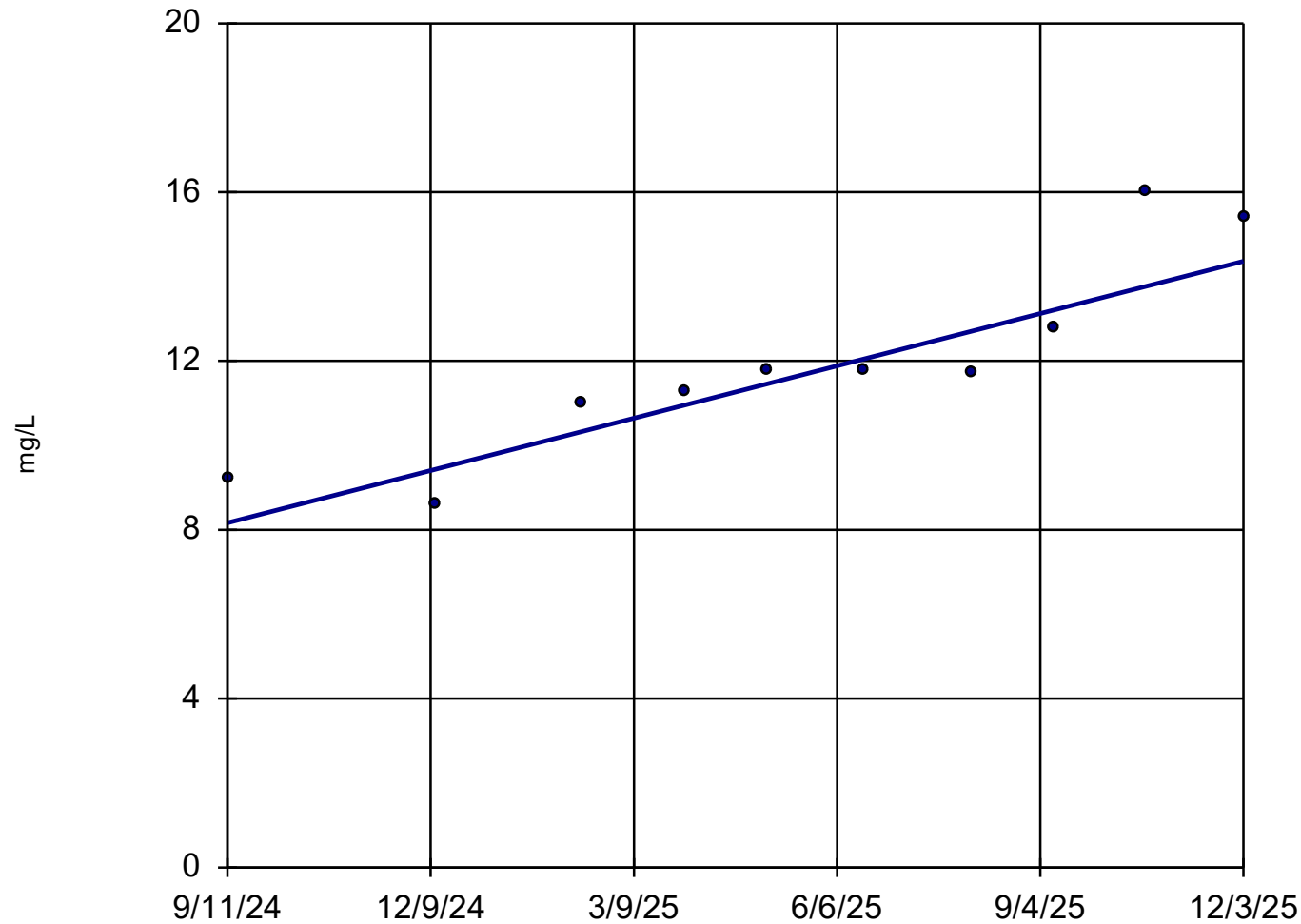
MW-5S



Constituent: Nitrate Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-6S



n = 10

Slope = 5.051
units per year.

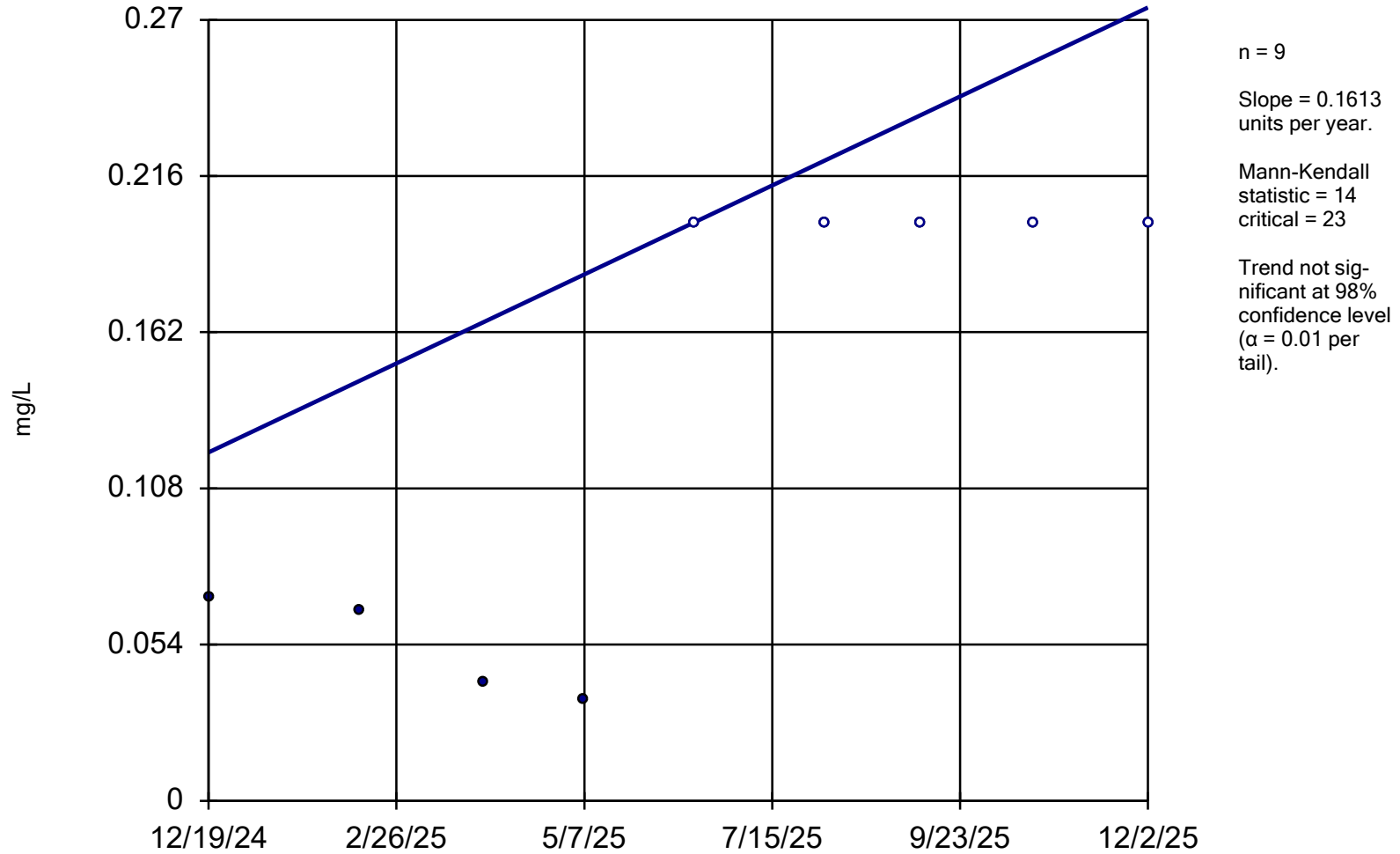
Mann-Kendall
statistic = 36
critical = 27

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Nitrate Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

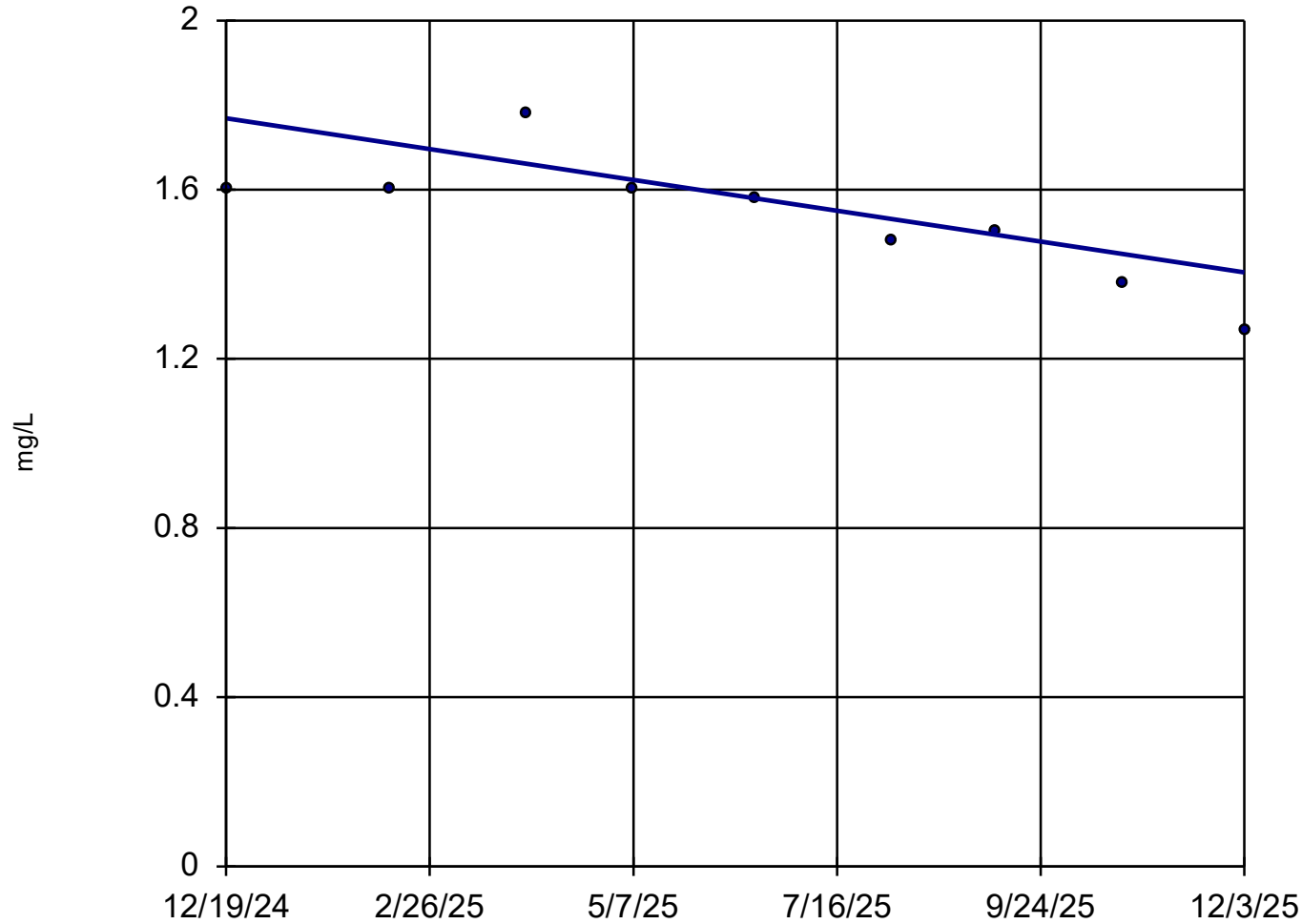
MW-7D



Constituent: Nitrate Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-8D



n = 9

Slope = -0.3814
units per year.

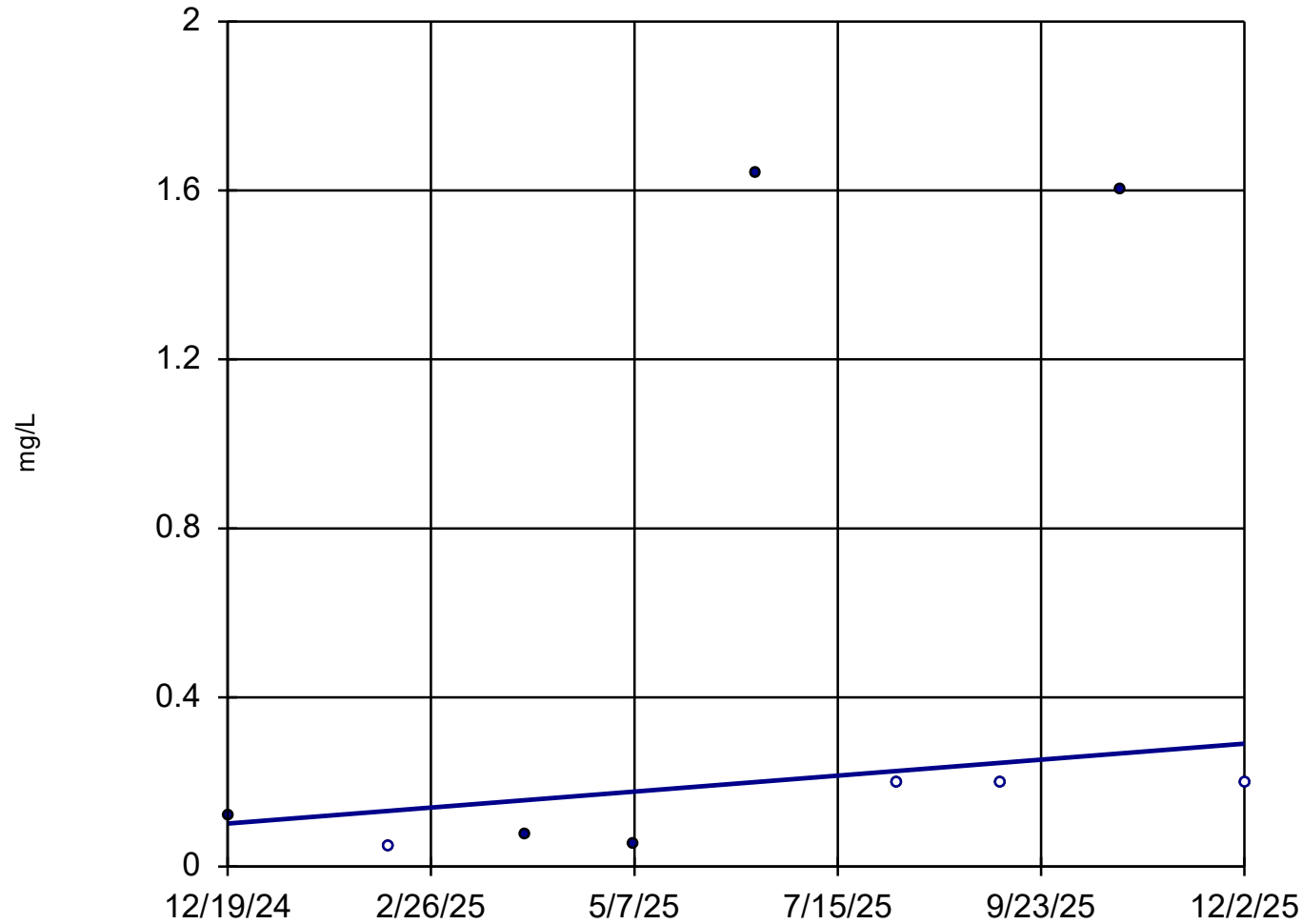
Mann-Kendall
statistic = -27
critical = -23

Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Nitrate Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-9D

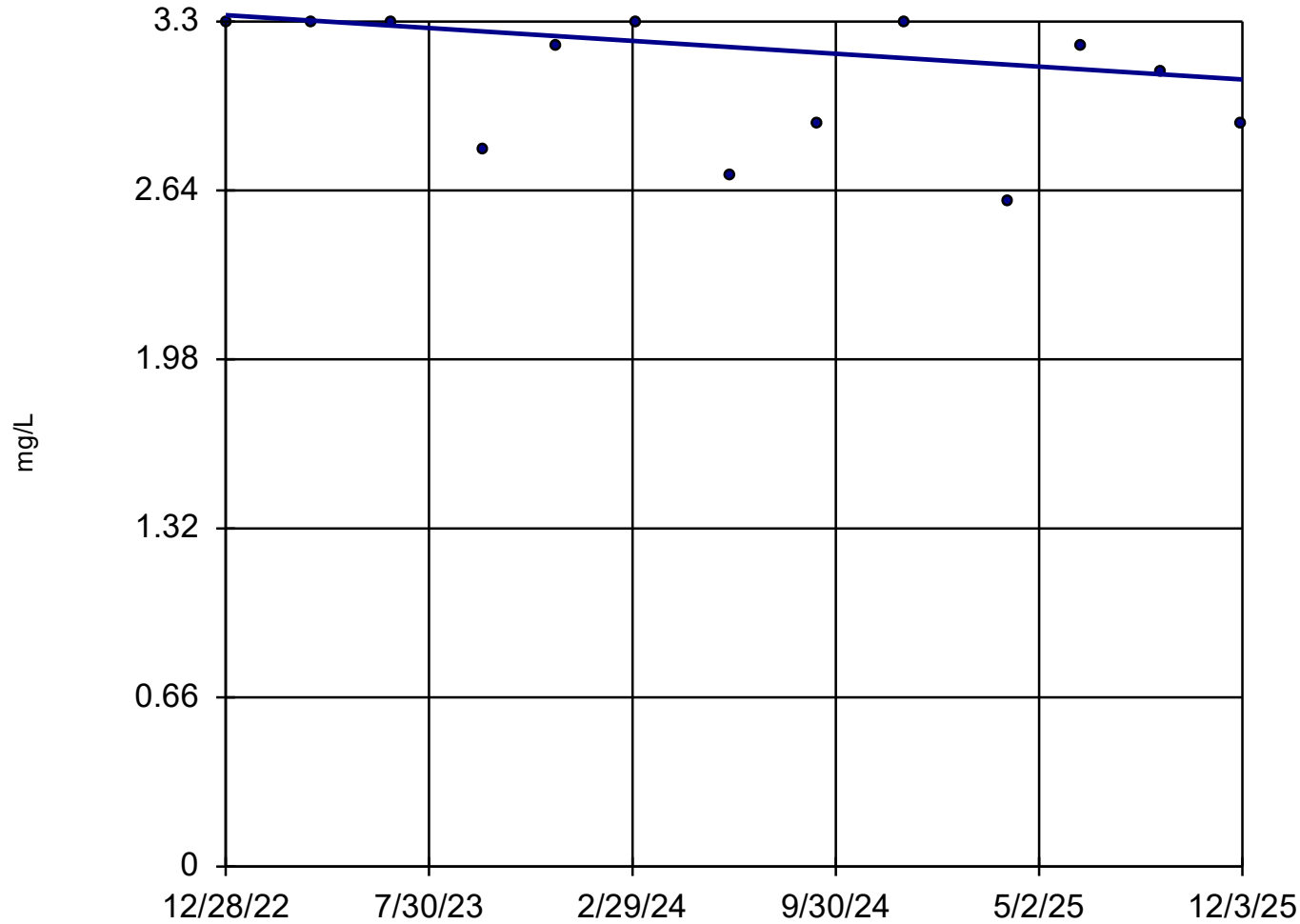


n = 9
Slope = 0.1983
units per year.
Mann-Kendall
statistic = 15
critical = 23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Nitrate Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-2S

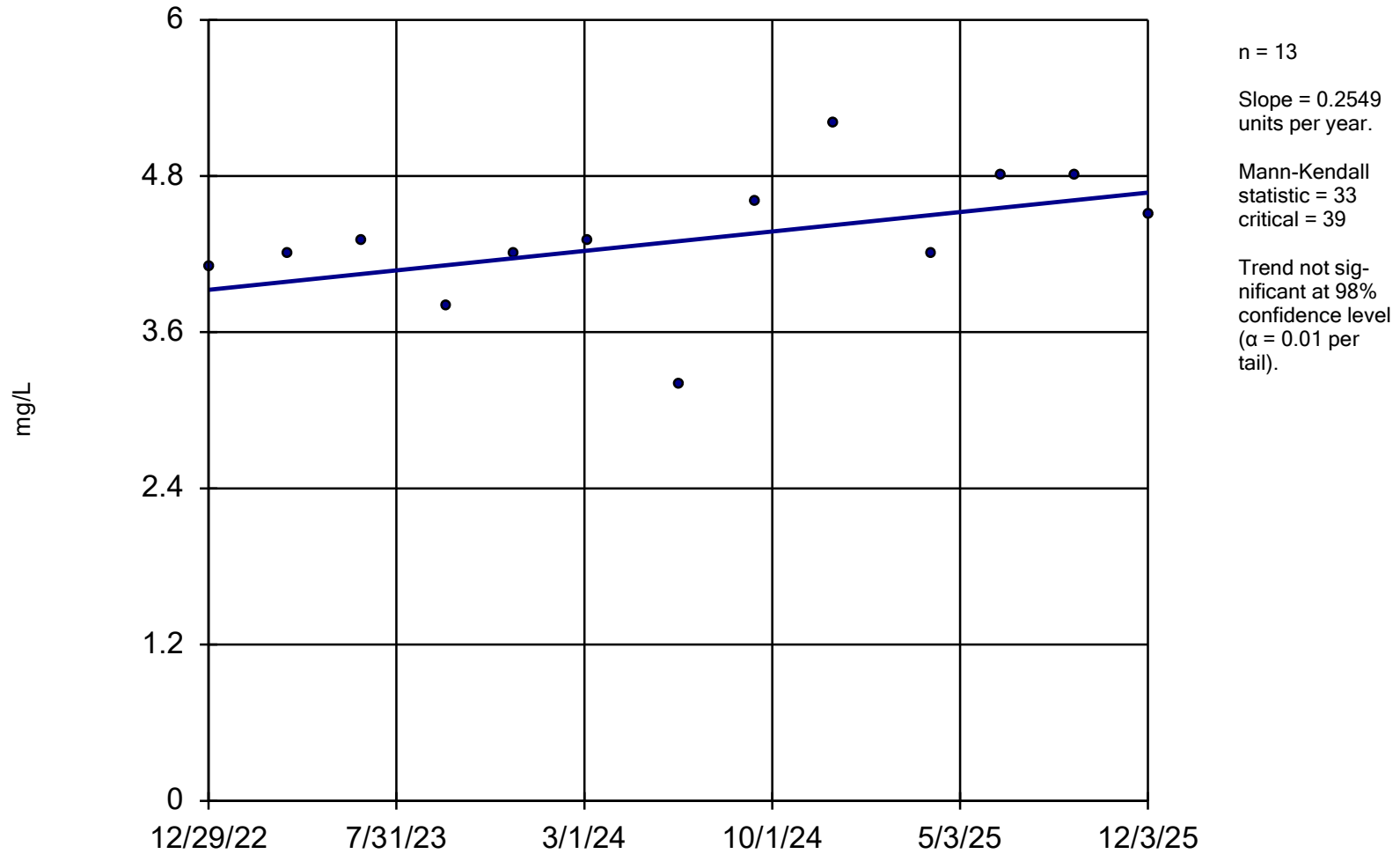


n = 13
Slope = -0.08579
units per year.
Mann-Kendall
statistic = -26
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Potassium, Dissolved Analysis Run 3/22/2026 4:12 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

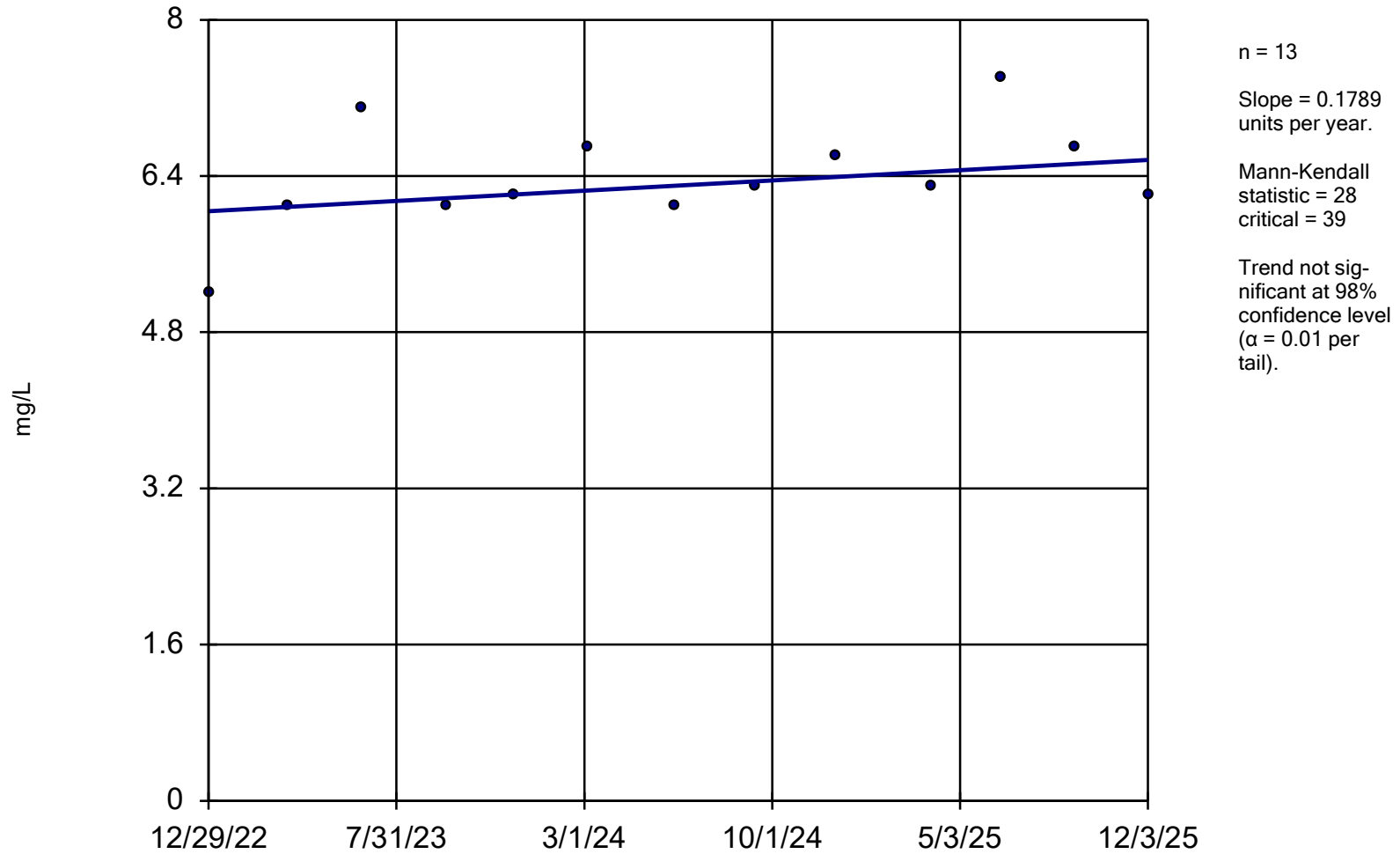
MW-3S



Constituent: Potassium, Dissolved Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

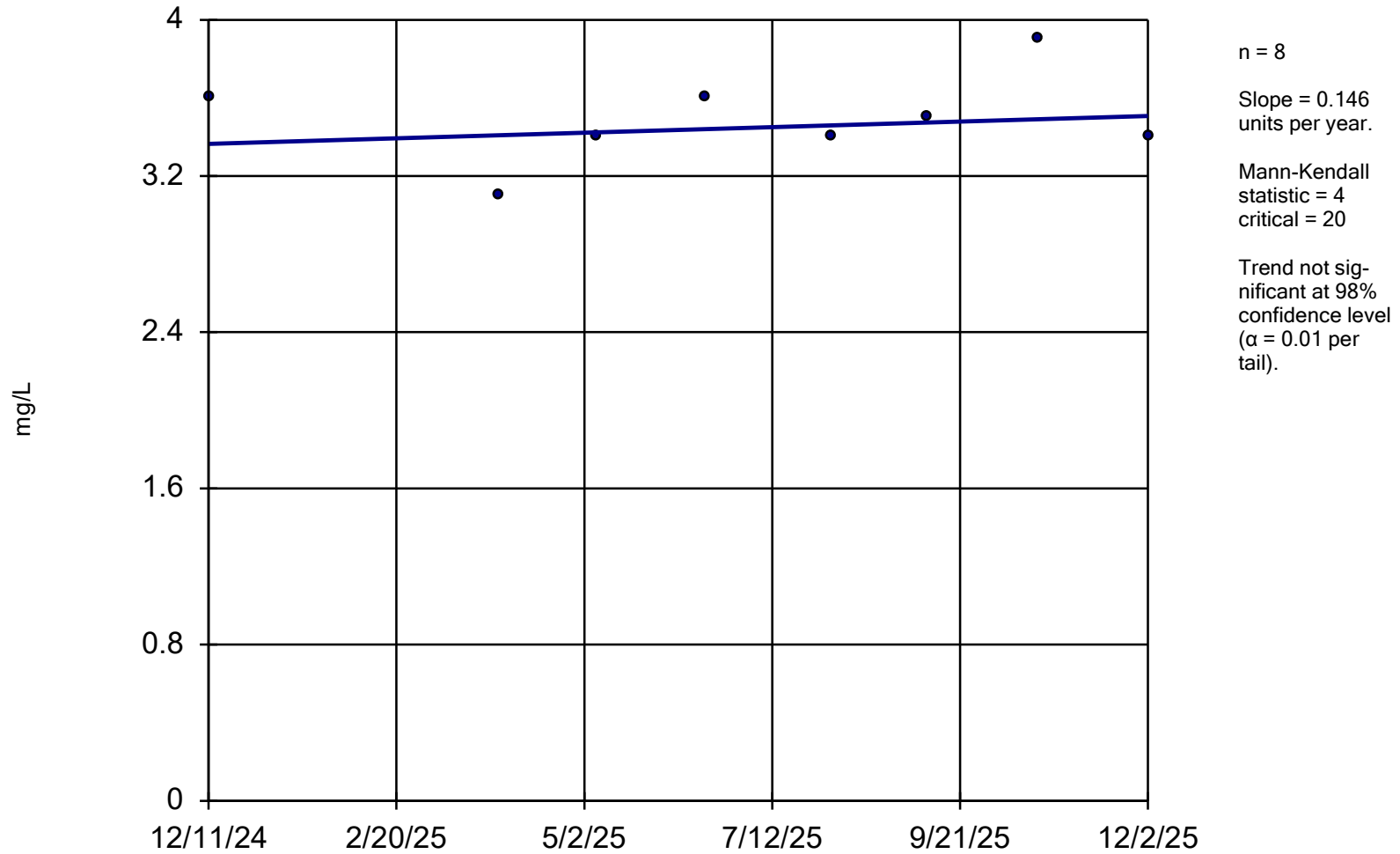
MW-4S



Constituent: Potassium, Dissolved Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

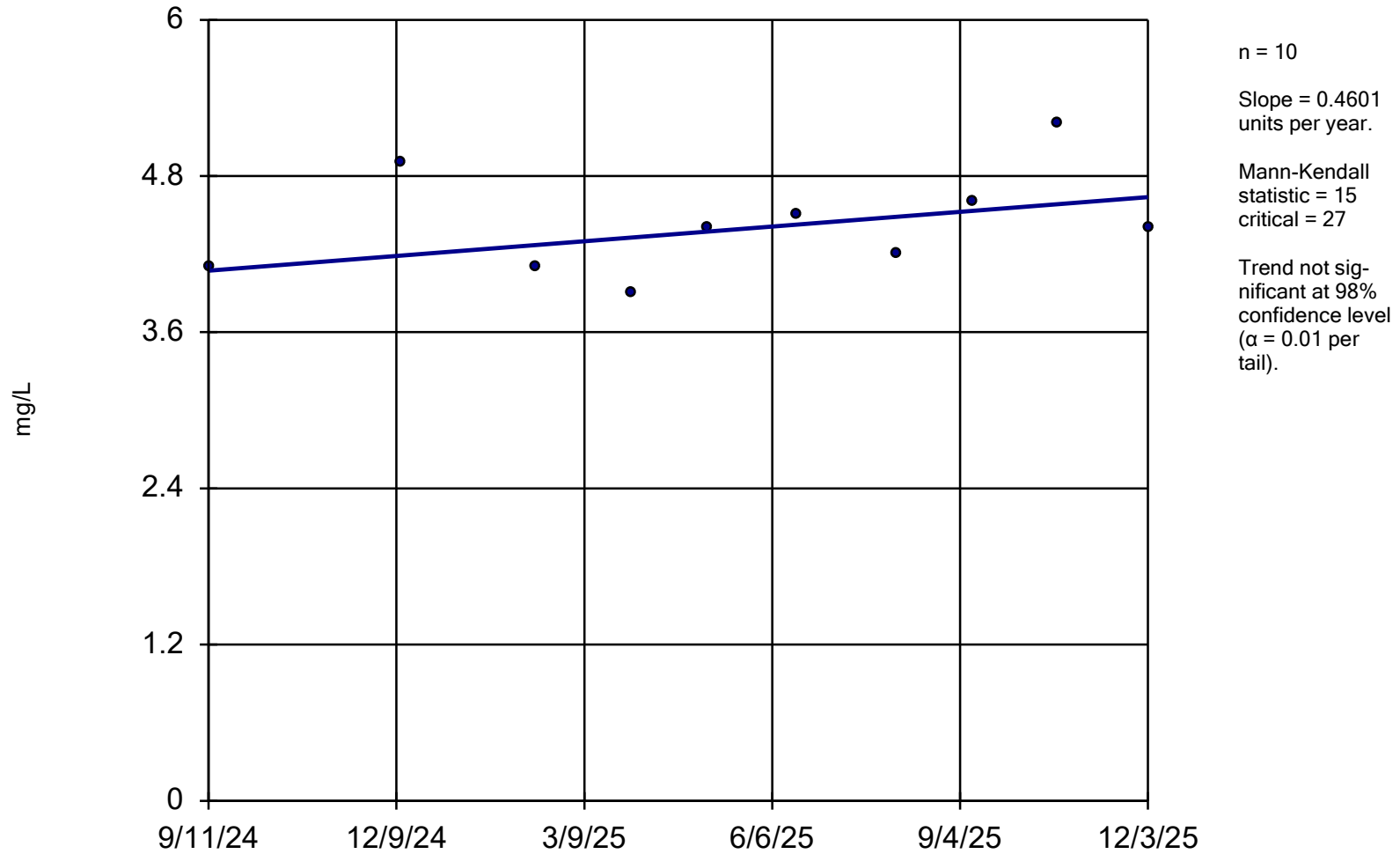
MW-5S



Constituent: Potassium, Dissolved Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

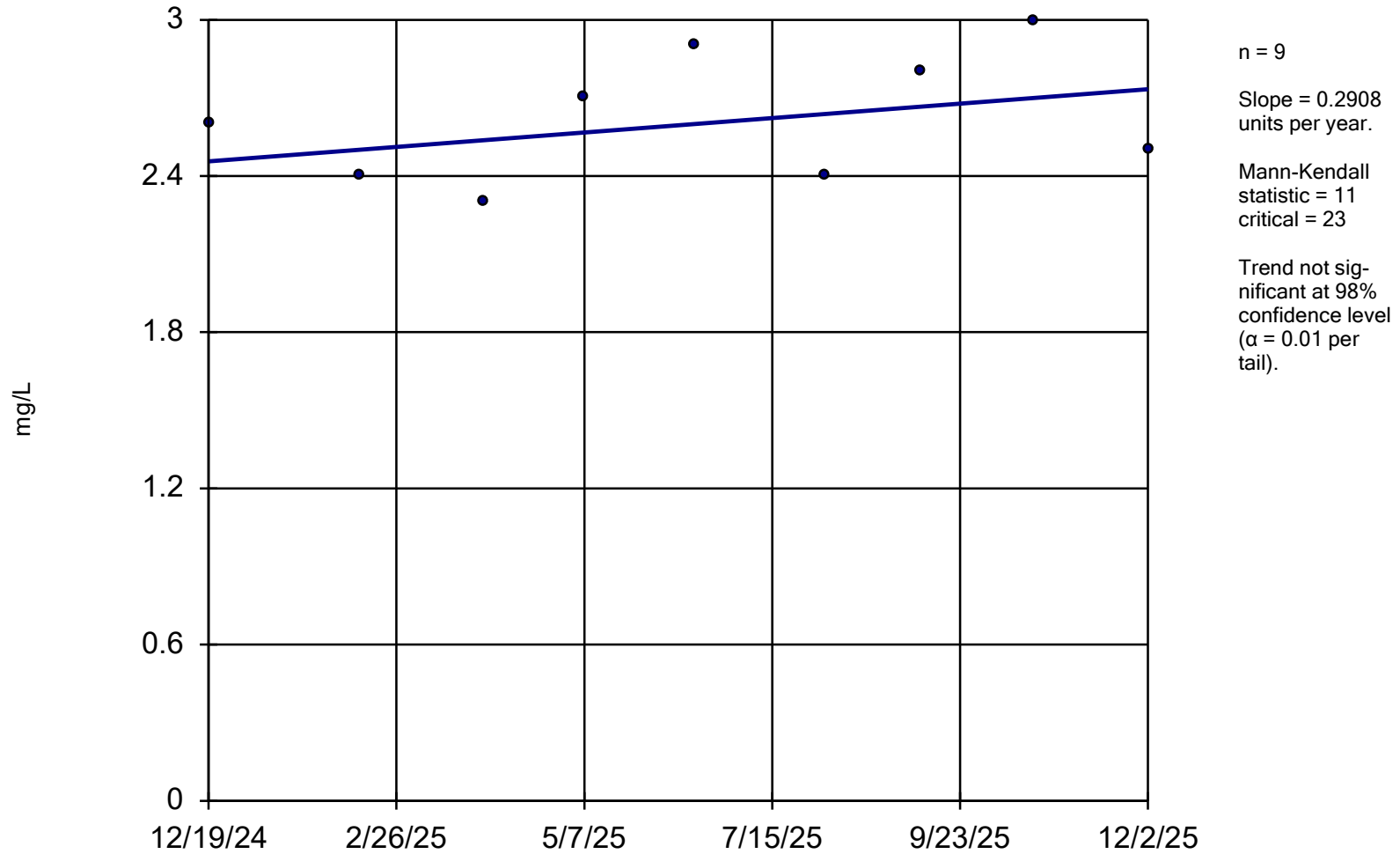
MW-6S



Constituent: Potassium, Dissolved Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

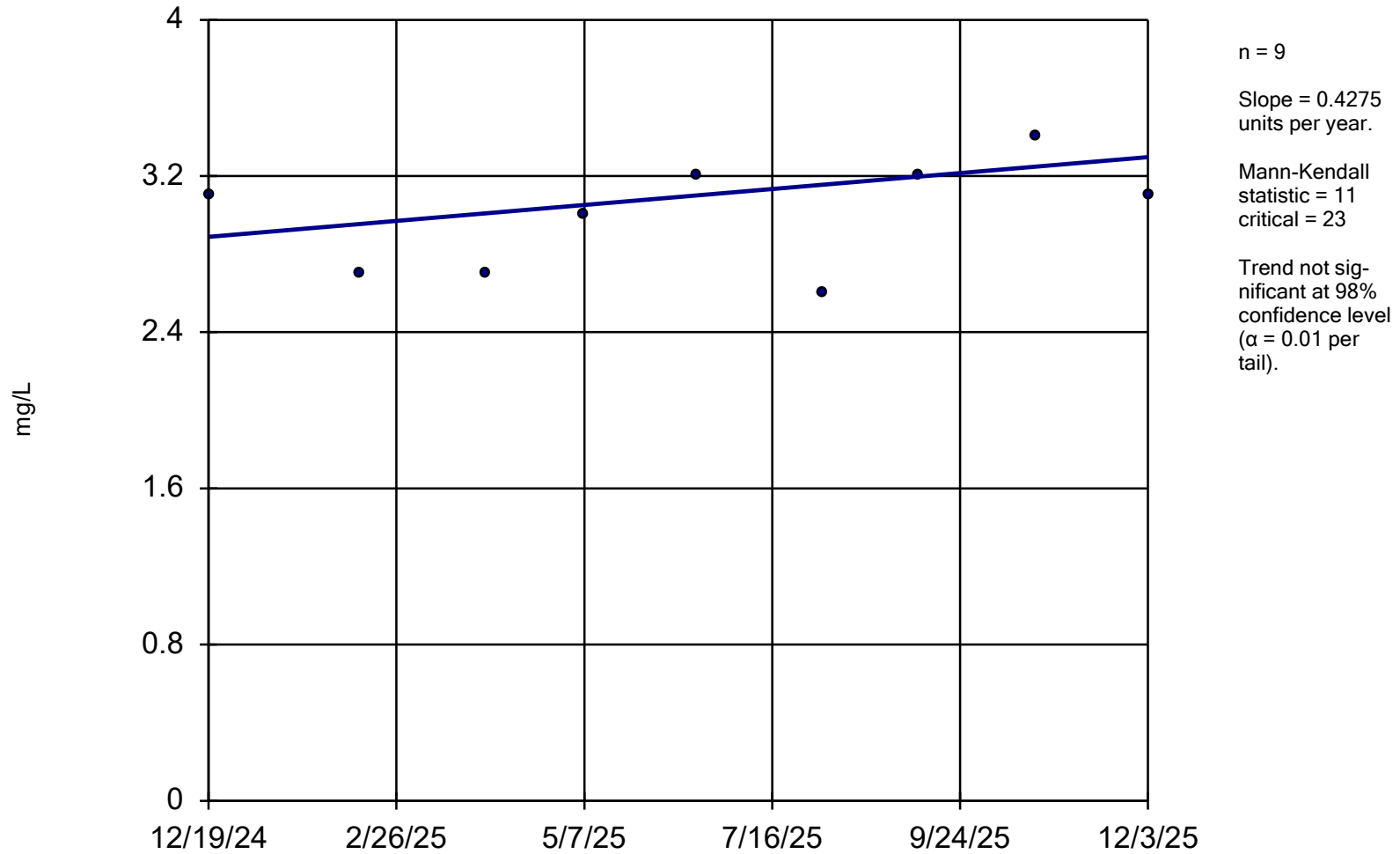
MW-7D



Constituent: Potassium, Dissolved Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

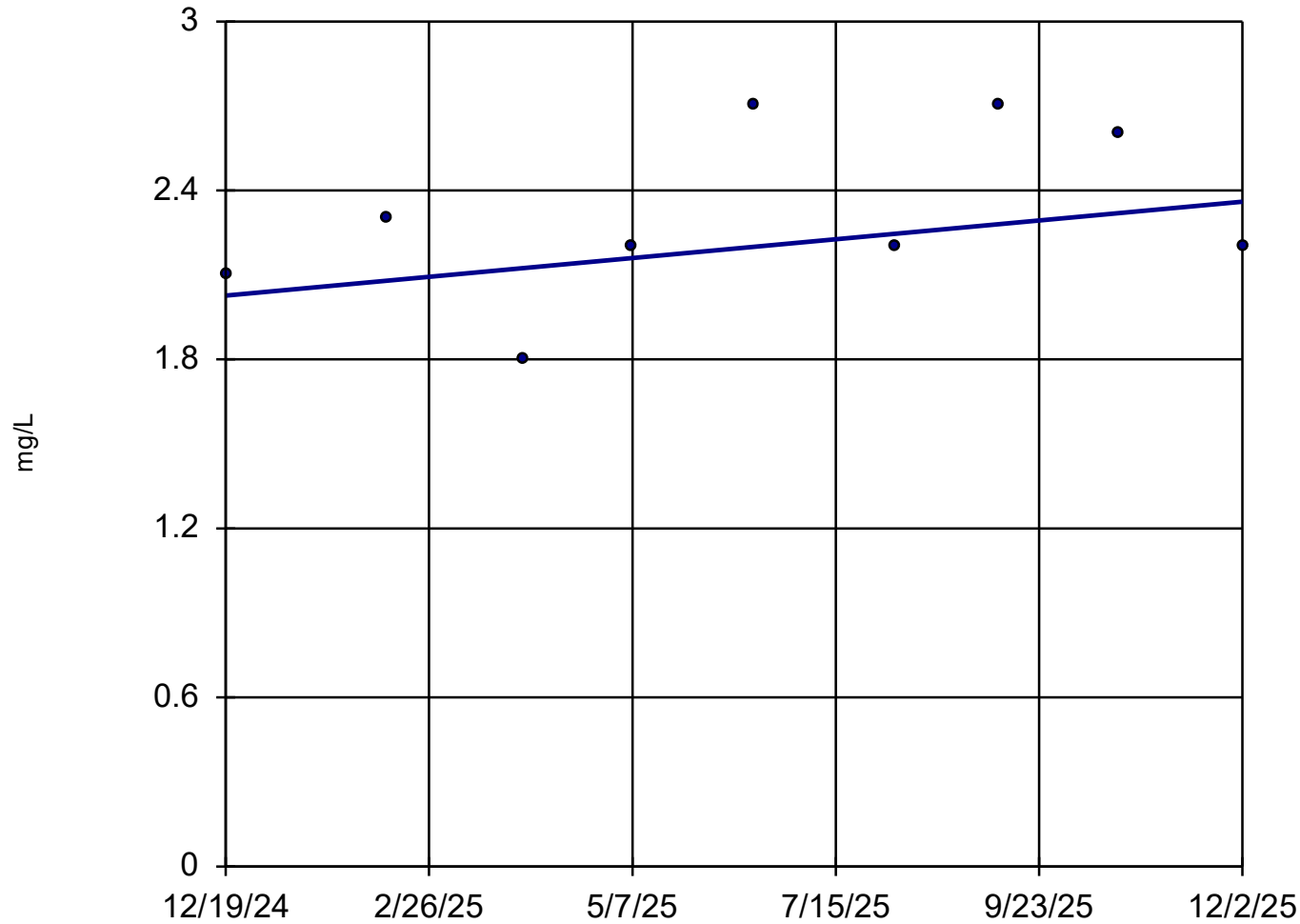
MW-8D



Constituent: Potassium, Dissolved Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-9D

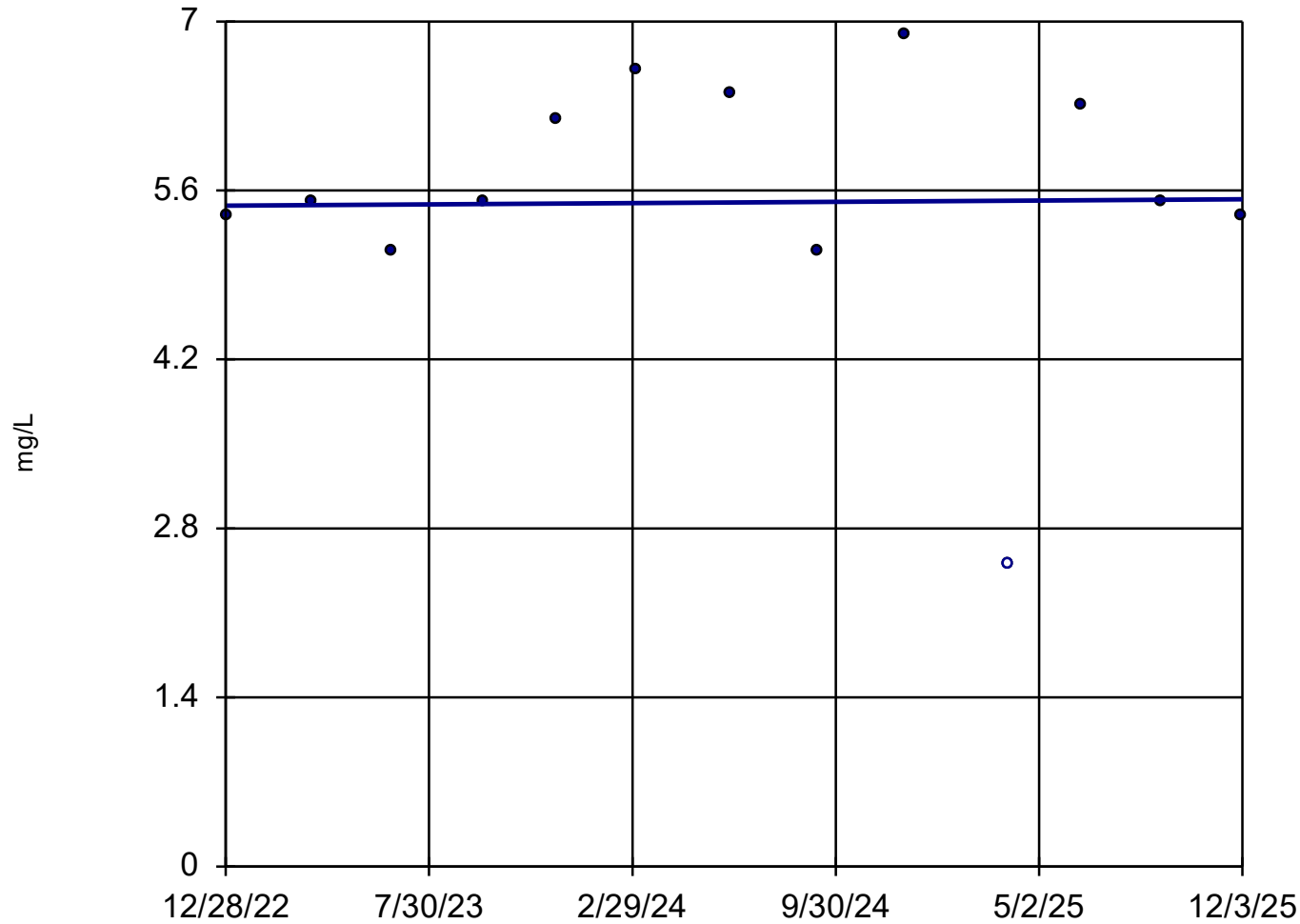


n = 9
Slope = 0.3494
units per year.
Mann-Kendall
statistic = 10
critical = 23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Potassium, Dissolved Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

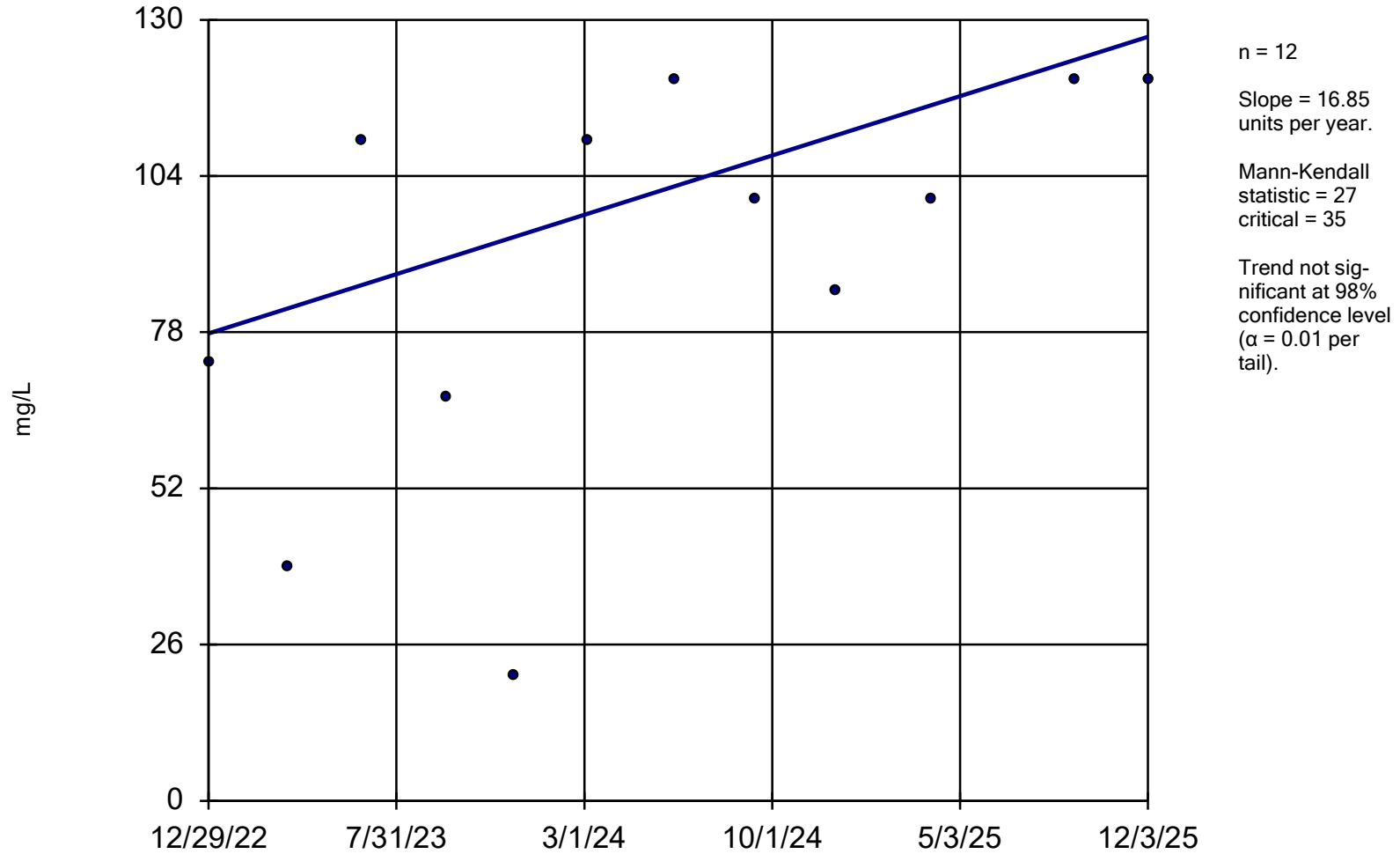
MW-2S



n = 13
Slope = 0.01851
units per year.
Mann-Kendall
statistic = 5
critical = 39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Sen's Slope Estimator

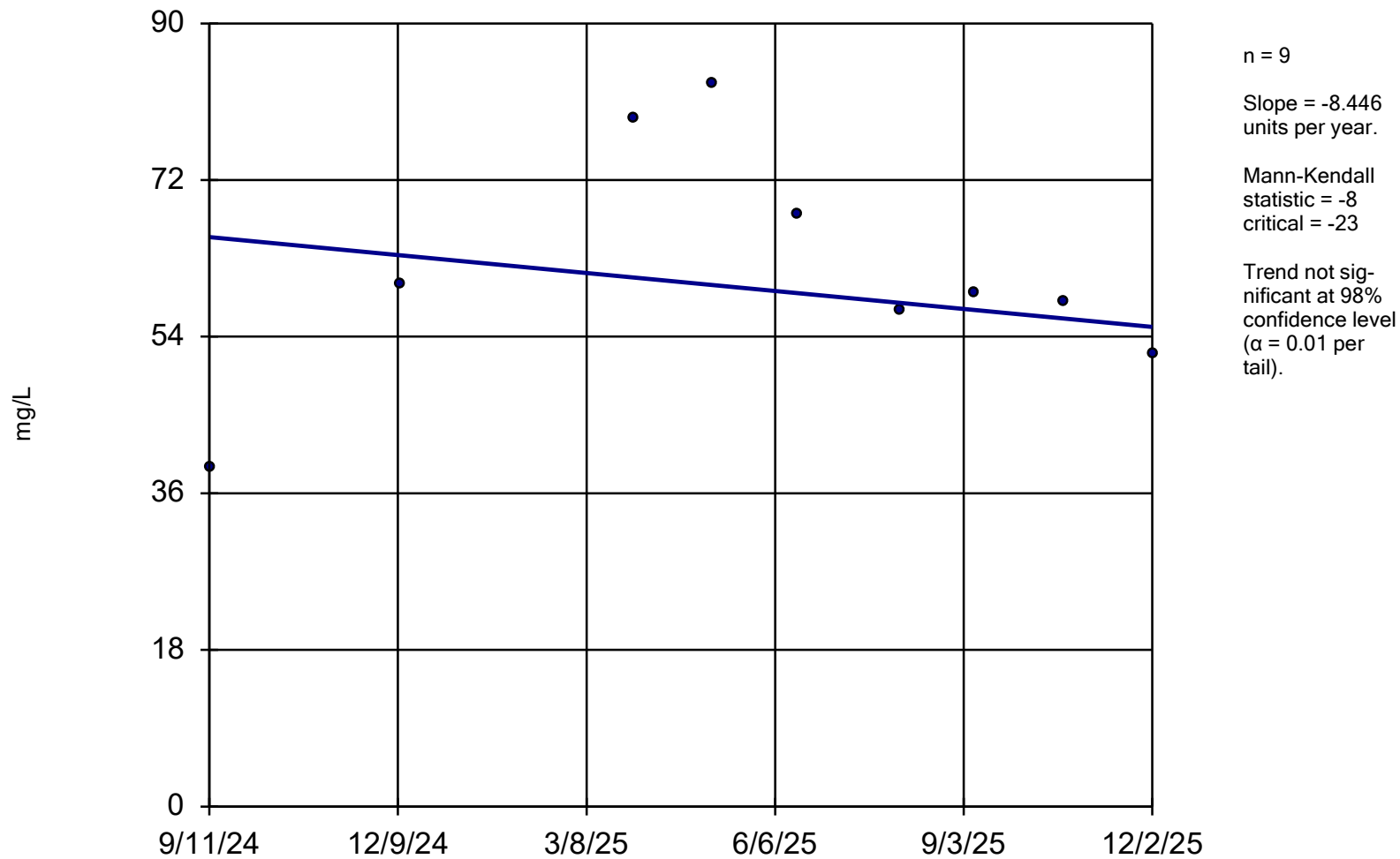
MW-4S



Constituent: Sulfate Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

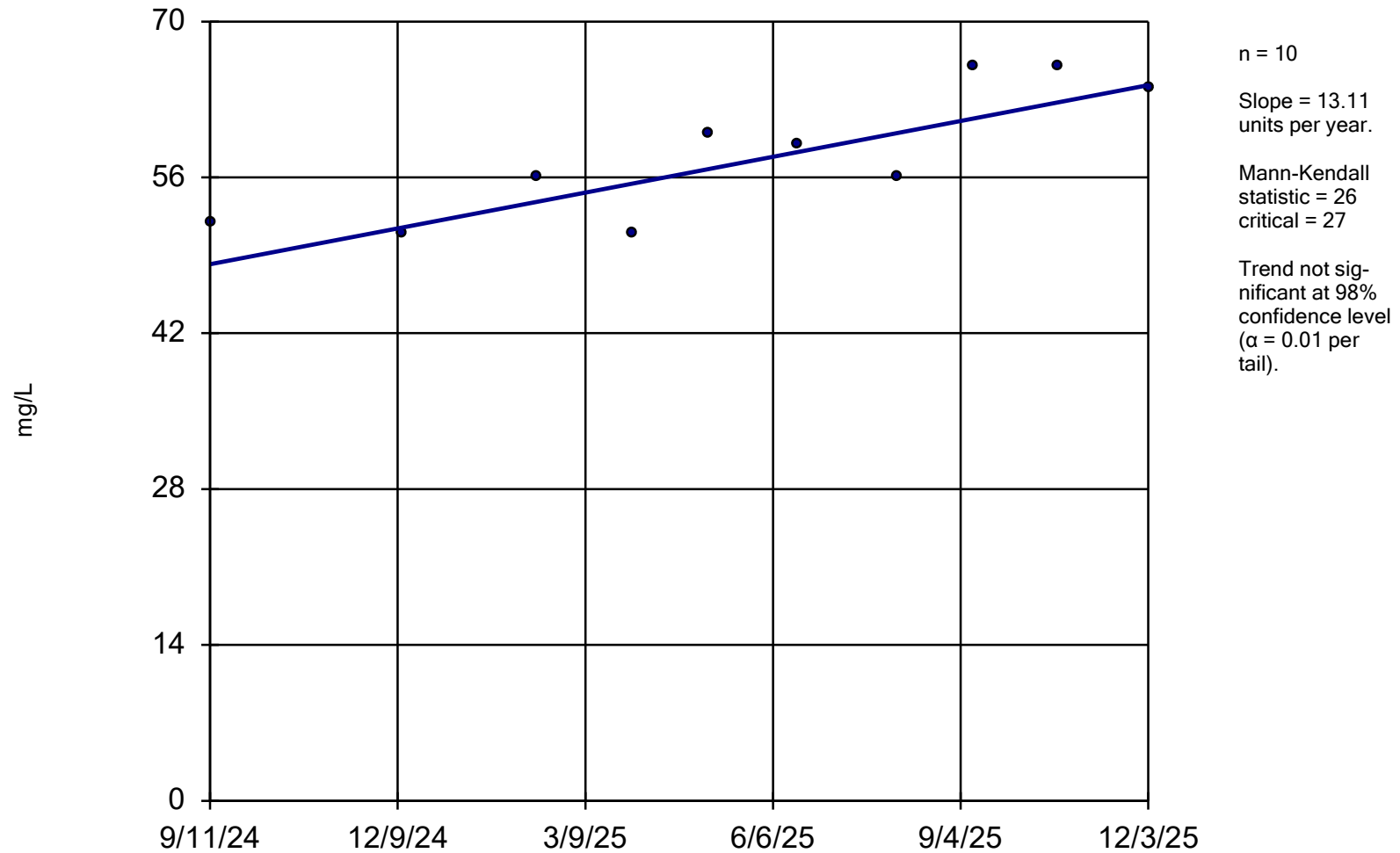
MW-5S



Constituent: Sulfate Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

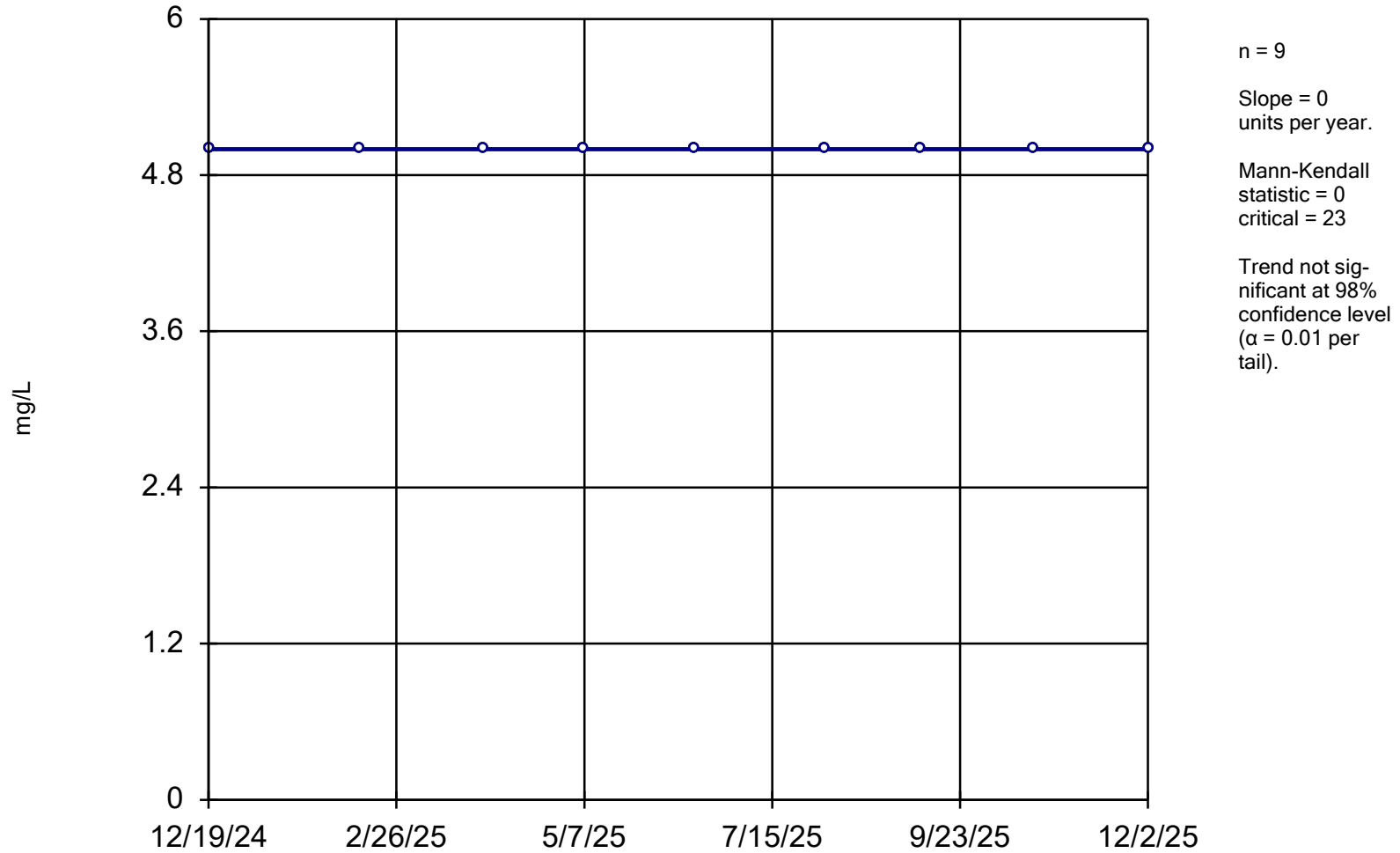
MW-6S



Constituent: Sulfate Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

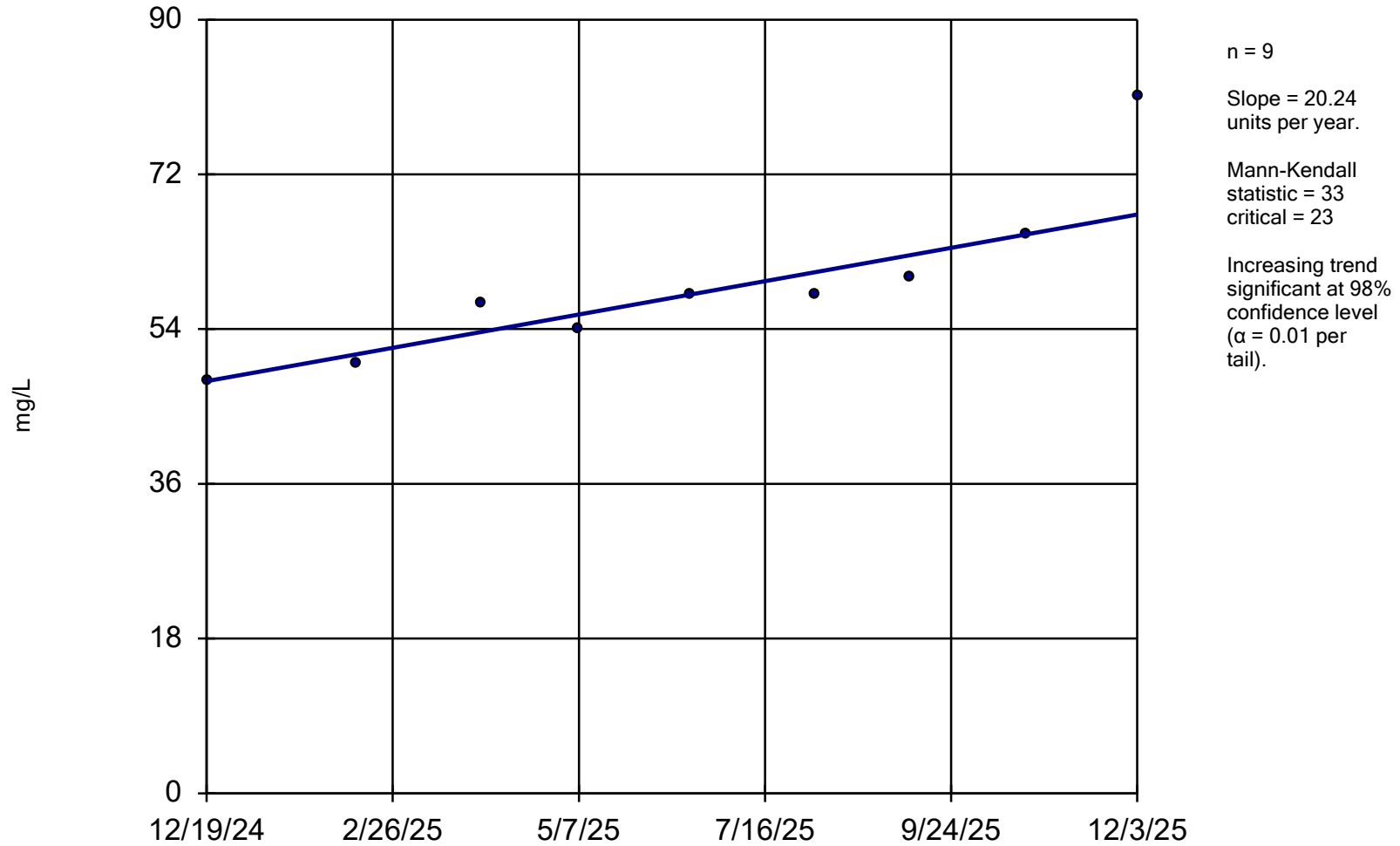
MW-7D



Constituent: Sulfate Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

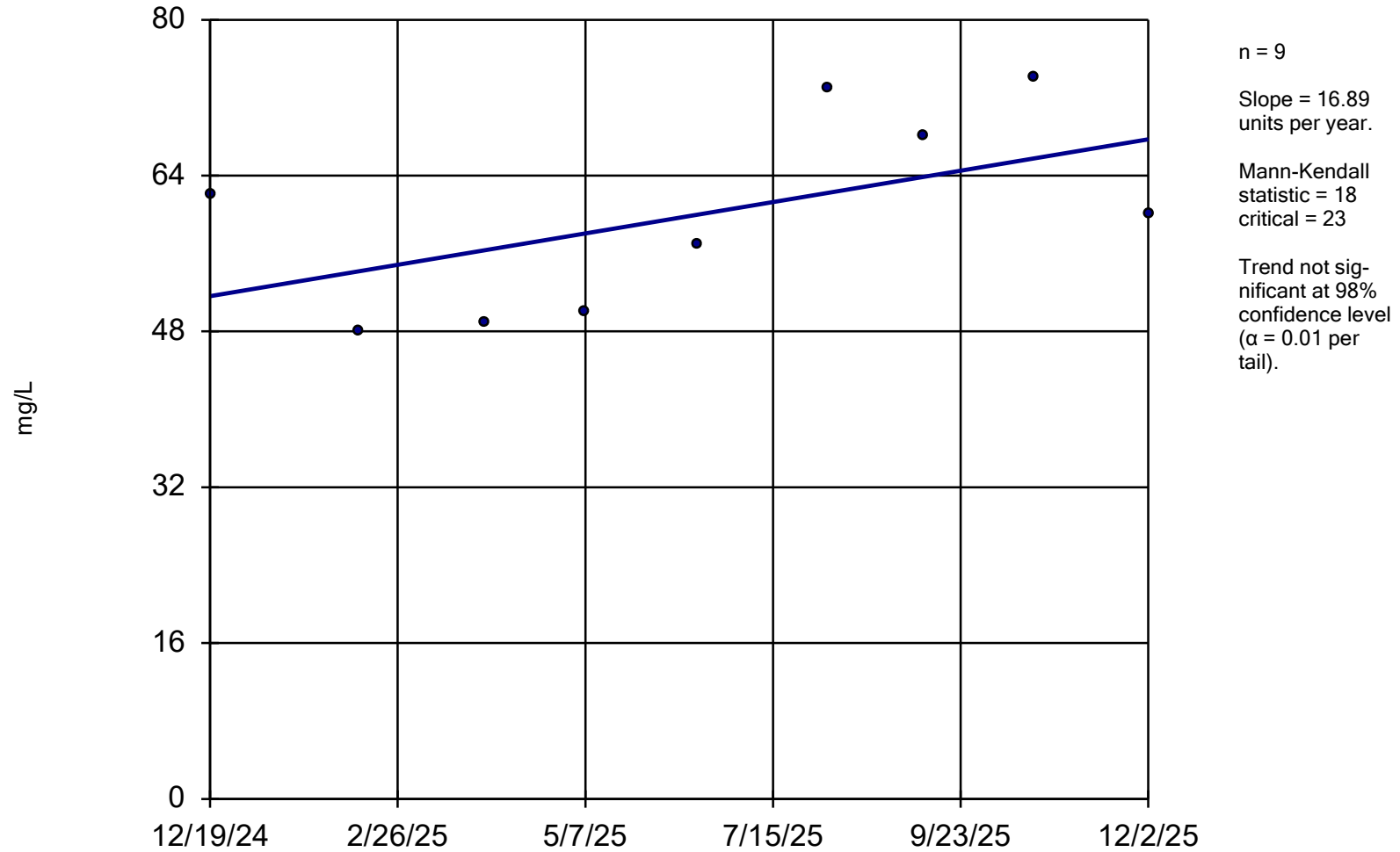
MW-8D



Constituent: Sulfate Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

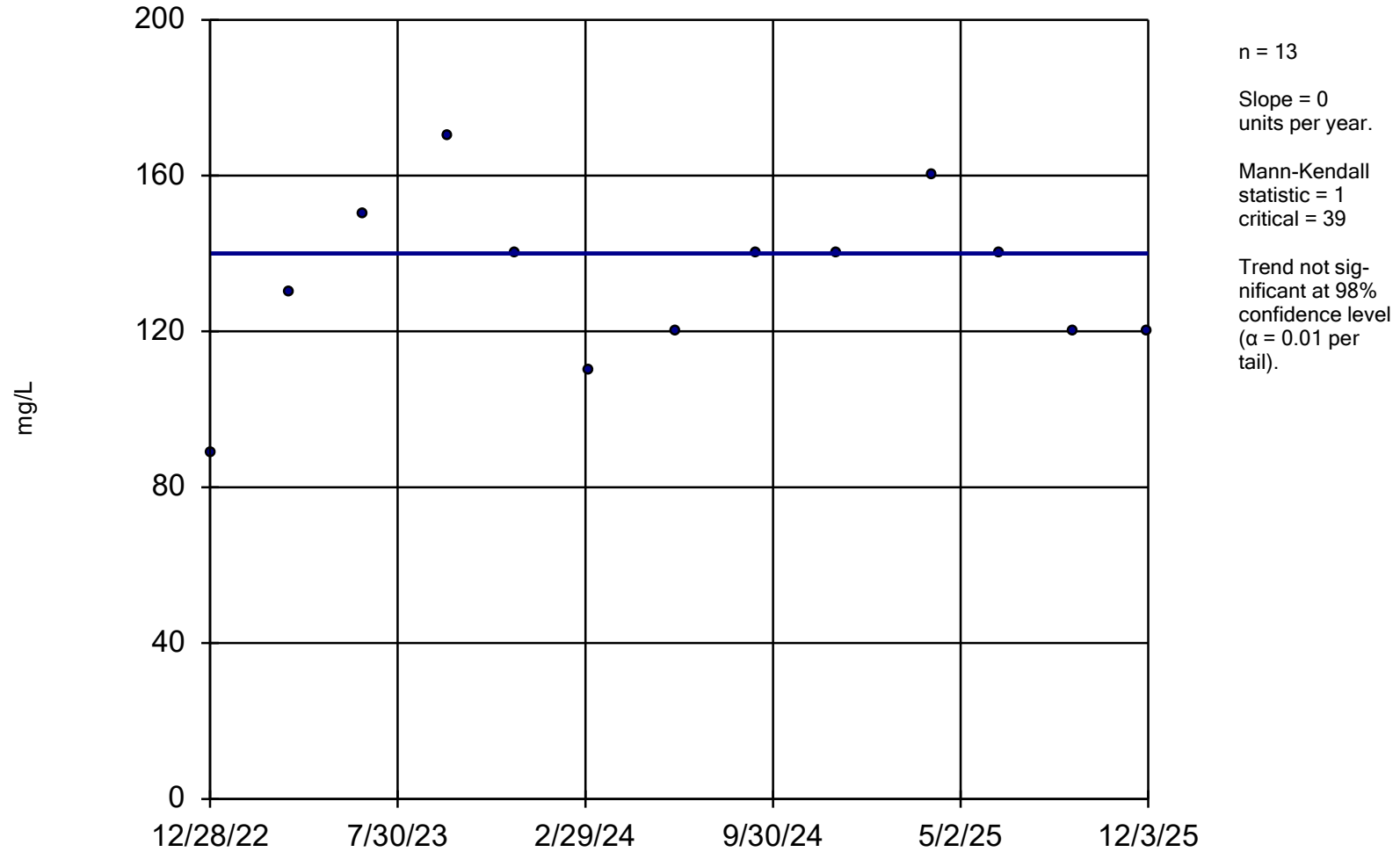
MW-9D



Constituent: Sulfate Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

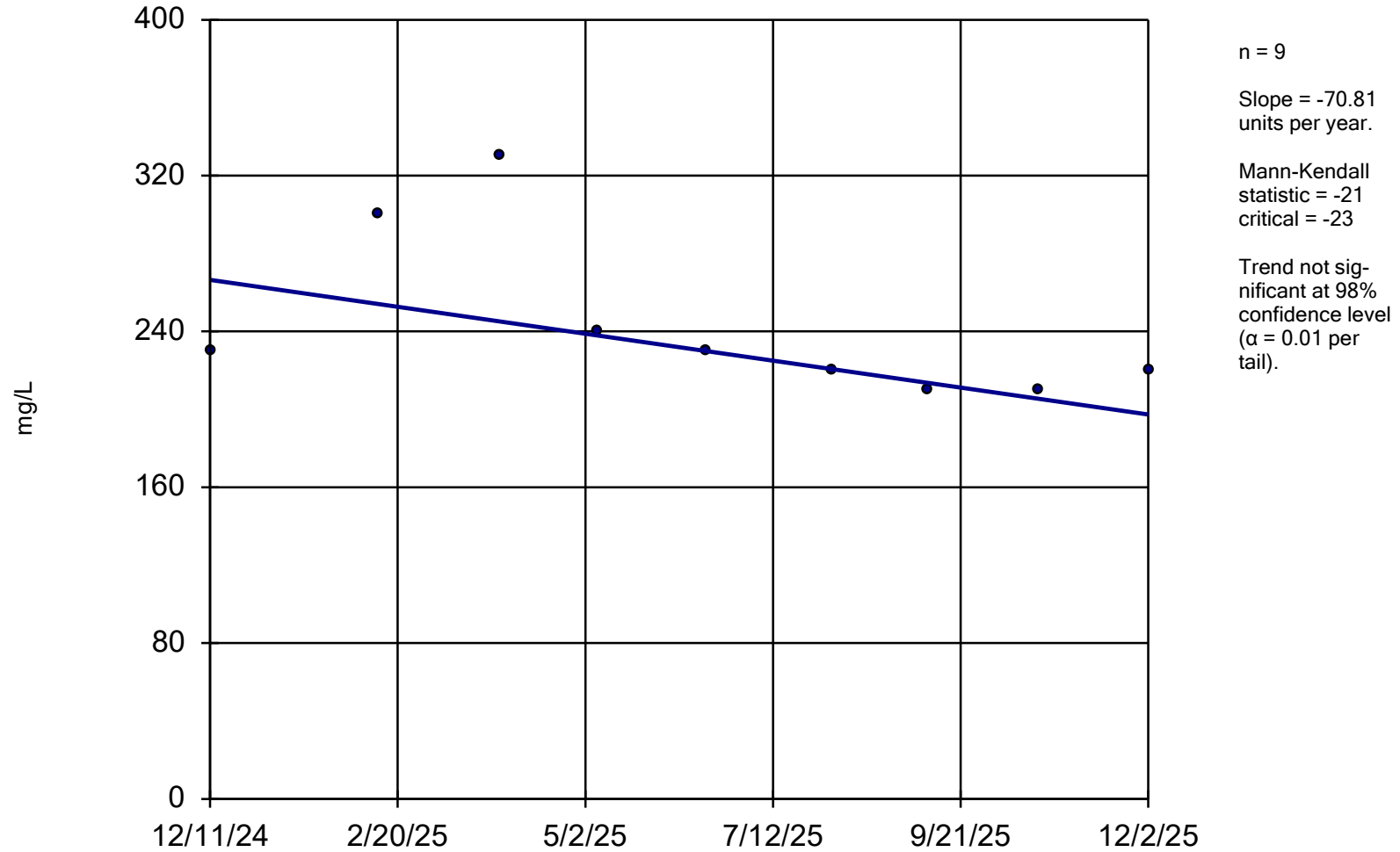
MW-2S



Constituent: TDS Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

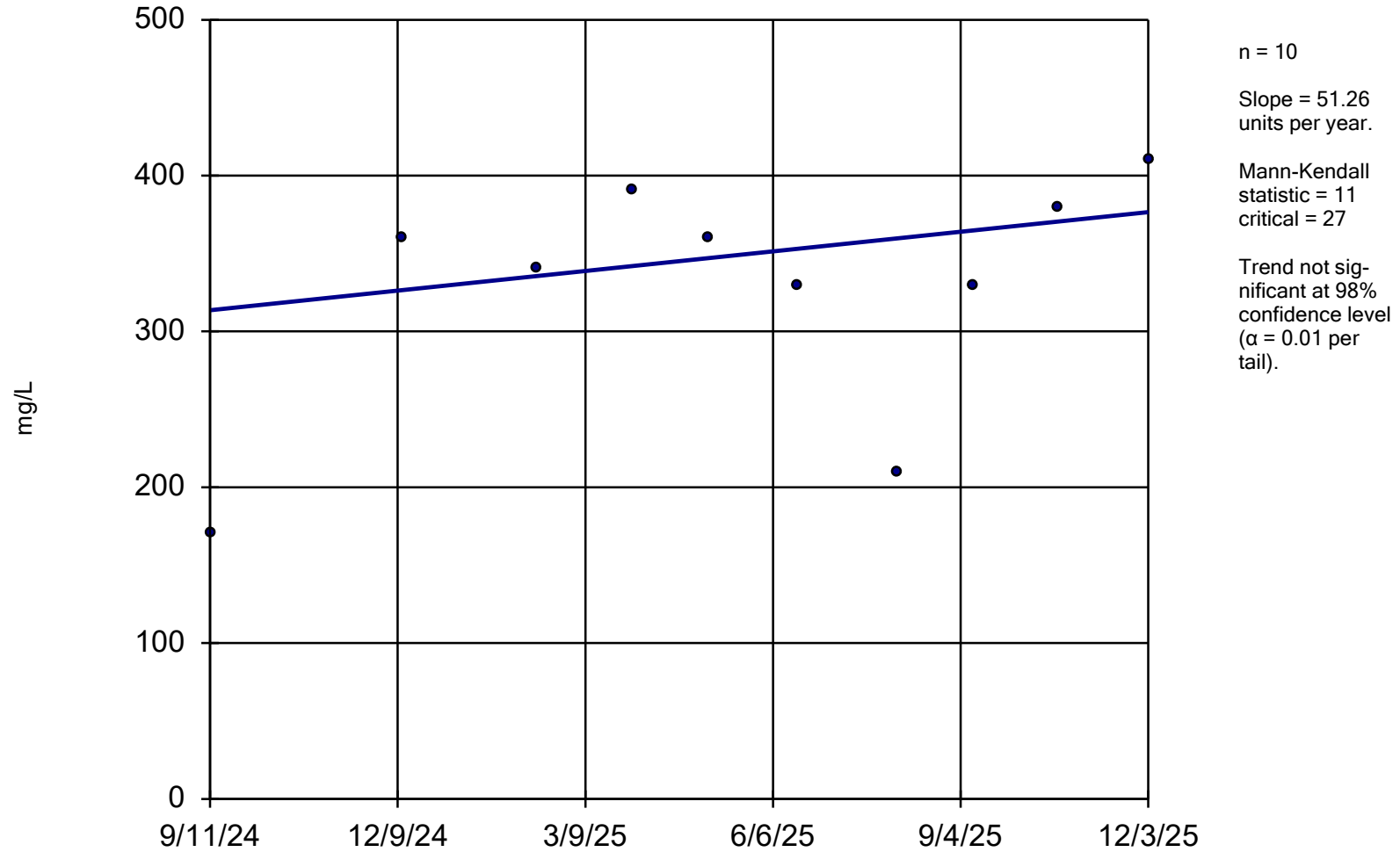
MW-5S



Constituent: TDS Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

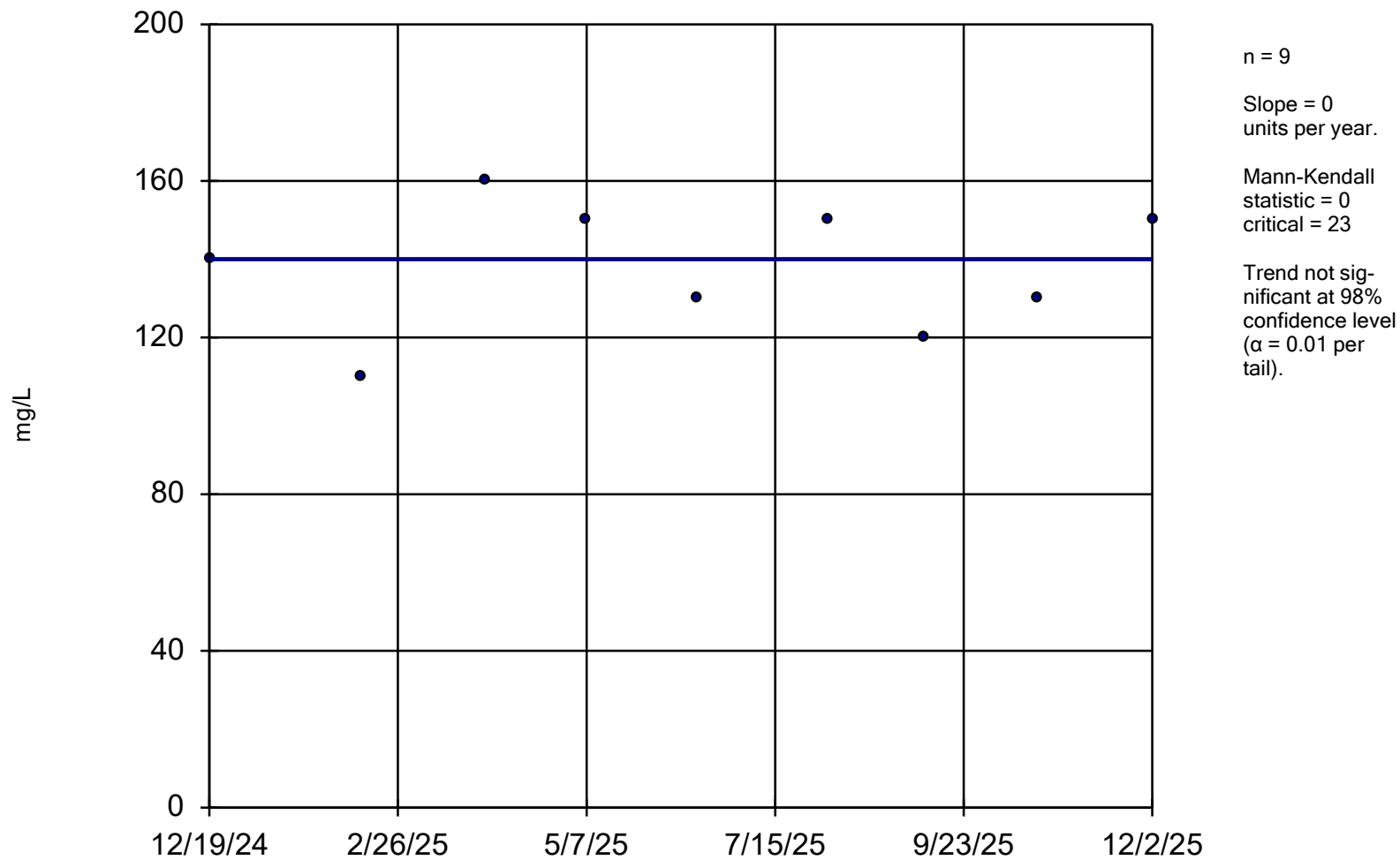
MW-6S



Constituent: TDS Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

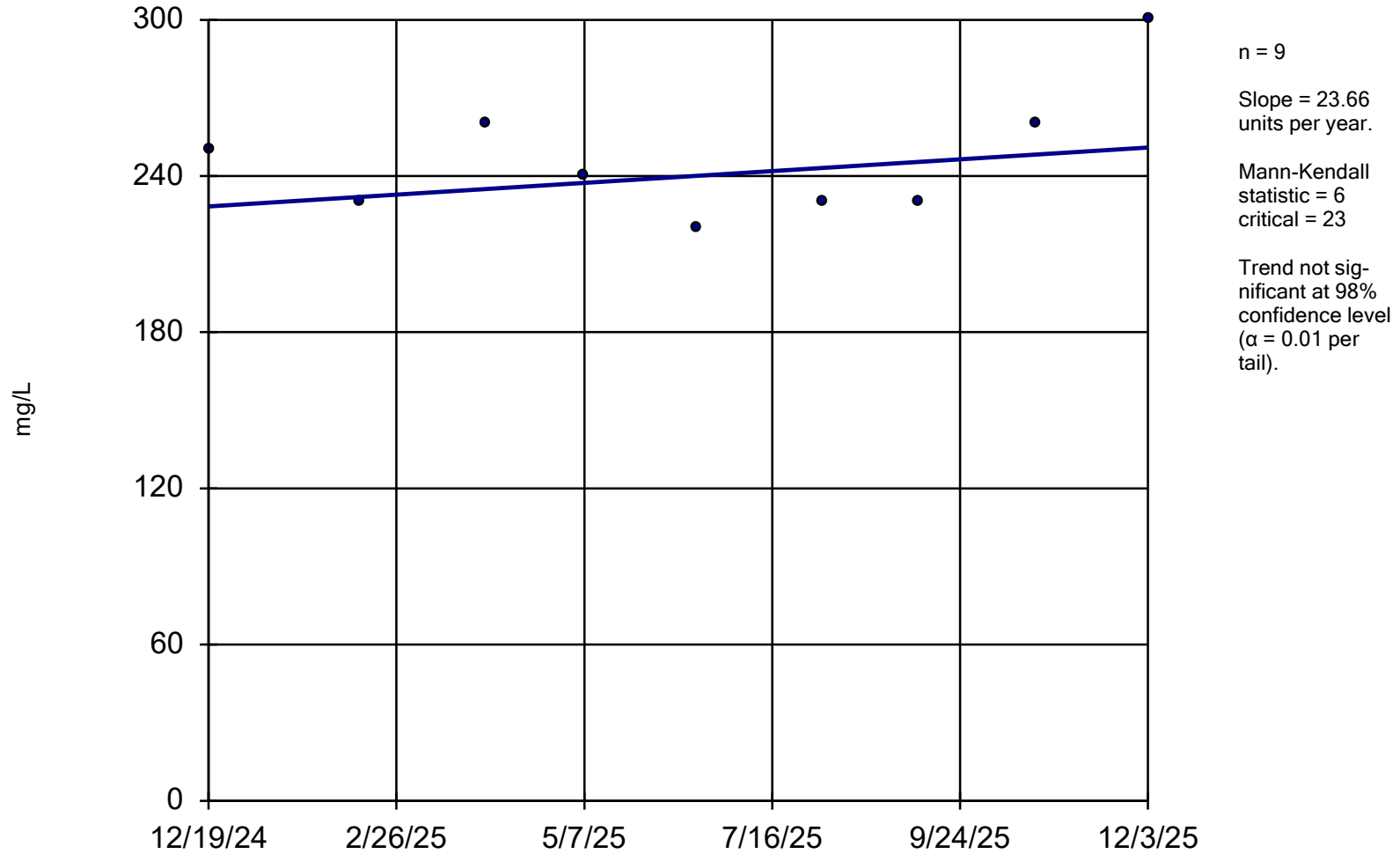
MW-7D



Constituent: TDS Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

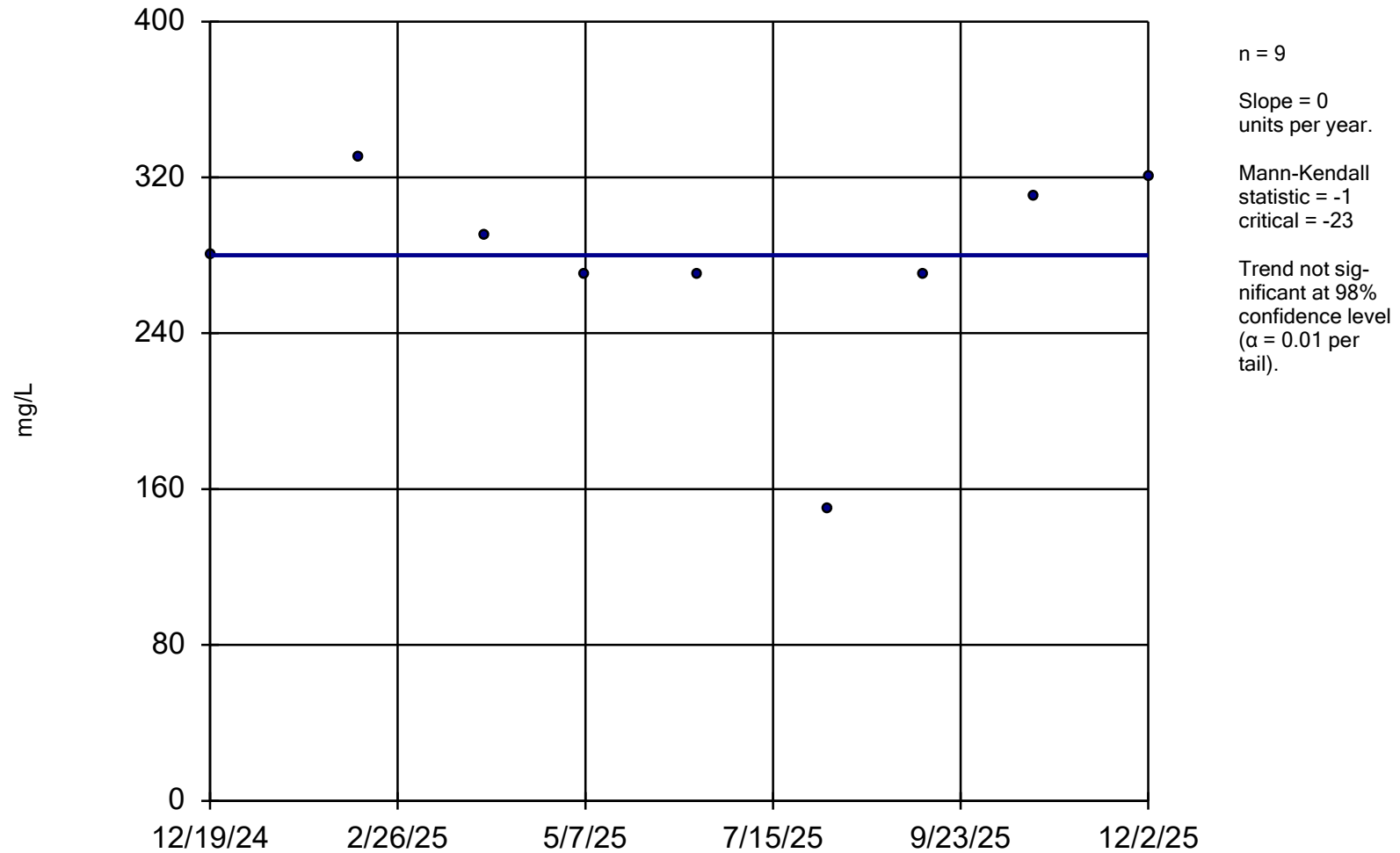
MW-8D



Constituent: TDS Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

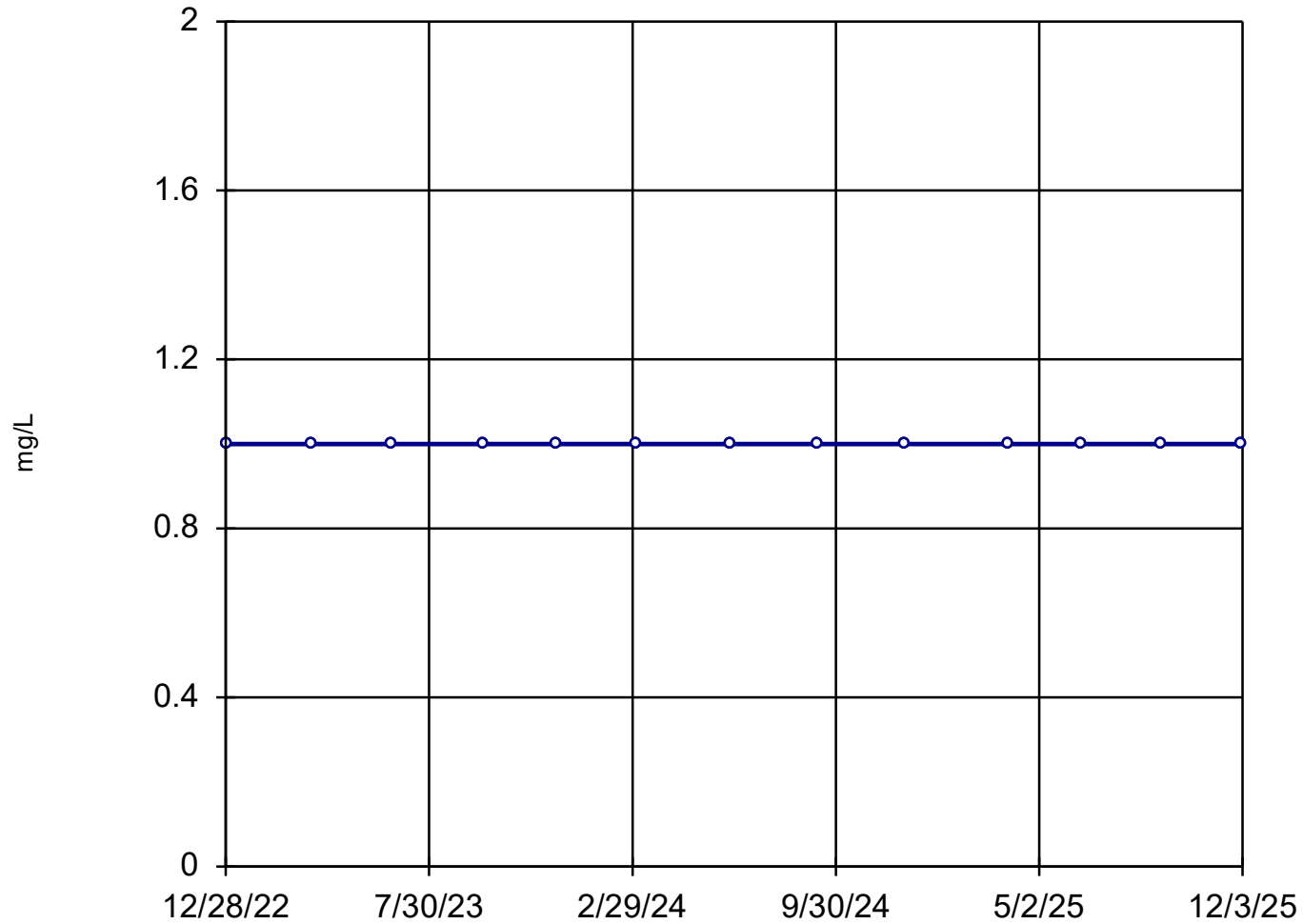
MW-9D



Constituent: TDS Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-2S



n = 13

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 39

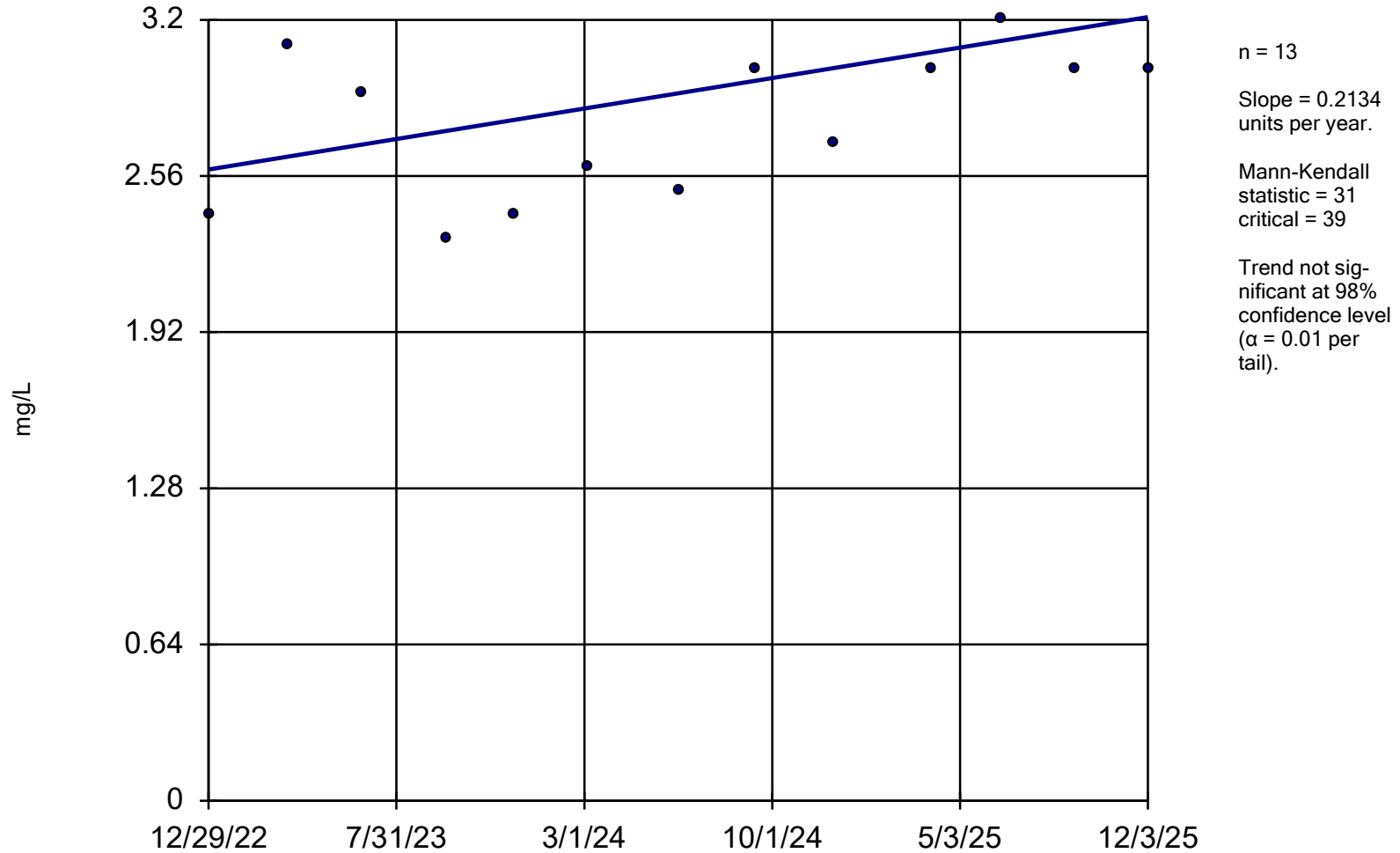
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Total Organic Carbon Analysis Run 3/22/2026 4:13 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

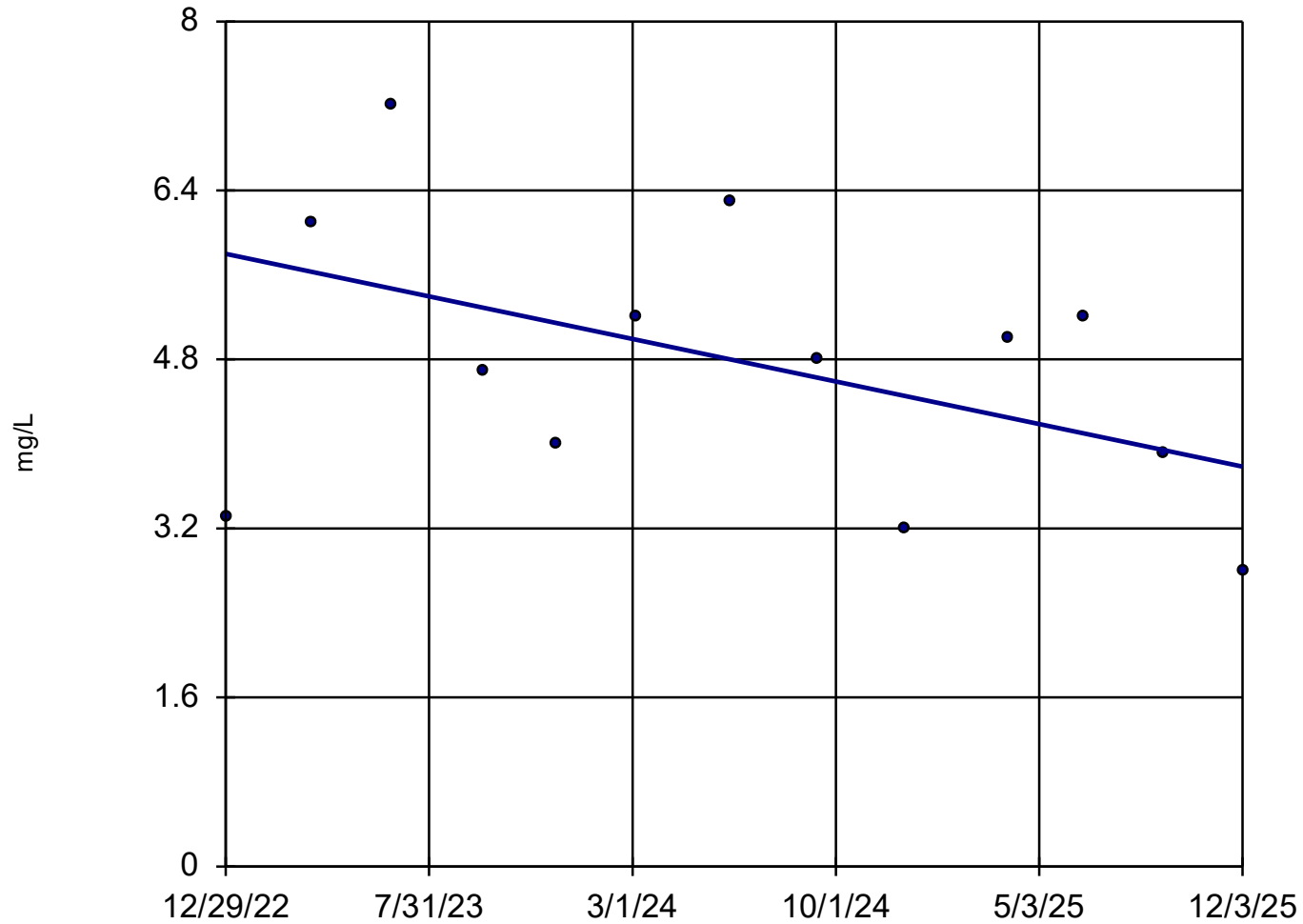
MW-3S



Constituent: Total Organic Carbon Analysis Run 3/22/2026 4:13 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-4S



n = 13

Slope = -0.6875
units per year.

Mann-Kendall
statistic = -19
critical = -39

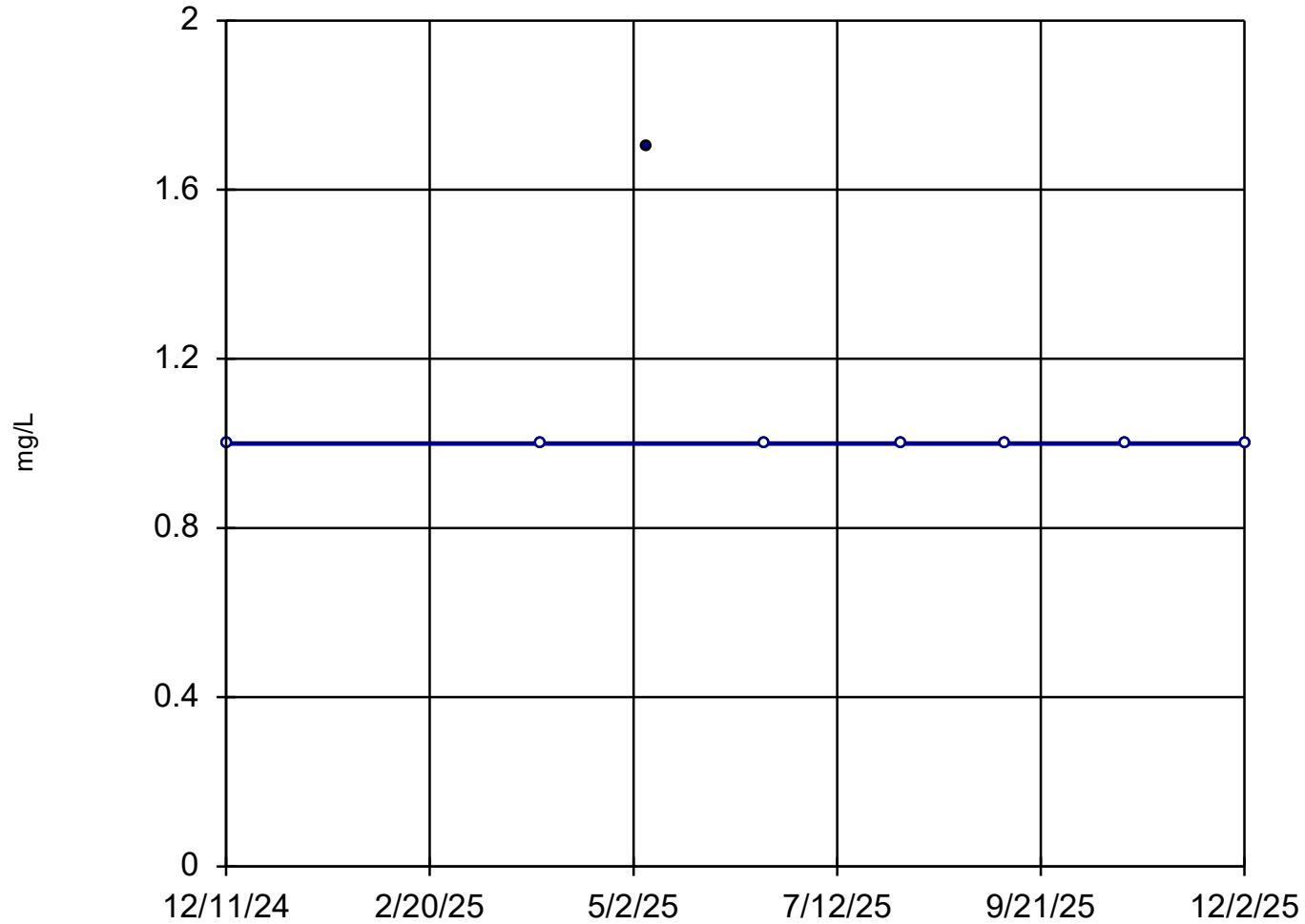
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Total Organic Carbon Analysis Run 3/22/2026 4:14 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-5S



n = 8

Slope = 0
units per year.

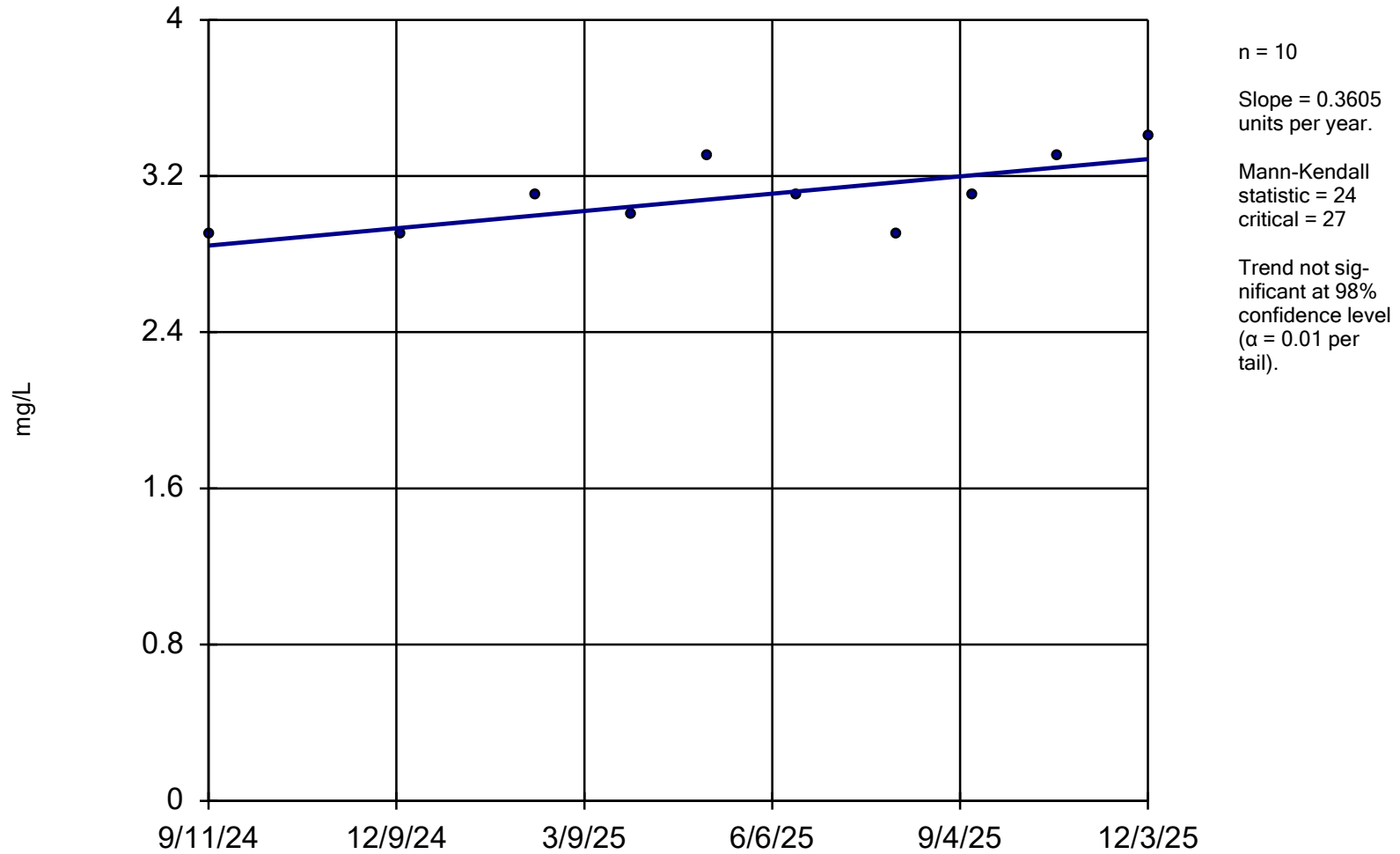
Mann-Kendall
statistic = -3
critical = -20

Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Total Organic Carbon Analysis Run 3/22/2026 4:14 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

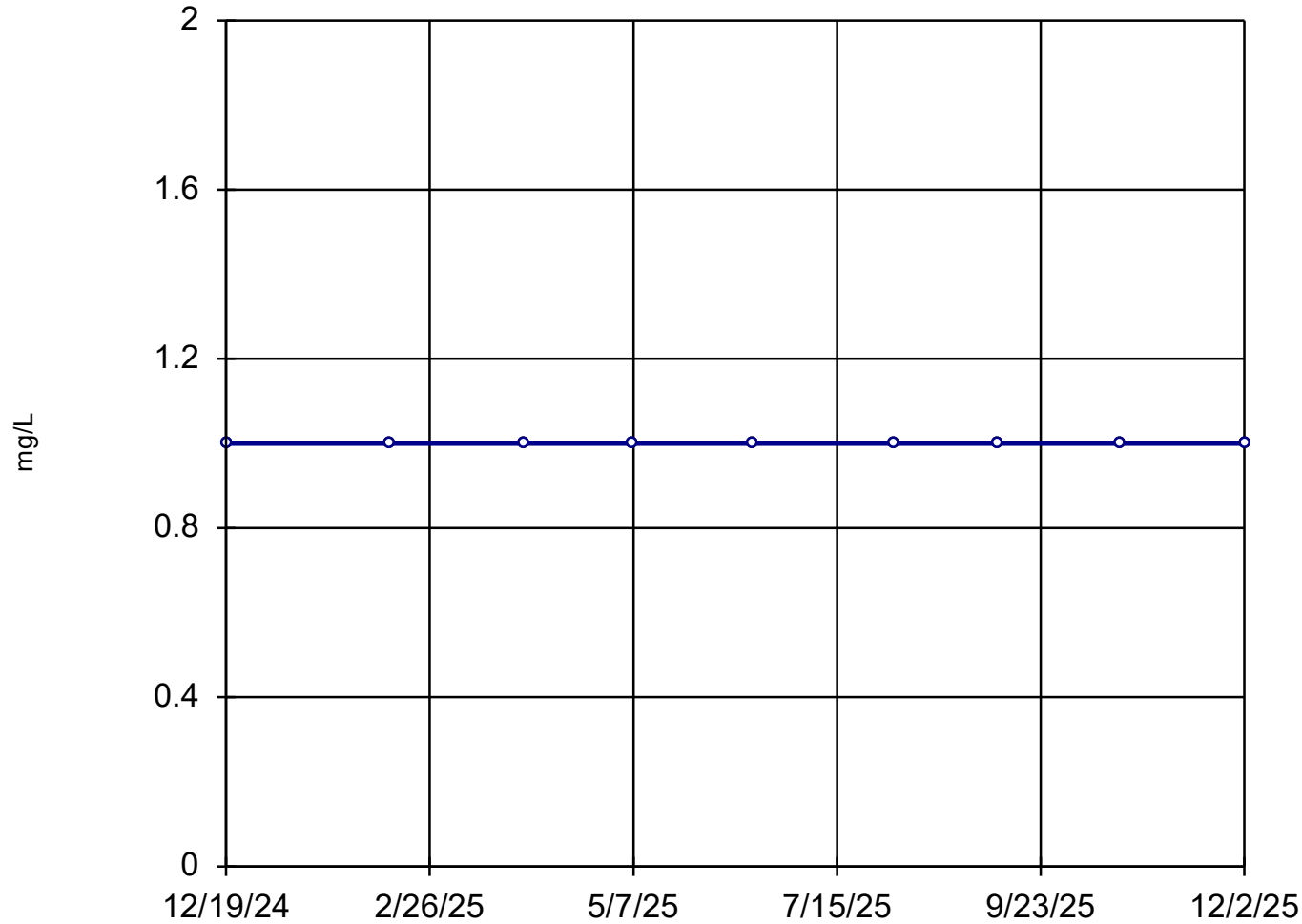
MW-6S



Constituent: Total Organic Carbon Analysis Run 3/22/2026 4:14 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-7D



n = 9

Slope = 0
units per year.

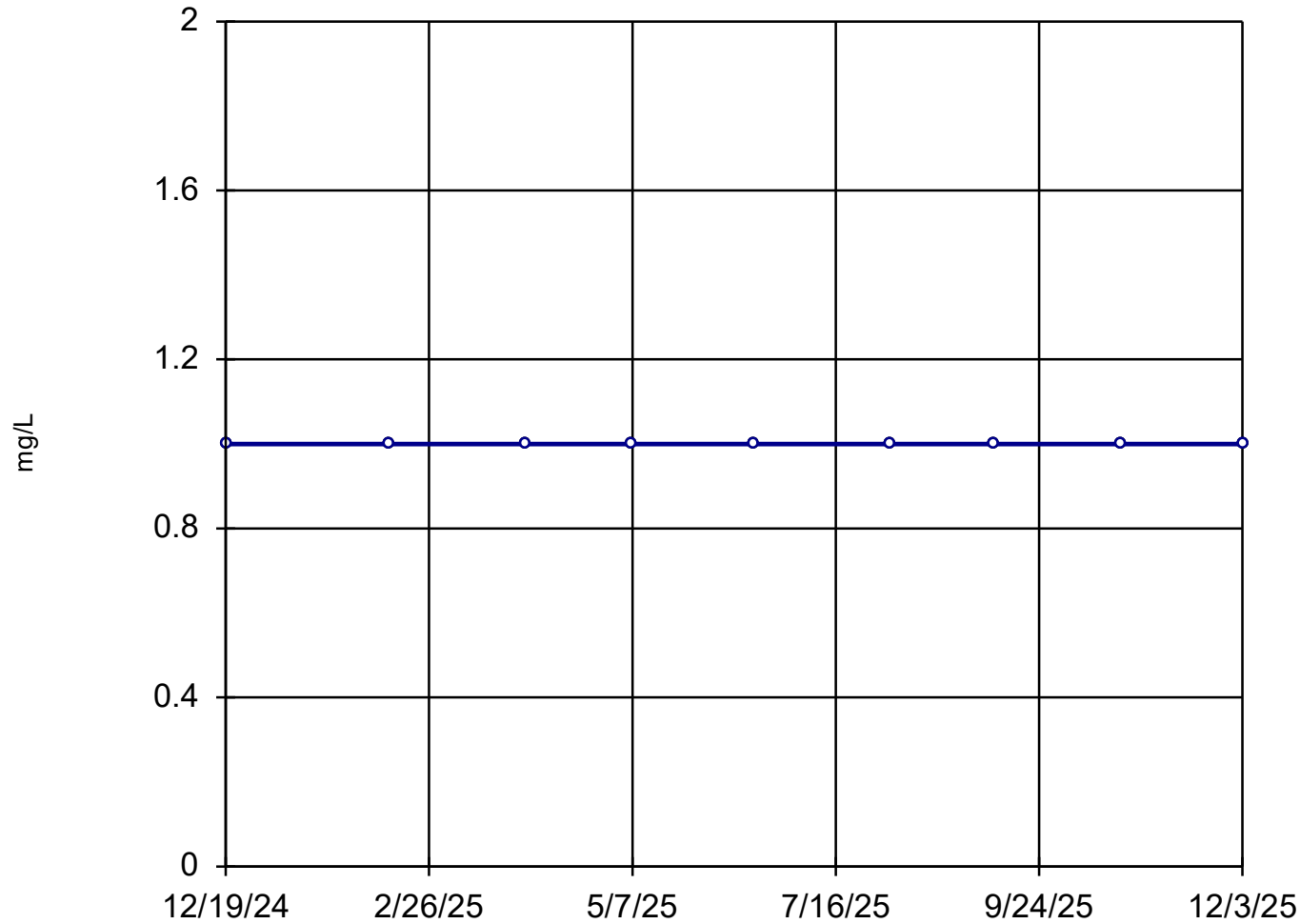
Mann-Kendall
statistic = 0
critical = 23

Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Total Organic Carbon Analysis Run 3/22/2026 4:14 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-8D



n = 9

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 23

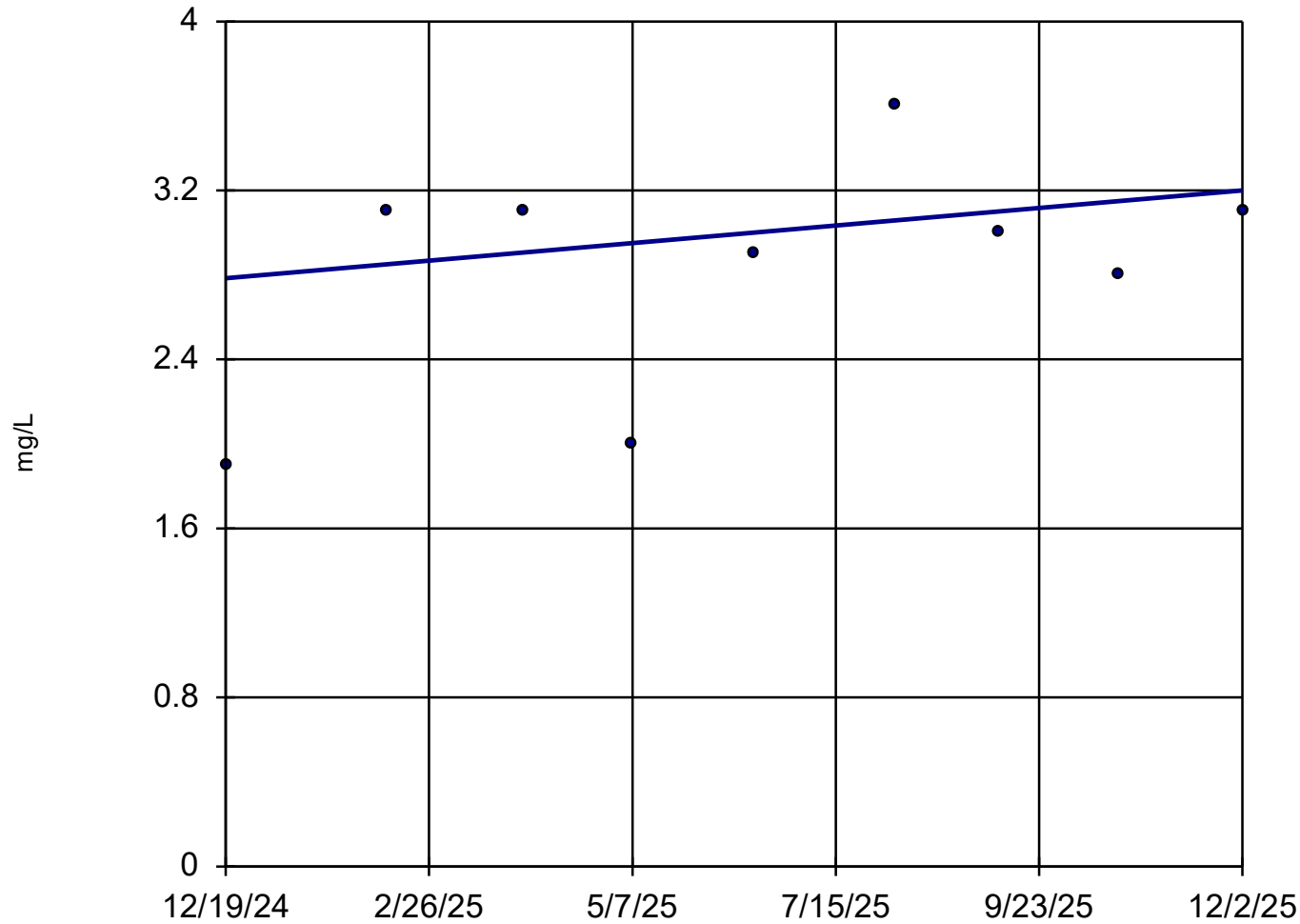
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Total Organic Carbon Analysis Run 3/22/2026 4:14 PM View: Trend Test

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope Estimator

MW-9D



n = 9
Slope = 0.4358
units per year.
Mann-Kendall
statistic = 7
critical = 23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Total Organic Carbon Analysis Run 3/22/2026 4:14 PM View: Trend Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Attachment E

Analysis of Variance

Non-Parametric ANOVA

Constituent: Alkalinity, Total Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025, the non-parametric analysis of variance test indicates a DIFFERENCE between the medians of the groups tested at the 5% significance level. Because the calculated Kruskal-Wallis statistic is greater than the Chi-squared value, we conclude that at least one group has a significantly different median concentration of this constituent when compared to another group.

Calculated Kruskal-Wallis statistic = 14.11

Tabulated Chi-Squared value = 7.815 with 3 degrees of freedom at the 5% significance level.

There were 7 groups of ties in the data, consequently the Kruskal-Wallis statistic (H) was adjusted. The adjusted statistic (H') was utilized to determine if the medians were equal.

Kruskal-Wallis statistic (H) = 13.64

Adjusted Kruskal-Wallis statistic (H') = 14.11

The contrast test (2 tailed) was performed to determine if any compliance group concentration was significantly higher or lower than the background concentration. The contrast test indicates statistical significance in 1 of the compliance wells.

Contrast table:

Well	Difference	Contrast	Significant?
MW-9D	11.56	11.92	No
MW-8D	13.44	11.92	Yes
MW-7D	0.7778	11.92	No

The critical (contrast) value was computed with 3 degrees of freedom and a 0.8333% error level for each well comparison.

Non-parametric test used in lieu of parametric anova because Levene's Equality of Variance test failed at the 0.05 alpha level.

Parametric ANOVA

Constituent: Calcium, Dissolved Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025 the parametric analysis of variance test indicates VARIATION at the 5% significance level. Because the calculated F statistic is greater than the tabulated F statistic, the hypothesis of a single homogeneous population is rejected.

Calculated F statistic = 344.3

Tabulated F statistic = 2.904 with 3 and 32 degrees of freedom at the 5% significance level.

ONE-WAY PARAMETRIC ANOVA TABLE

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	1599	3	533.1	344.3
Error Within Groups	49.56	32	1.549	
Total	1649	35		

The Bonferroni t-Test indicates that at least one compliance well mean is significantly higher than the background (see Contrasts Table below). The critical t (contrast) value is 2.224 with 32 degrees of freedom, 3 compliance wells and a 1.667% error level for each well comparison.

Contrast table:

Well	Difference	Di	Significant
MW-9D	12.56	1.305	Yes
MW-8D	7.667	1.305	Yes
MW-7D	-4.667	1.305	No

Where the difference of a Well is greater than the critical (Di) value the hypothesis of a single population should be rejected.

The Shapiro Wilk normality test on the residuals passed on the raw data. Alpha = 0.01, calculated = 0.9728, critical = 0.912. Levene's Equality of Variance test passed. Calculated = 1.547, tabulated = 2.904.

Parametric ANOVA

Constituent: Chloride Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025 the parametric analysis of variance test (after natural log transformation) indicates VARIATION at the 5% significance level. Because the calculated F statistic is greater than the tabulated F statistic, the hypothesis of a single homogeneous population is rejected.

Calculated F statistic = 885

Tabulated F statistic = 2.904 with 3 and 32 degrees of freedom at the 5% significance level.

ONE-WAY PARAMETRIC ANOVA TABLE

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	46.23	3	15.41	885
Error Within Groups	0.5572	32	0.01741	
Total	46.79	35		

The Bonferroni t-Test indicates that at least one compliance well mean is significantly higher than the background (see Contrasts Table below). The critical t (contrast) value is 2.224 with 32 degrees of freedom, 3 compliance wells and a 1.667% error level for each well comparison.

Contrast table:

Well	Difference	Di	Significant
MW-9D	2.53	0.1383	Yes
MW-8D	1.569	0.1383	Yes
MW-7D	-0.2141	0.1383	No

Where the difference of a Well is greater than the critical (Di) value the hypothesis of a single population should be rejected.

The Shapiro Wilk normality test on the residuals passed after natural log transformation. Alpha = 0.01, calculated = 0.9393, critical = 0.912. Levene's Equality of Variance test passed. Calculated = 2.852, tabulated = 2.904.

Non-Parametric ANOVA

Constituent: Iron, Dissolved Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025, the non-parametric analysis of variance test indicates a DIFFERENCE between the medians of the groups tested at the 5% significance level. Because the calculated Kruskal-Wallis statistic is greater than the Chi-squared value, we conclude that at least one group has a significantly different median concentration of this constituent when compared to another group.

Calculated Kruskal-Wallis statistic = 13.11

Tabulated Chi-Squared value = 7.815 with 3 degrees of freedom at the 5% significance level.

There were 2 groups of ties in the data, consequently the Kruskal-Wallis statistic (H) was adjusted. The adjusted statistic (H') was utilized to determine if the medians were equal.

Kruskal-Wallis statistic (H) = 9.691

Adjusted Kruskal-Wallis statistic (H') = 13.11

The contrast test was performed to determine if any compliance group concentration was significantly higher than the background concentration. The contrast test indicates statistical significance in 1 of the compliance wells.

Contrast table:

Well	Difference	Contrast	Significant?
MW-9D	8.778	10.62	No
MW-8D	1.389	10.62	No
MW-7D	13.39	10.62	Yes

The critical (contrast) value was computed with 3 degrees of freedom and a 1.667% error level for each well comparison.

Non-parametric test used in lieu of parametric anova because the Shapiro Wilk normality test showed the residuals to be non-normal at the 0.01 alpha level.

Parametric ANOVA

Constituent: Magnesium, Dissolved Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025 the parametric analysis of variance test (after square root transformation) indicates VARIATION at the 5% significance level. Because the calculated F statistic is greater than the tabulated F statistic, the hypothesis of a single homogeneous population is rejected.

Calculated F statistic = 253.7

Tabulated F statistic = 2.904 with 3 and 32 degrees of freedom at the 5% significance level.

ONE-WAY PARAMETRIC ANOVA TABLE

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	11	3	3.665	253.7
Error Within Groups	0.4623	32	0.01445	
Total	11.46	35		

The Bonferroni t-Test indicates that at least one compliance well mean is significantly higher than the background (see Contrasts Table below). The critical t (contrast) value is 2.224 with 32 degrees of freedom, 3 compliance wells and a 1.667% error level for each well comparison.

Contrast table:

Well	Difference	Di	Significant
MW-9D	1.119	0.126	Yes
MW-8D	0.9905	0.126	Yes
MW-7D	-0.08953	0.126	No

Where the difference of a Well is greater than the critical (Di) value the hypothesis of a single population should be rejected.

The Shapiro Wilk normality test on the residuals passed after square root transformation. Alpha = 0.01, calculated = 0.9592, critical = 0.912. Levene's Equality of Variance test passed. Calculated = 2.185, tabulated = 2.904.

Non-Parametric ANOVA

Constituent: Nitrate Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025, the non-parametric analysis of variance test indicates a DIFFERENCE between the medians of the groups tested at the 5% significance level. Because the calculated Kruskal-Wallis statistic is greater than the Chi-squared value, we conclude that at least one group has a significantly different median concentration of this constituent when compared to another group.

Calculated Kruskal-Wallis statistic = 19.35

Tabulated Chi-Squared value = 7.815 with 3 degrees of freedom at the 5% significance level.

There were 4 groups of ties in the data, consequently the Kruskal-Wallis statistic (H) was adjusted. The adjusted statistic (H') was utilized to determine if the medians were equal.

Kruskal-Wallis statistic (H) = 19.05

Adjusted Kruskal-Wallis statistic (H') = 19.35

The contrast test was performed to determine if any compliance group concentration was significantly higher than the background concentration. The contrast test indicates statistical significance in none of the compliance wells.

Contrast table:

Well	Difference	Contrast	Significant?
MW-9D	-10.72	10.62	No
MW-7D	-16.72	10.62	No
MW-8D	1.889	10.62	No

The critical (contrast) value was computed with 3 degrees of freedom and a 1.667% error level for each well comparison. (Note: In this case, with Anova indicating differences that are not reflected in the contrast test, it should be concluded that it is the median of the Background data which is significantly higher.)

Non-parametric test used in lieu of parametric anova because the Shapiro Wilk normality test showed the residuals to be non-normal at the 0.01 alpha level.

Parametric ANOVA

Constituent: Potassium, Dissolved Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025 the parametric analysis of variance test indicates VARIATION at the 5% significance level. Because the calculated F statistic is greater than the tabulated F statistic, the hypothesis of a single homogeneous population is rejected.

Calculated F statistic = 11.81

Tabulated F statistic = 2.904 with 3 and 32 degrees of freedom at the 5% significance level.

ONE-WAY PARAMETRIC ANOVA TABLE

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	2.663	3	0.8877	11.81
Error Within Groups	2.404	32	0.07514	
Total	5.067	35		

The Bonferroni t-Test indicates that at least one compliance well mean is significantly higher than the background (see Contrasts Table below). The critical t (contrast) value is 2.224 with 32 degrees of freedom, 3 compliance wells and a 1.667% error level for each well comparison.

Contrast table:

Well	Difference	Di	Significant
MW-9D	-0.05556	0.2874	No
MW-8D	0.6333	0.2874	Yes
MW-7D	0.2556	0.2874	No

Where the difference of a Well is greater than the critical (Di) value the hypothesis of a single population should be rejected.

The Shapiro Wilk normality test on the residuals passed on the raw data. Alpha = 0.01, calculated = 0.96, critical = 0.912. Levene's Equality of Variance test passed. Calculated = 0.08975, tabulated = 2.904.

Non-Parametric ANOVA

Constituent: Sulfate Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025, the non-parametric analysis of variance test indicates a DIFFERENCE between the medians of the groups tested at the 5% significance level. Because the calculated Kruskal-Wallis statistic is greater than the Chi-squared value, we conclude that at least one group has a significantly different median concentration of this constituent when compared to another group.

Calculated Kruskal-Wallis statistic = 30.1

Tabulated Chi-Squared value = 7.815 with 3 degrees of freedom at the 5% significance level.

There were 9 groups of ties in the data, consequently the Kruskal-Wallis statistic (H) was adjusted. The adjusted statistic (H') was utilized to determine if the medians were equal.

Kruskal-Wallis statistic (H) = 29.58

Adjusted Kruskal-Wallis statistic (H') = 30.1

The contrast test was performed to determine if any compliance group concentration was significantly higher than the background concentration. The contrast test indicates statistical significance in 2 of the compliance wells.

Contrast table:

Well	Difference	Contrast	Significant?
MW-7D	-9	10.62	No
MW-9D	13.89	10.62	Yes
MW-8D	13.11	10.62	Yes

The critical (contrast) value was computed with 3 degrees of freedom and a 1.667% error level for each well comparison.

Non-parametric test used in lieu of parametric anova because Levene's Equality of Variance test failed at the 0.05 alpha level.

Non-Parametric ANOVA

Constituent: TDS Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025, the non-parametric analysis of variance test indicates a DIFFERENCE between the medians of the groups tested at the 5% significance level. Because the calculated Kruskal-Wallis statistic is greater than the Chi-squared value, we conclude that at least one group has a significantly different median concentration of this constituent when compared to another group.

Calculated Kruskal-Wallis statistic = 26.29

Tabulated Chi-Squared value = 7.815 with 3 degrees of freedom at the 5% significance level.

There were 7 groups of ties in the data, consequently the Kruskal-Wallis statistic (H) was adjusted. The adjusted statistic (H') was utilized to determine if the medians were equal.

Kruskal-Wallis statistic (H) = 26.13

Adjusted Kruskal-Wallis statistic (H') = 26.29

The contrast test was performed to determine if any compliance group concentration was significantly higher than the background concentration. The contrast test indicates statistical significance in 1 of the compliance wells.

Contrast table:

Well	Difference	Contrast	Significant?
MW-7D	-8.451	10.65	No
MW-9D	14.27	10.65	Yes
MW-8D	9.493	10.65	No

The critical (contrast) value was computed with 3 degrees of freedom and a 1.667% error level for each well comparison.

Non-parametric test used in lieu of parametric anova because Levene's Equality of Variance test failed at the 0.05 alpha level.

Non-Parametric ANOVA

Constituent: Total Organic Carbon Analysis Run 3/11/2026 1:38 PM View: 2026 UPL Test
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

For observations made between 12/18/2024 and 12/3/2025, the non-parametric analysis of variance test indicates a DIFFERENCE between the medians of the groups tested at the 5% significance level. Because the calculated Kruskal-Wallis statistic is greater than the Chi-squared value, we conclude that at least one group has a significantly different median concentration of this constituent when compared to another group.

Calculated Kruskal-Wallis statistic = 34.1

Tabulated Chi-Squared value = 7.815 with 3 degrees of freedom at the 5% significance level.

There were 2 groups of ties in the data, consequently the Kruskal-Wallis statistic (H) was adjusted. The adjusted statistic (H') was utilized to determine if the medians were equal.

Kruskal-Wallis statistic (H) = 19.7

Adjusted Kruskal-Wallis statistic (H') = 34.1

The contrast test was performed to determine if any compliance group concentration was significantly higher than the background concentration. The contrast test indicates statistical significance in 1 of the compliance wells.

Contrast table:

Well	Difference	Contrast	Significant?
MW-7D	0	10.62	No
MW-8D	0	10.62	No
MW-9D	18	10.62	Yes

The critical (contrast) value was computed with 3 degrees of freedom and a 1.667% error level for each well comparison.

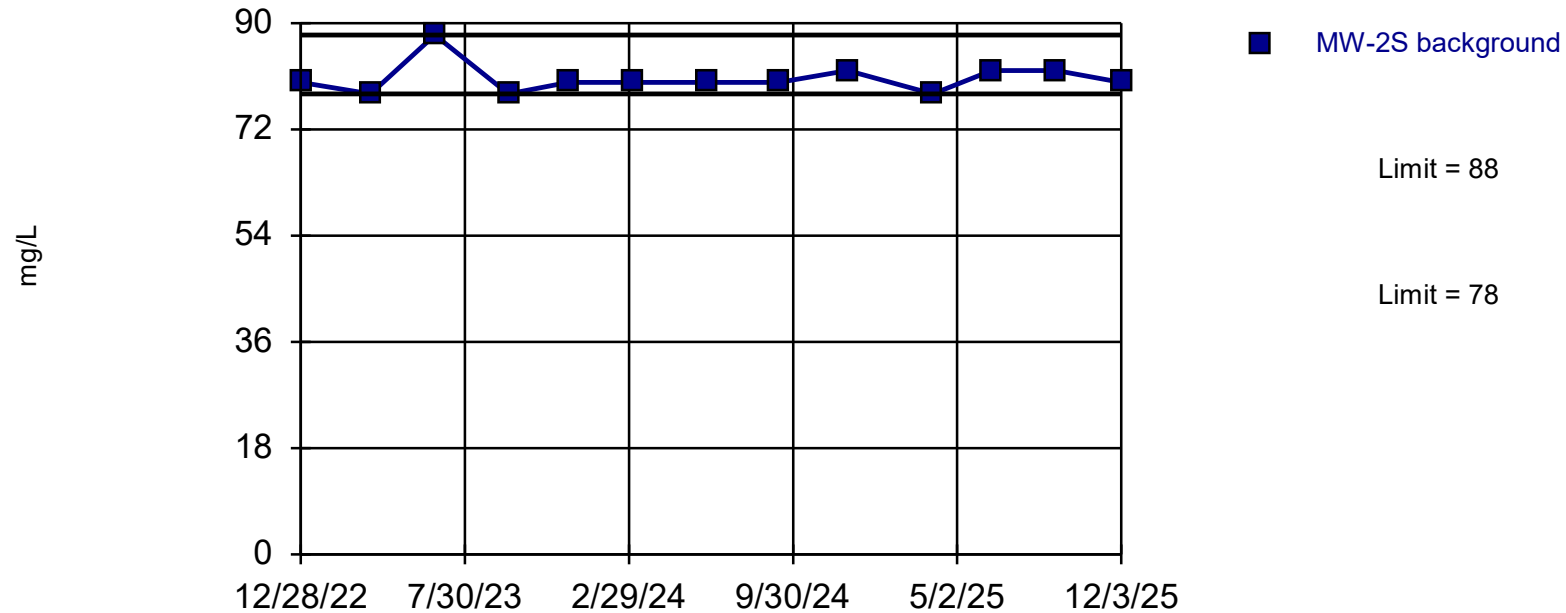
Non-parametric test used in lieu of parametric anova because Levene's Equality of Variance test failed at the 0.05 alpha level.

Attachment F

Upper Prediction Limits
for 2026-2027

Prediction Limit

Intrawell Non-parametric, MW-2S

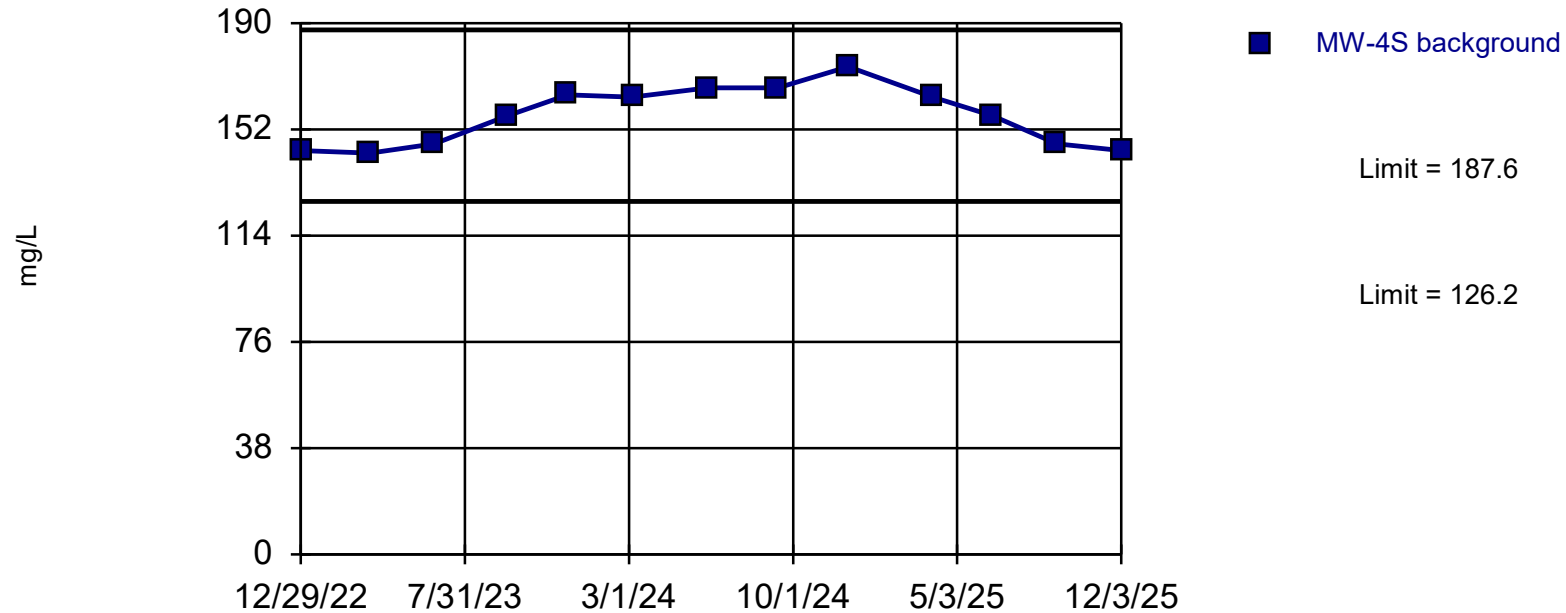


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 13 background values. Well-constituent pair annual alpha = 0.07379. Individual comparison alpha = 0.01871 (1 of 2). Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:17 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-4S

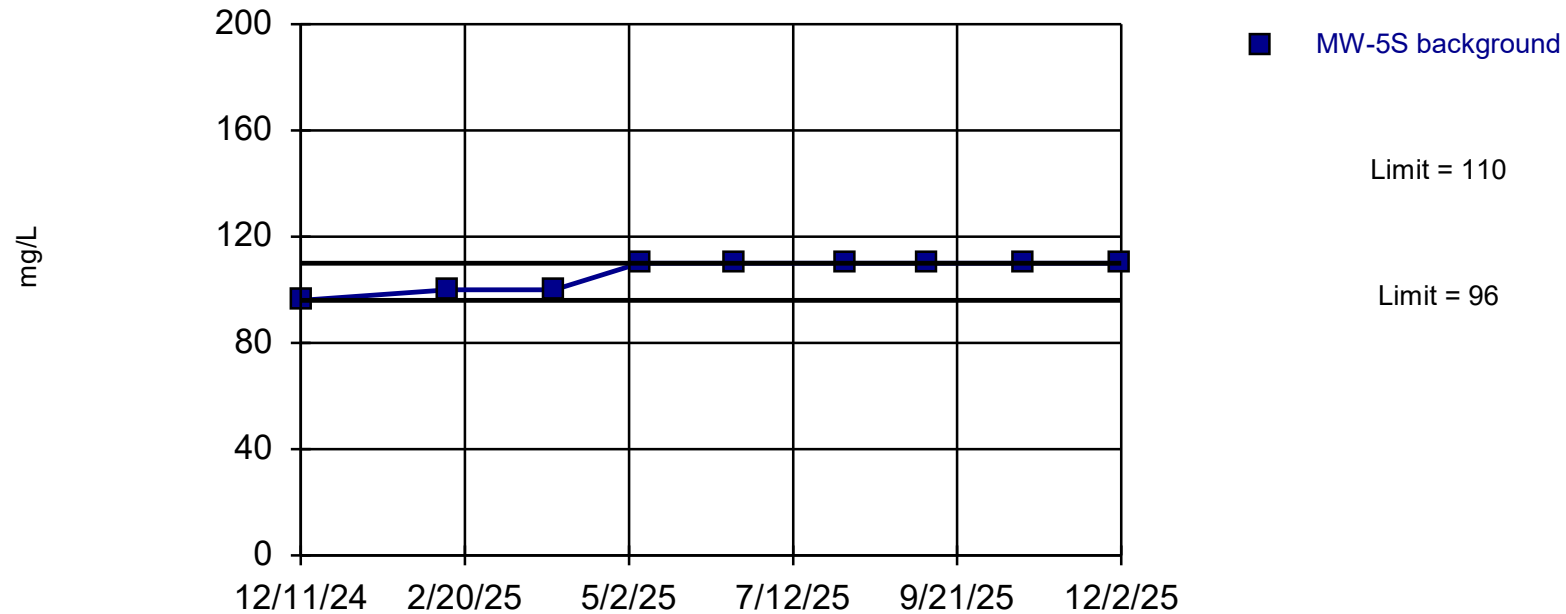


Background Data Summary: Mean=156.9, Std. Dev.=10.57, n=13. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8928, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:17 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-5S

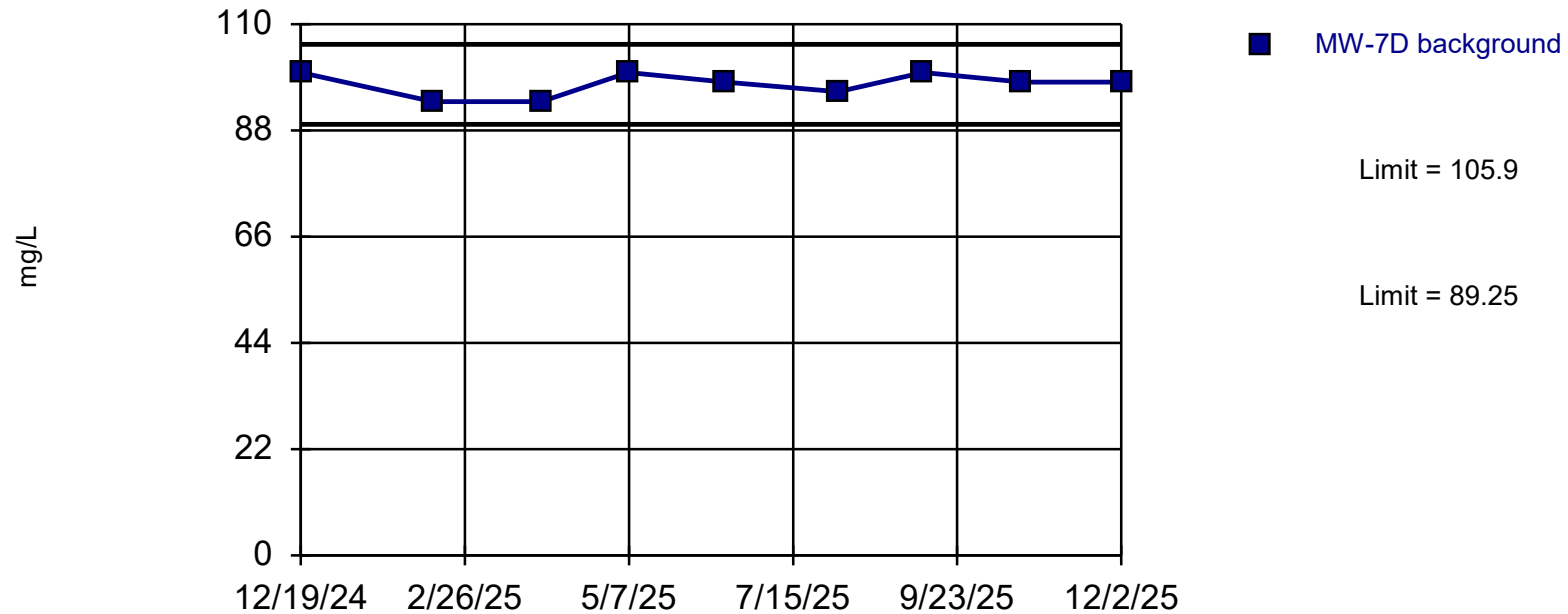


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.1331. Individual comparison alpha = 0.03414 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:17 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-7D

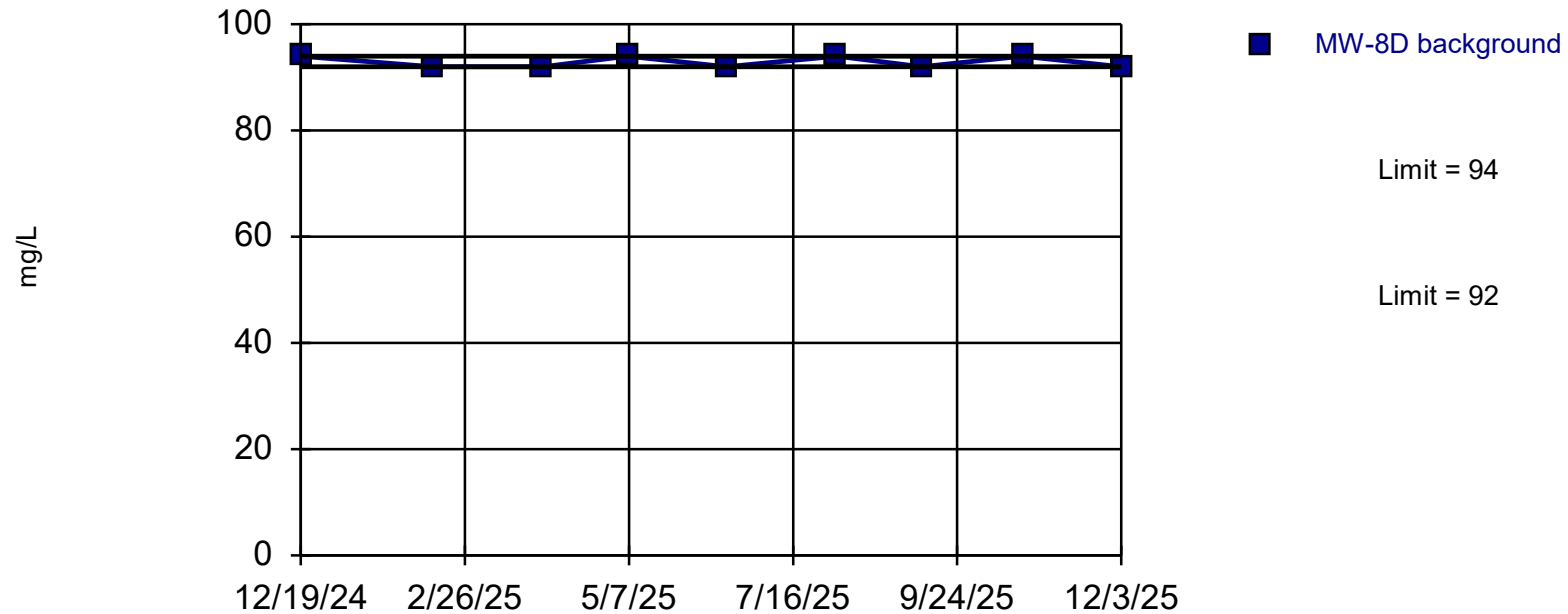


Background Data Summary: Mean=97.56, Std. Dev.=2.404, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8504, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:17 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-8D



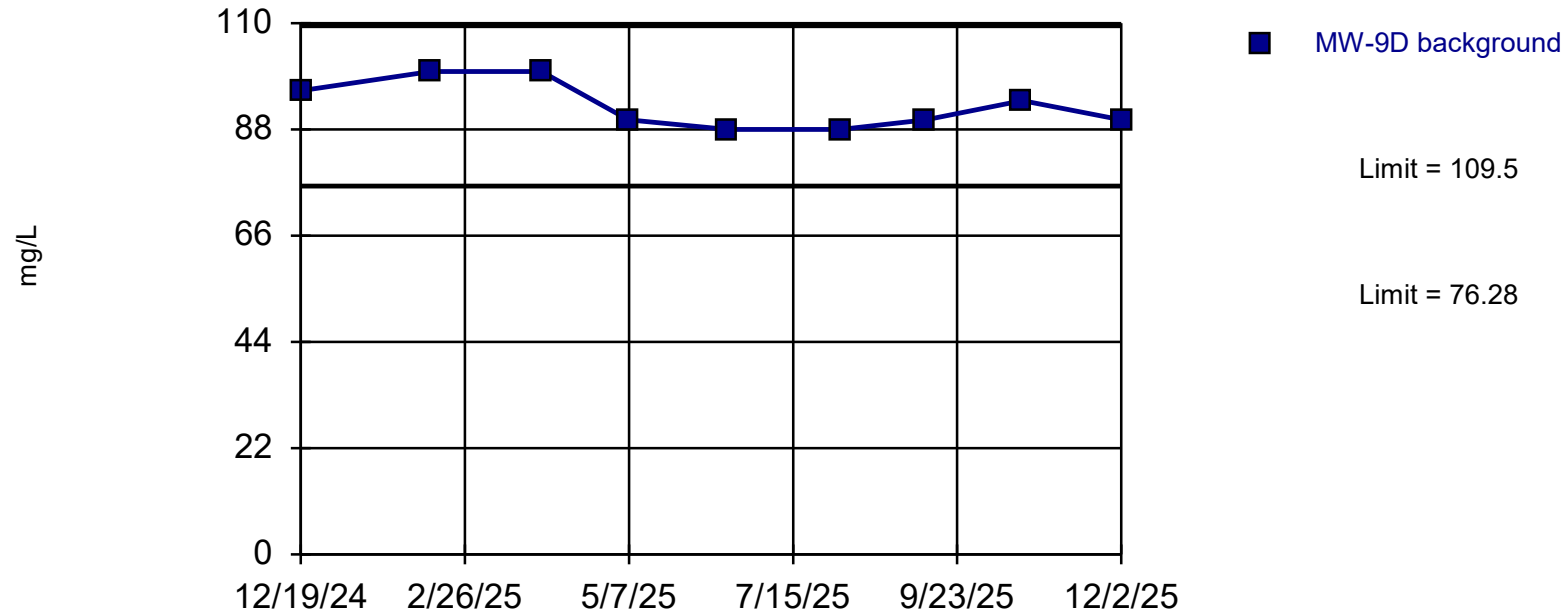
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.1331. Individual comparison alpha = 0.03414 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:17 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-9D

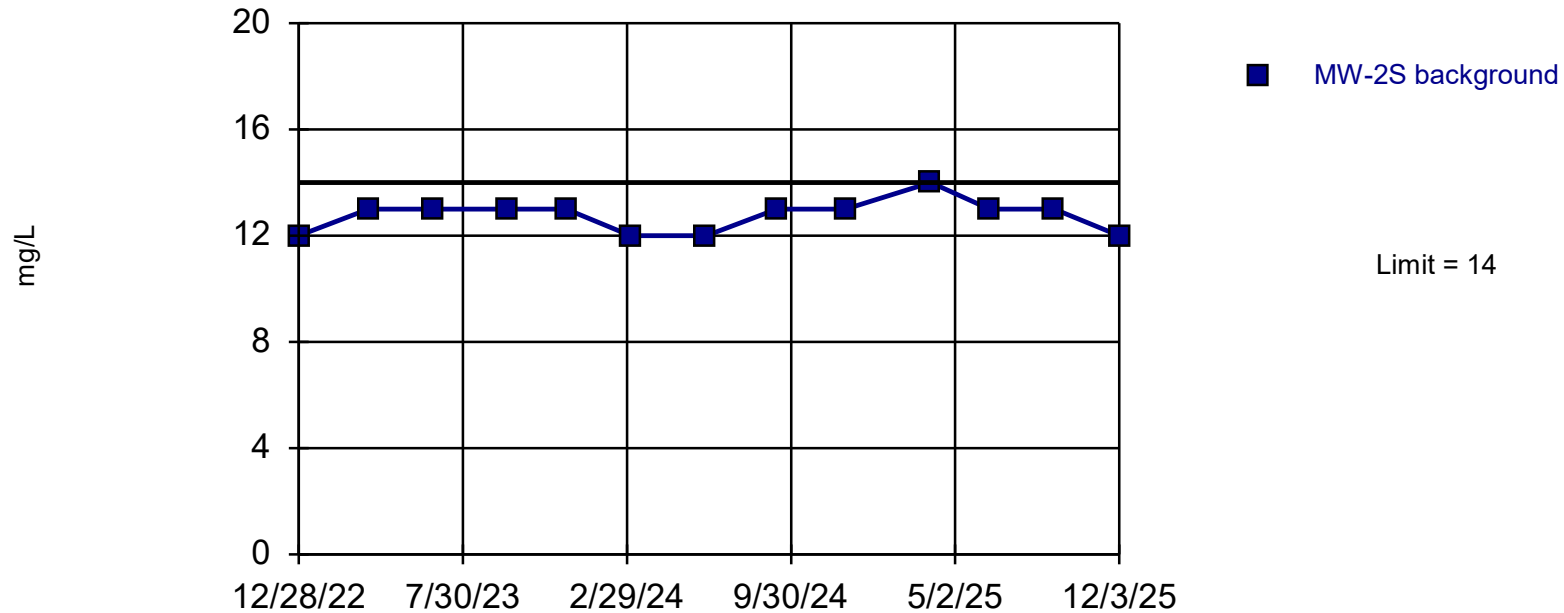


Background Data Summary: Mean=92.89, Std. Dev.=4.807, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8482, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:17 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-2S

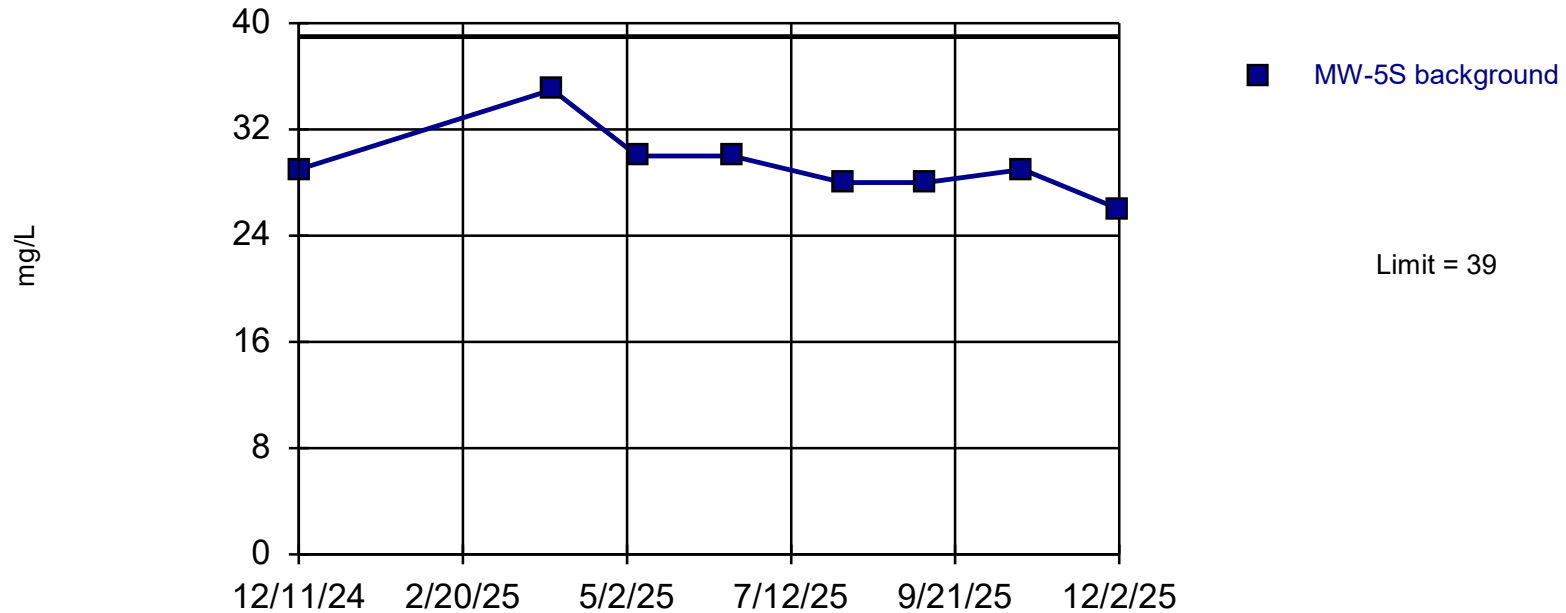


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.03689. Individual comparison alpha = 0.009354 (1 of 2). Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-5S

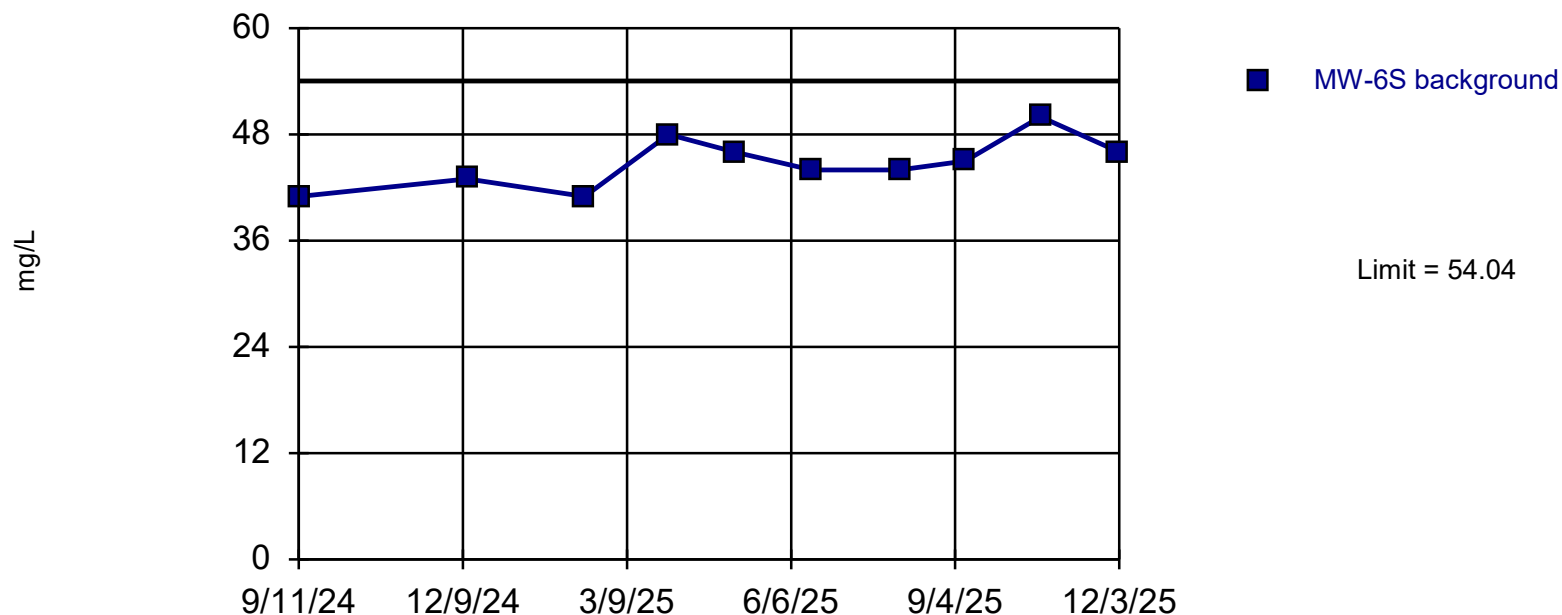


Background Data Summary: Mean=29.38, Std. Dev.=2.615, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8631, critical = 0.749. Kappa = 3.68 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-6S

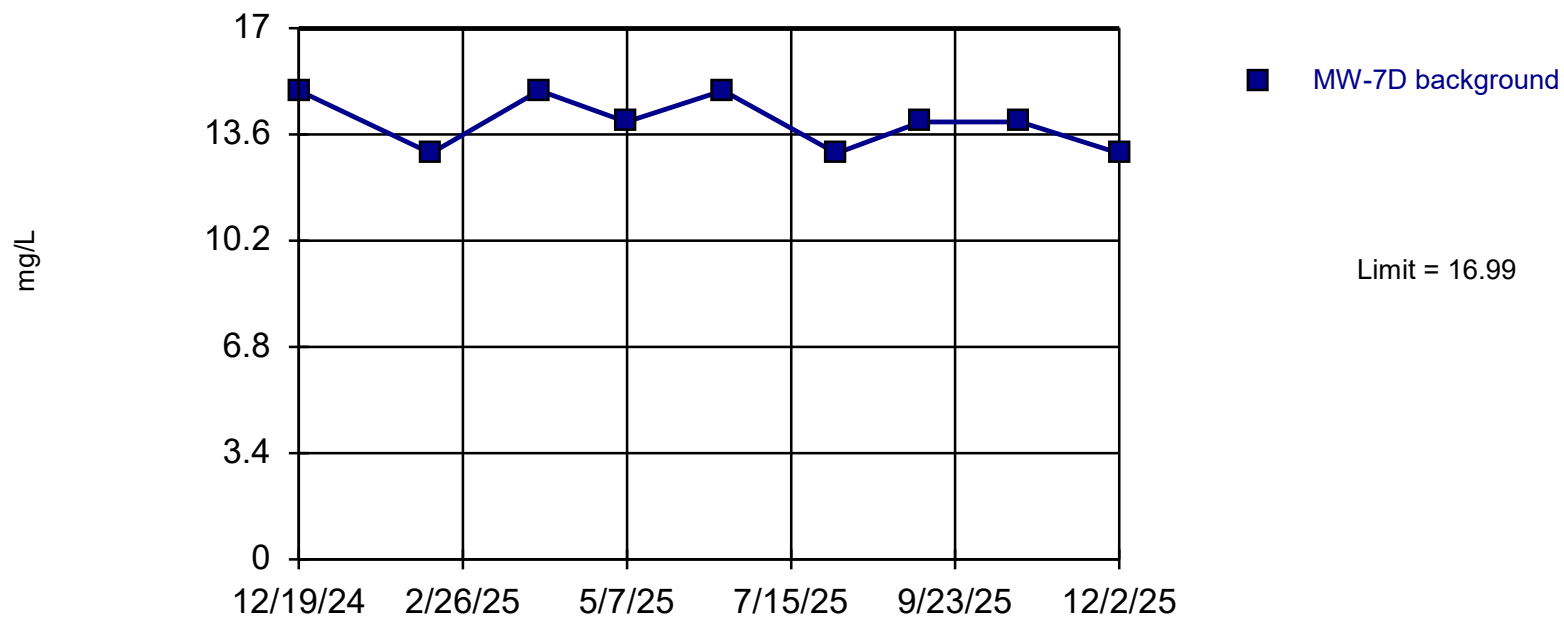


Background Data Summary: Mean=44.8, Std. Dev.=2.86, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.781. Kappa = 3.23 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-7D

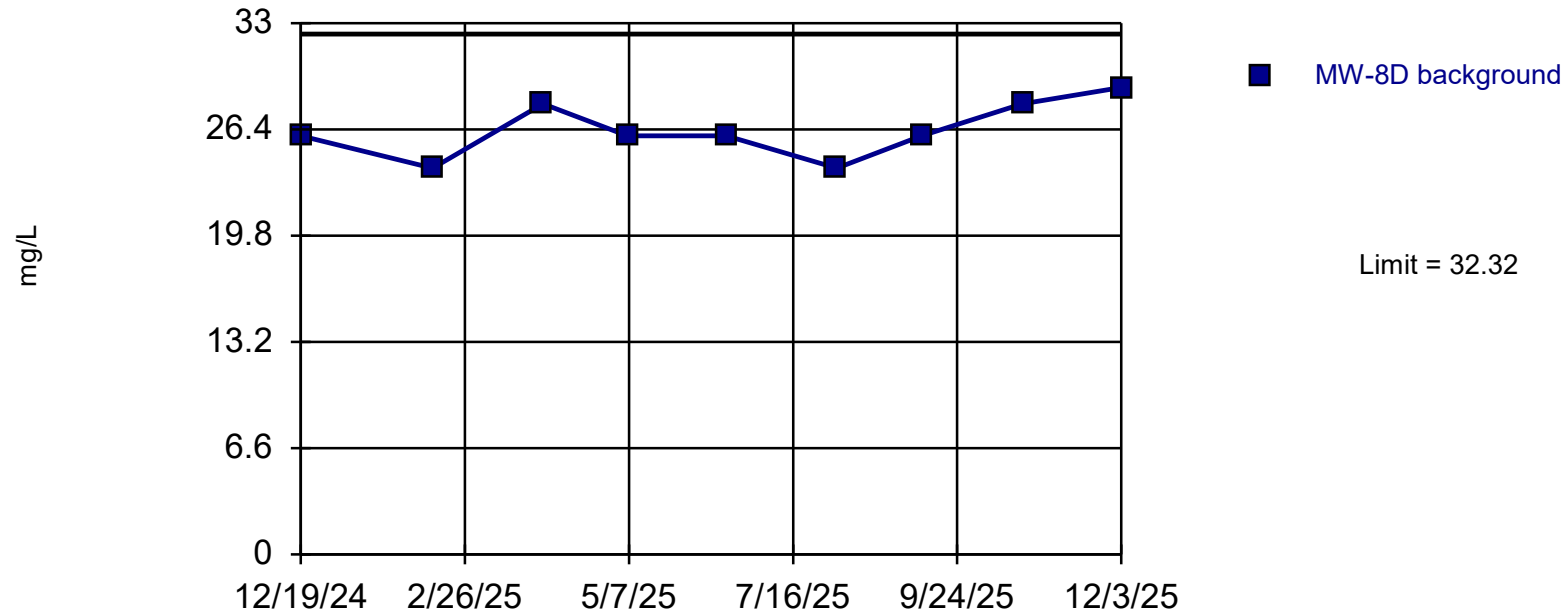


Background Data Summary: Mean=14, Std. Dev.=0.866, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8226, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-8D

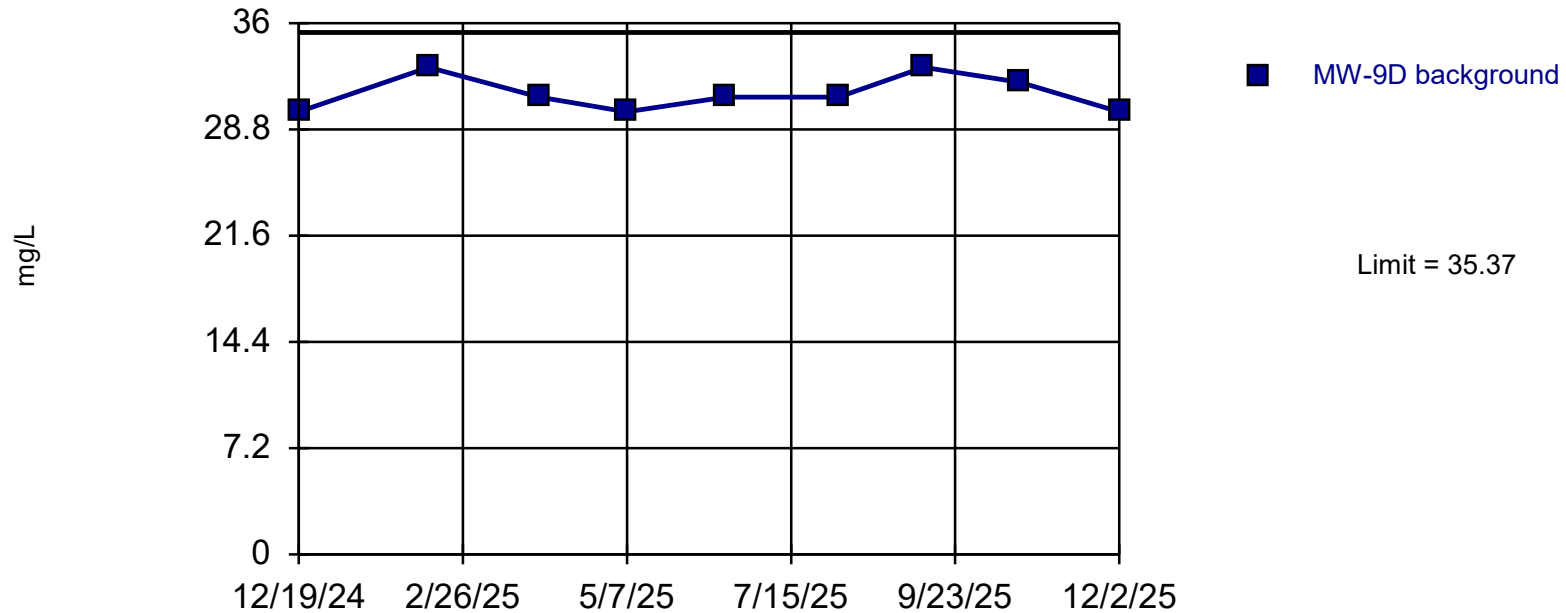


Background Data Summary: Mean=26.33, Std. Dev.=1.732, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8958, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-9D

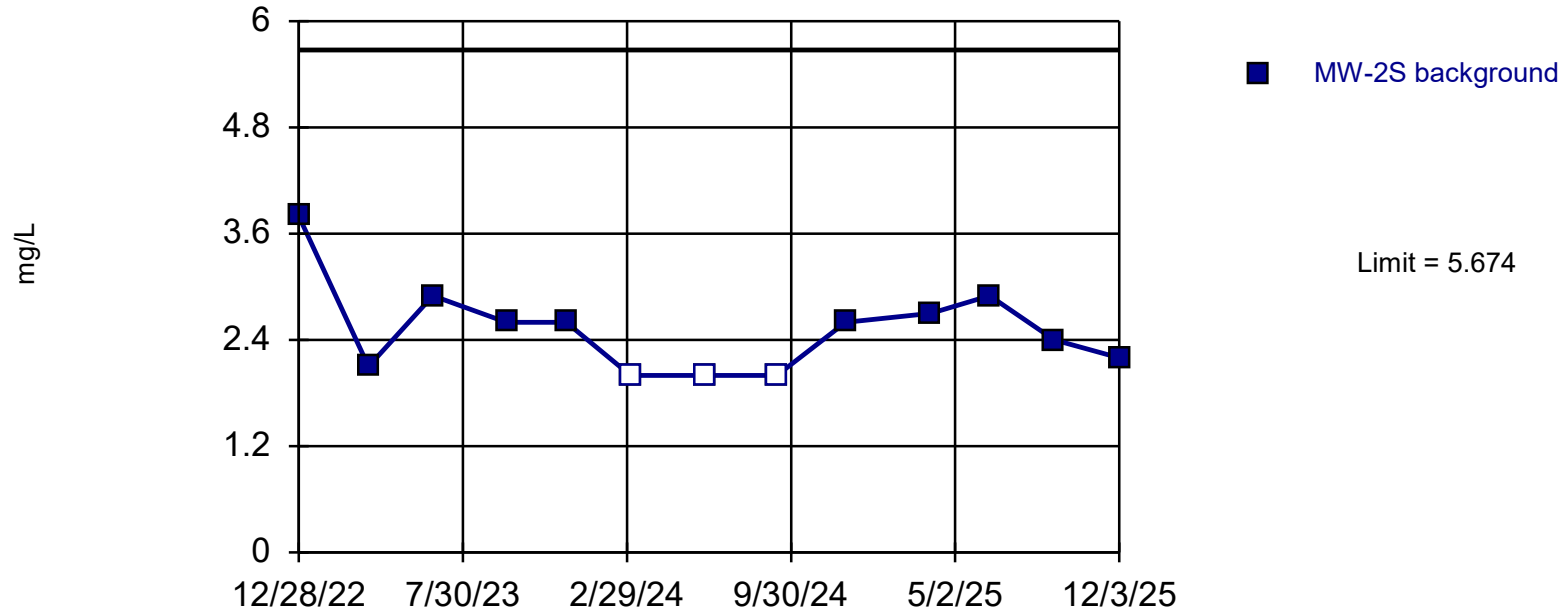


Background Data Summary: Mean=31.22, Std. Dev.=1.202, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8504, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-2S

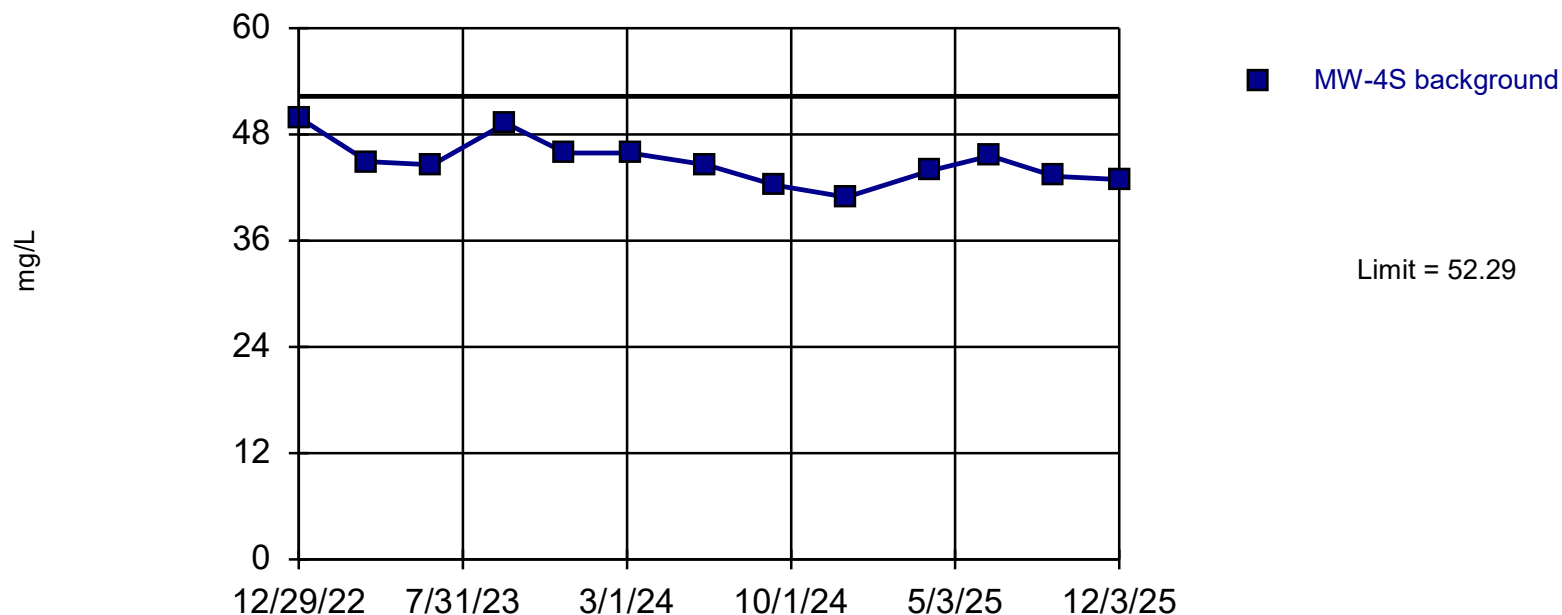


Background Data Summary (after Aitchison's Adjustment): Mean=2.062, Std. Dev.=1.245, n=13, 23.08% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8704, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Chloride Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-4S



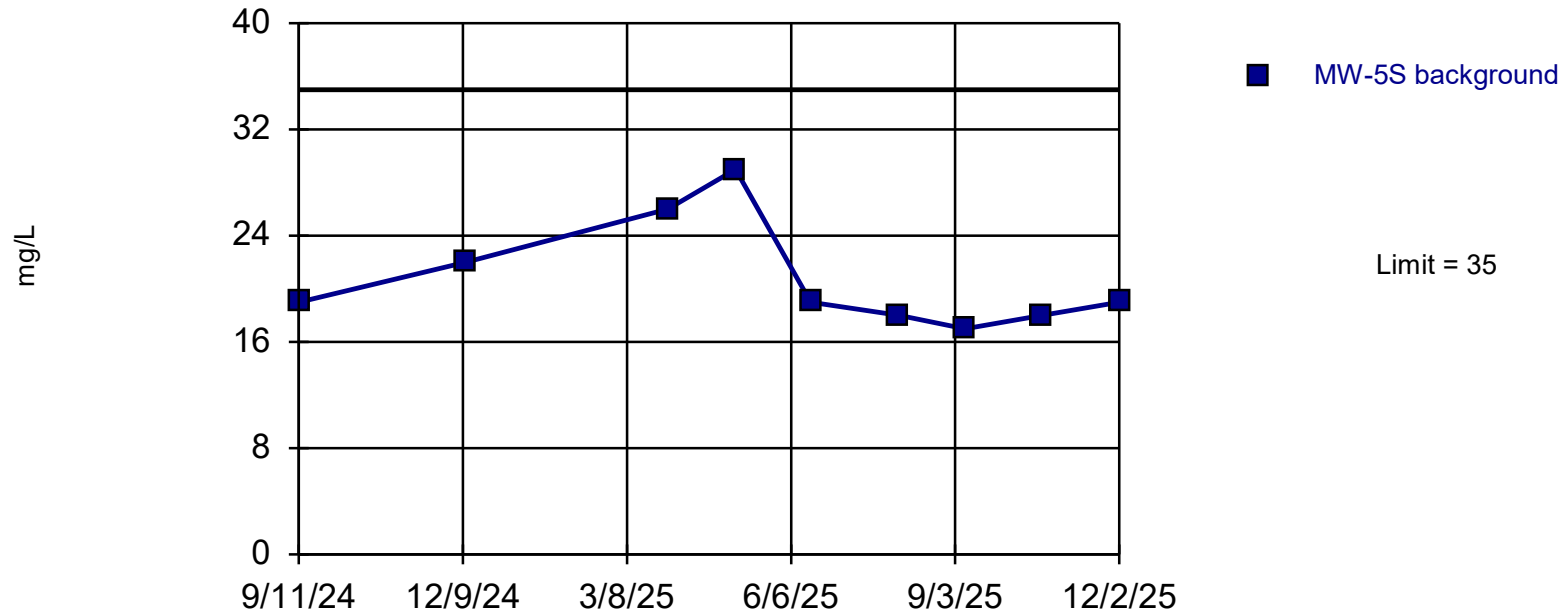
Background Data Summary: Mean=44.92, Std. Dev.=2.539, n=13. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.941, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Chloride Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

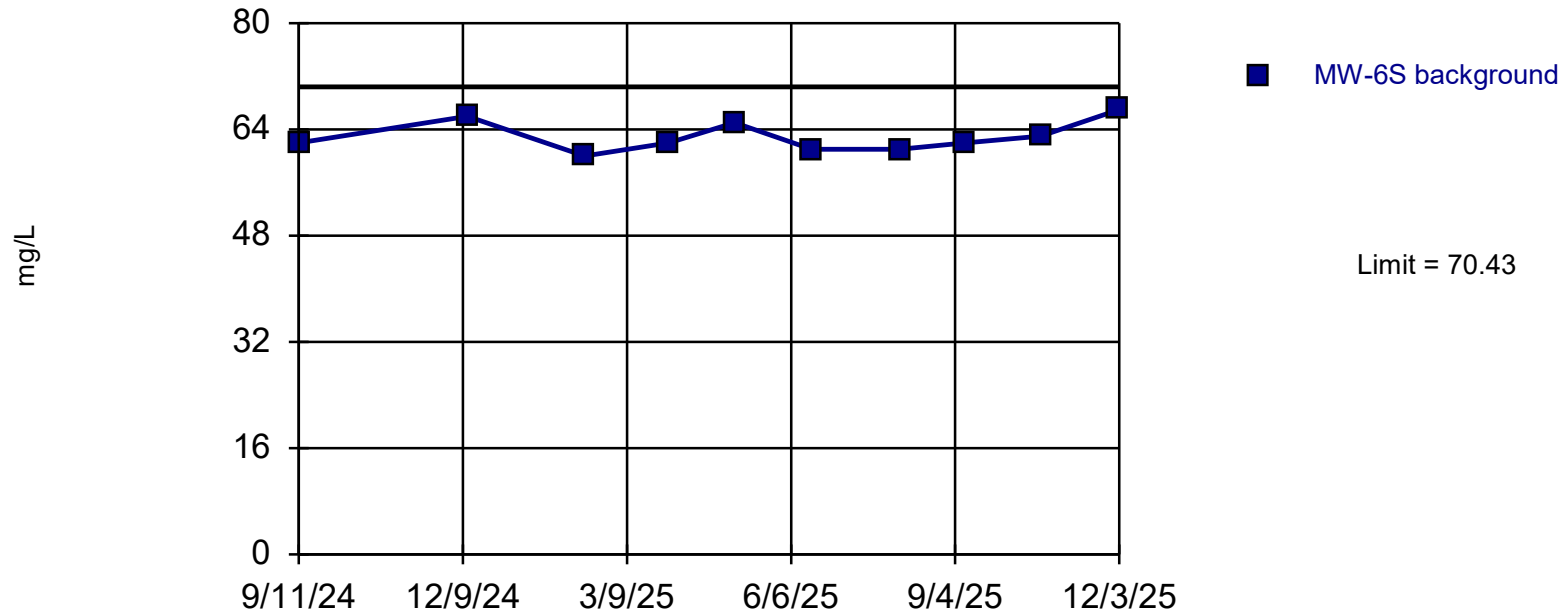
Intrawell Parametric, MW-5S



Background Data Summary: Mean=20.78, Std. Dev.=4.116, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8058, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Chloride Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit Intrawell Parametric, MW-6S

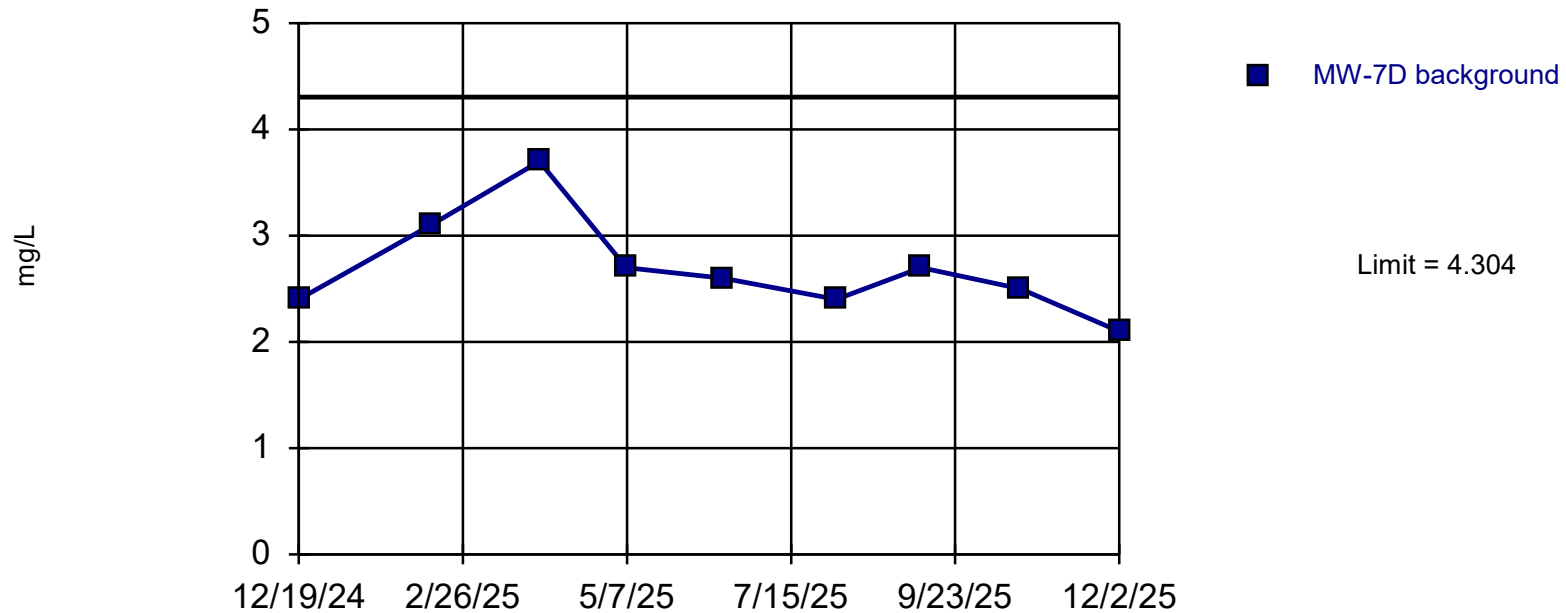


Background Data Summary: Mean=62.9, Std. Dev.=2.331, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9021, critical = 0.781. Kappa = 3.23 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Chloride Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-7D



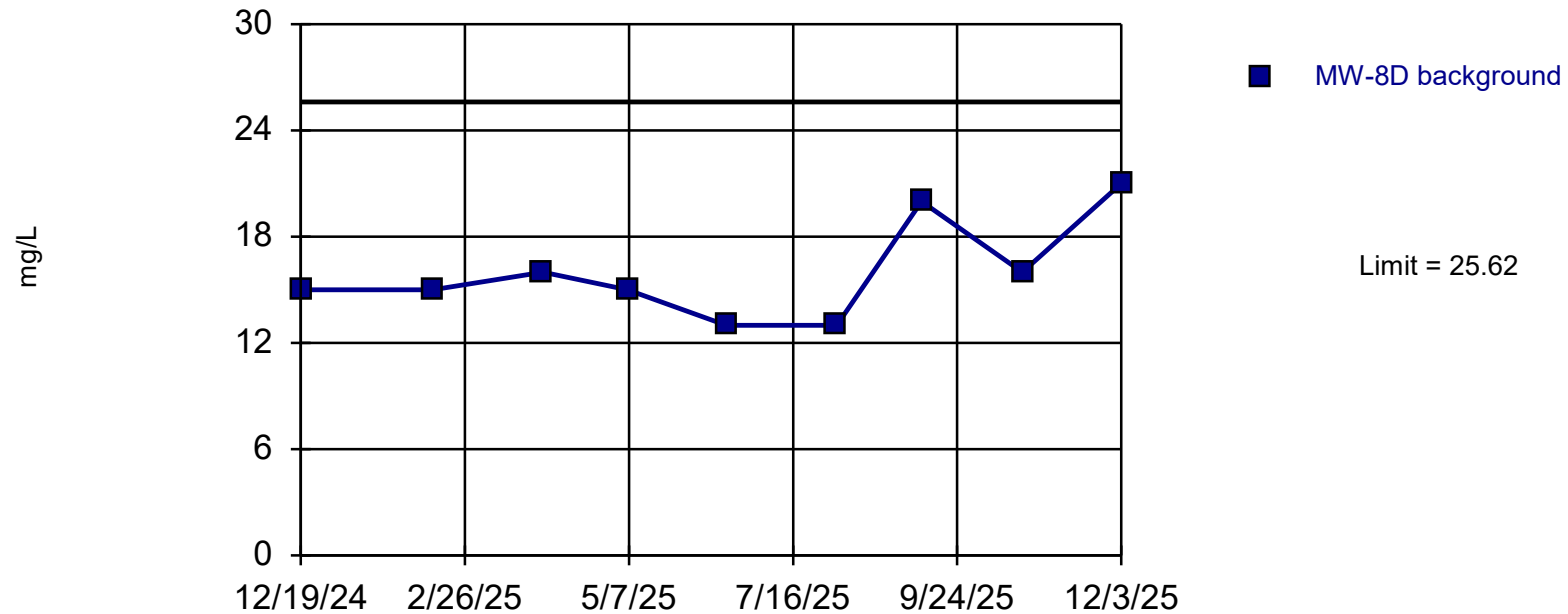
Background Data Summary: Mean=2.689, Std. Dev.=0.4676, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8897, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Chloride Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-8D

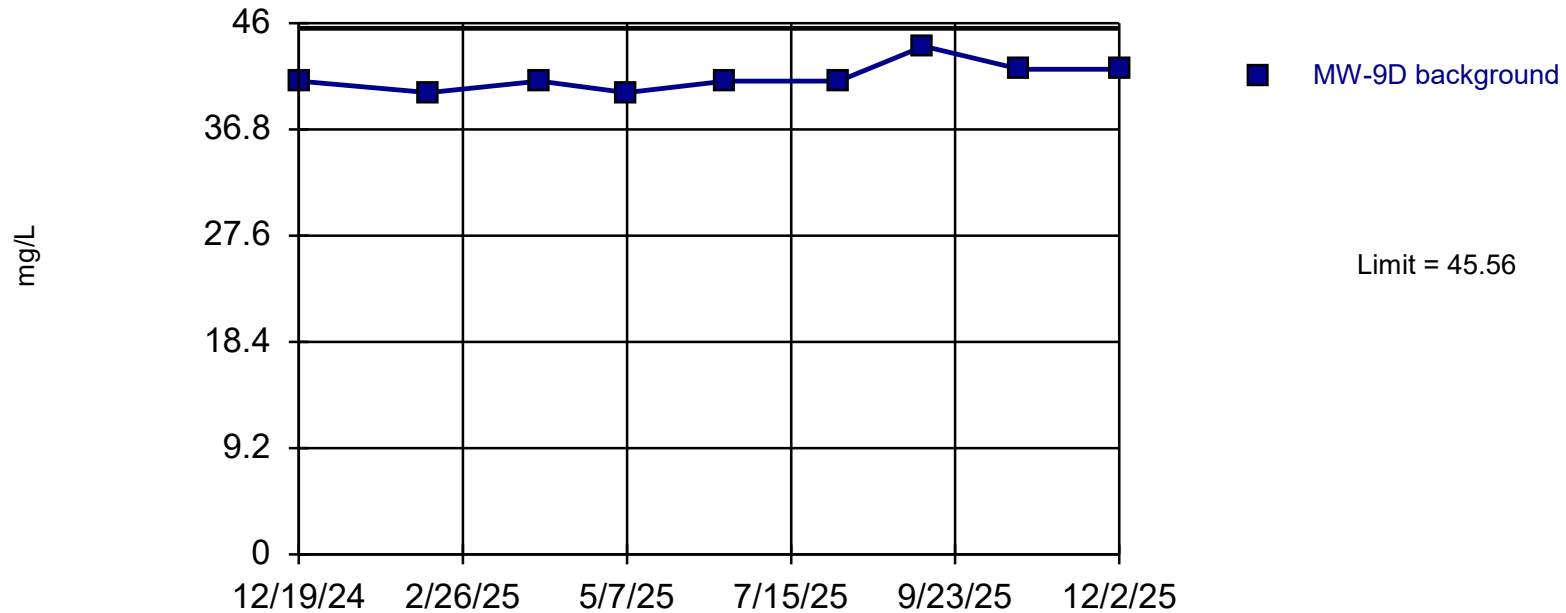


Background Data Summary: Mean=16, Std. Dev.=2.784, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8533, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Chloride Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-9D

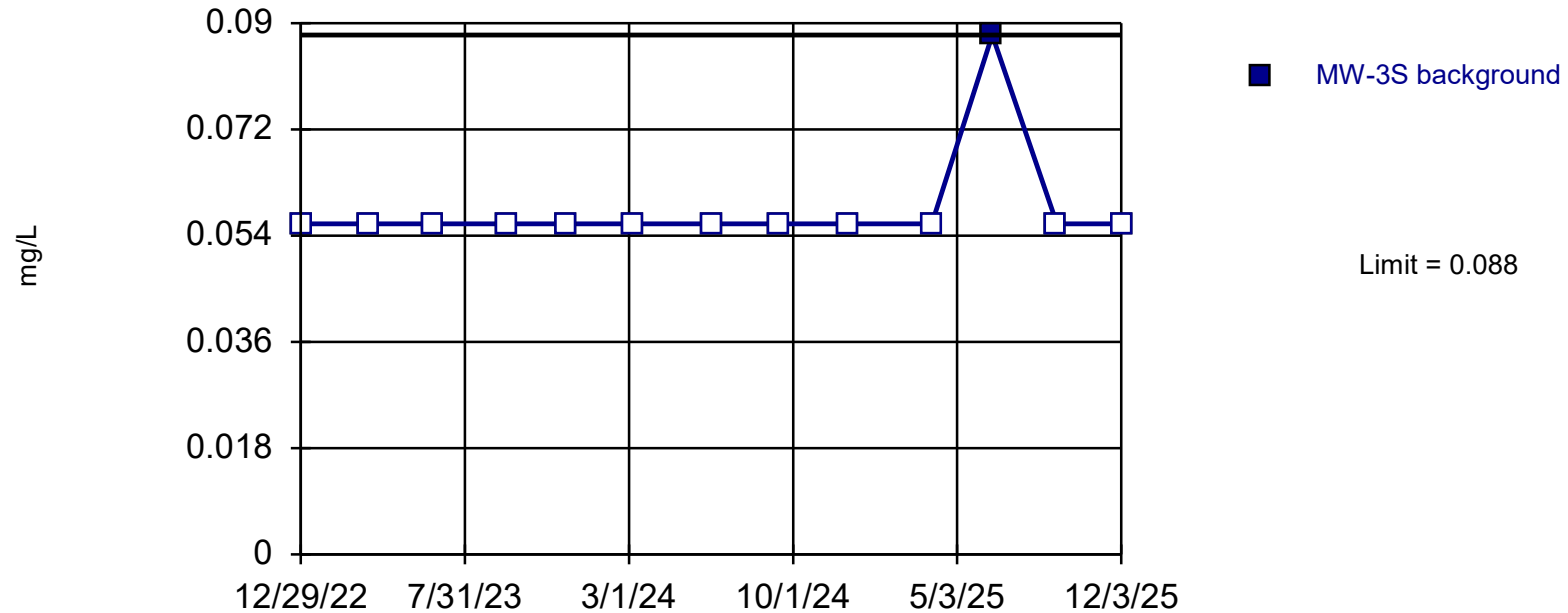


Background Data Summary: Mean=41.33, Std. Dev.=1.225, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8542, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Chloride Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-3S

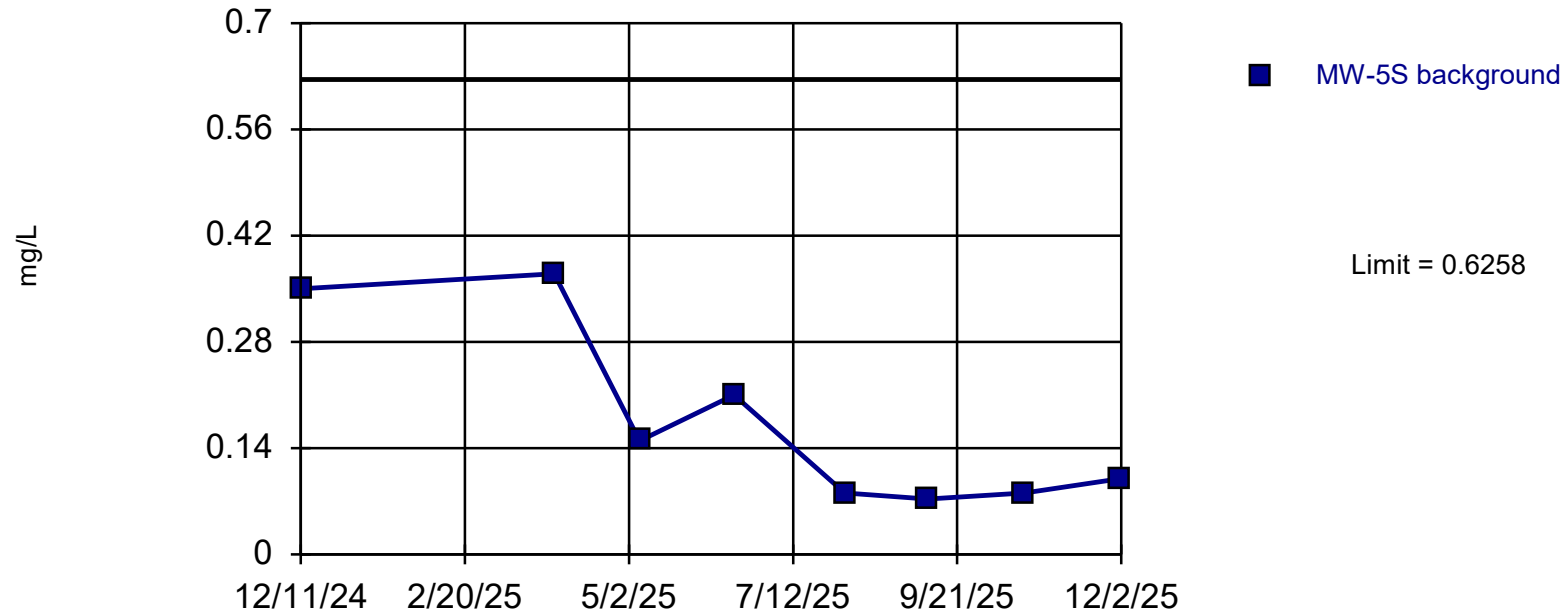


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.03689. Individual comparison alpha = 0.009354 (1 of 2). Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Iron, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-5S

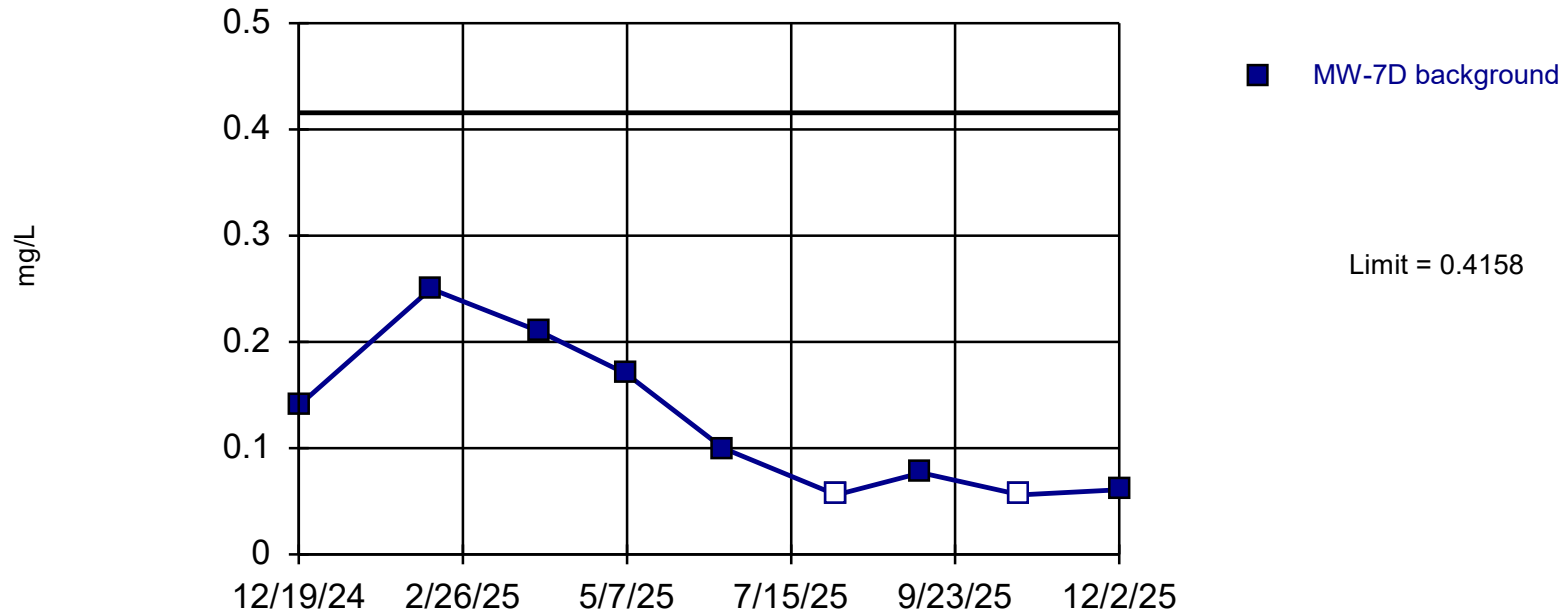


Background Data Summary: Mean=0.1769, Std. Dev.=0.122, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8081, critical = 0.749. Kappa = 3.68 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Iron, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-7D

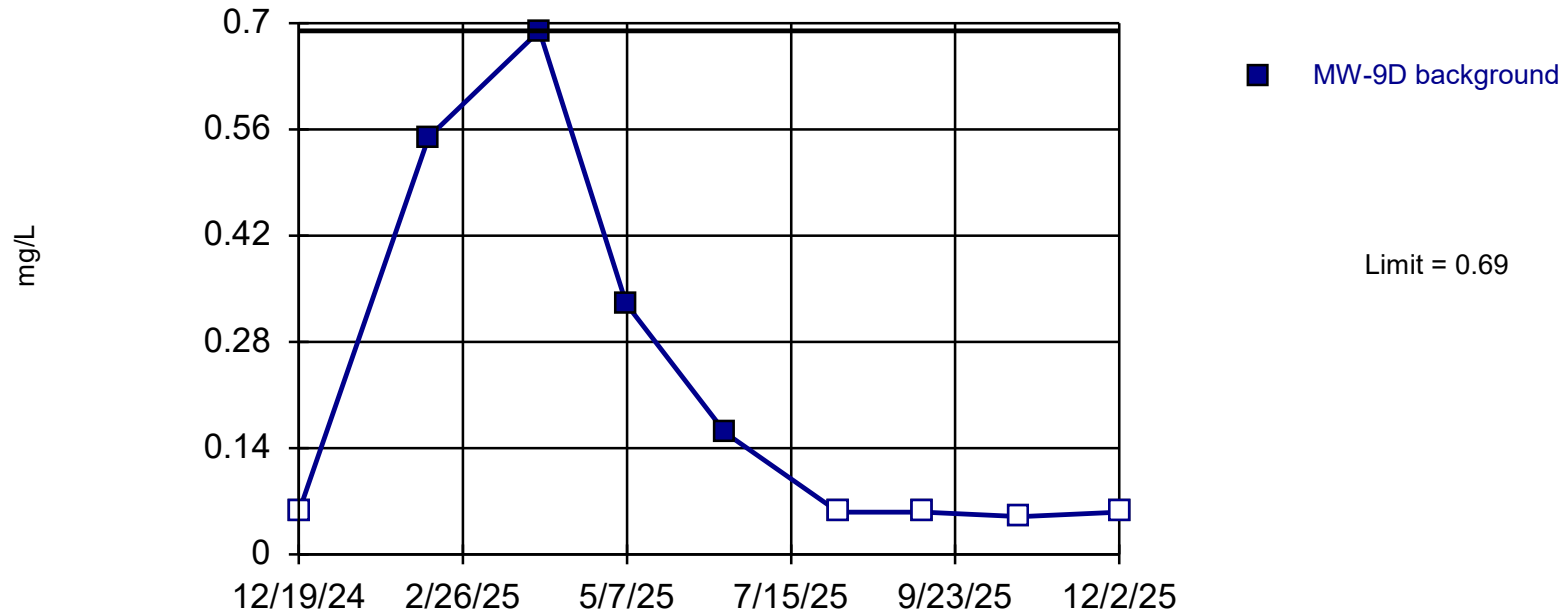


Background Data Summary (after Aitchison's Adjustment): Mean=0.112, Std. Dev.=0.08793, n=9, 22.22% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8824, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Iron, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

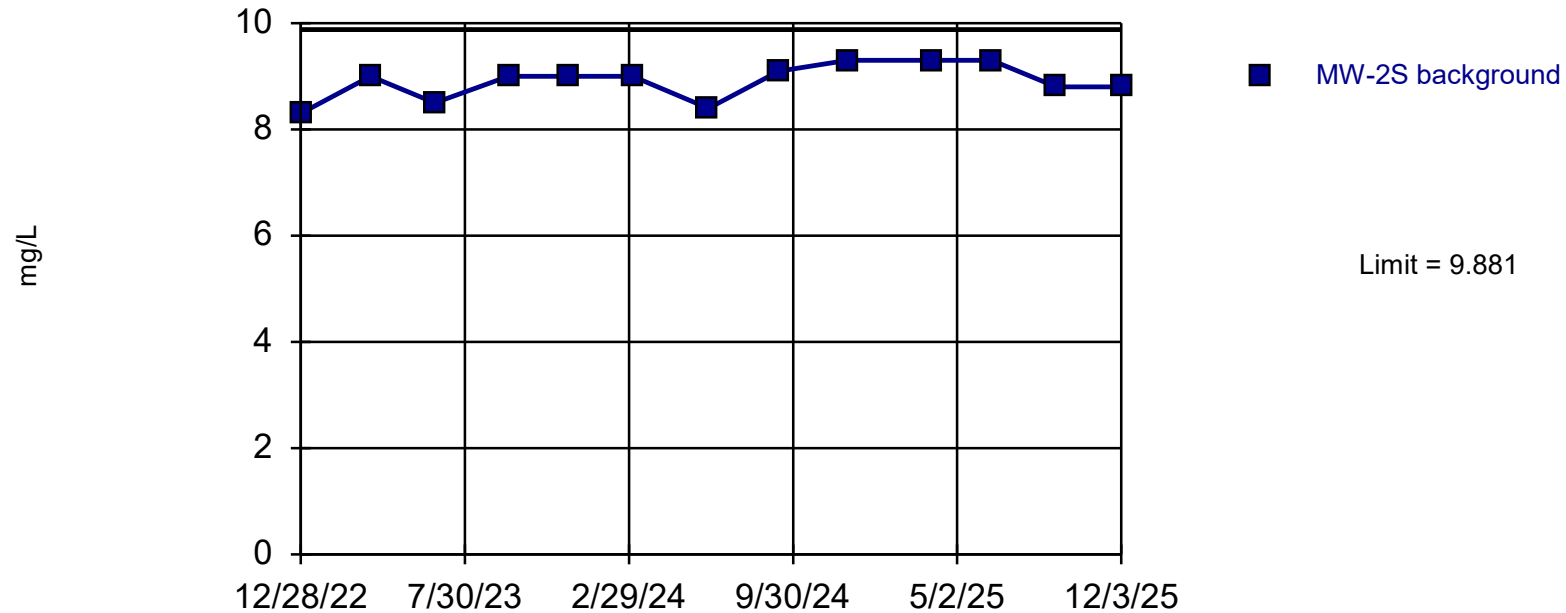
Intrawell Non-parametric, MW-9D



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Prediction Limit

Intrawell Parametric, MW-2S

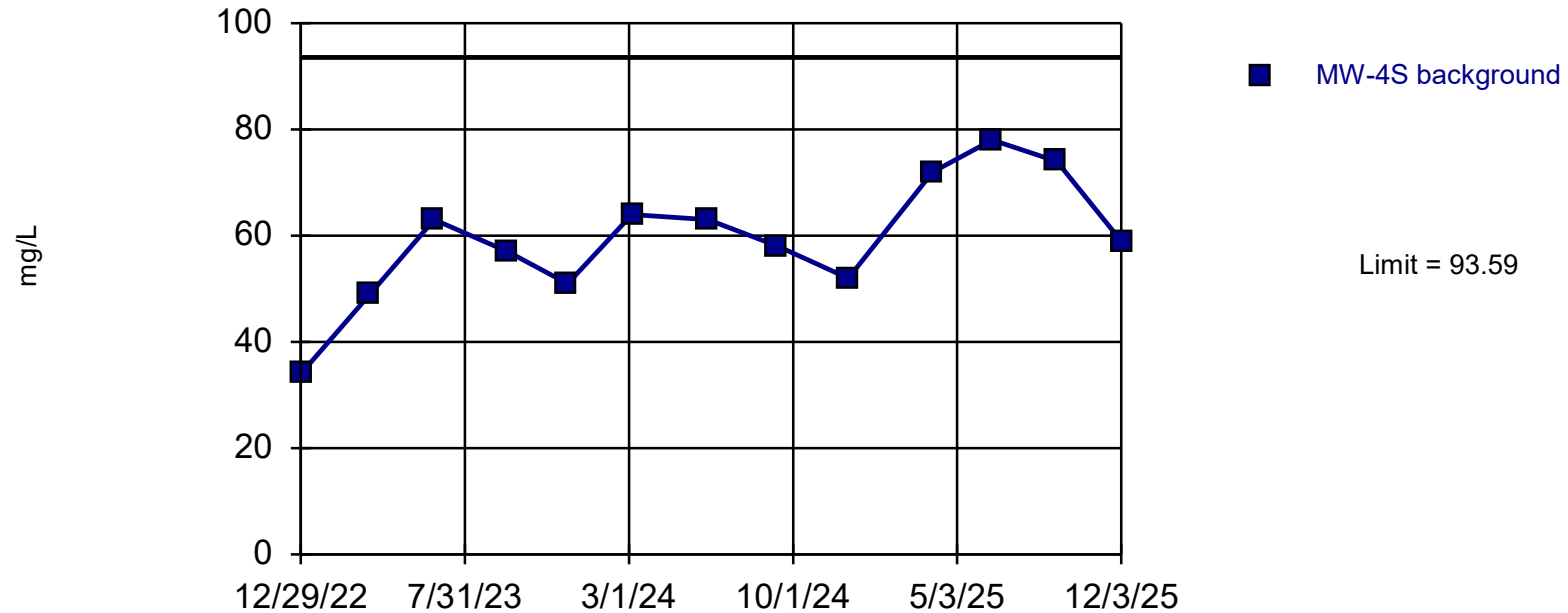


Background Data Summary: Mean=8.908, Std. Dev.=0.3353, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8989, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-4S

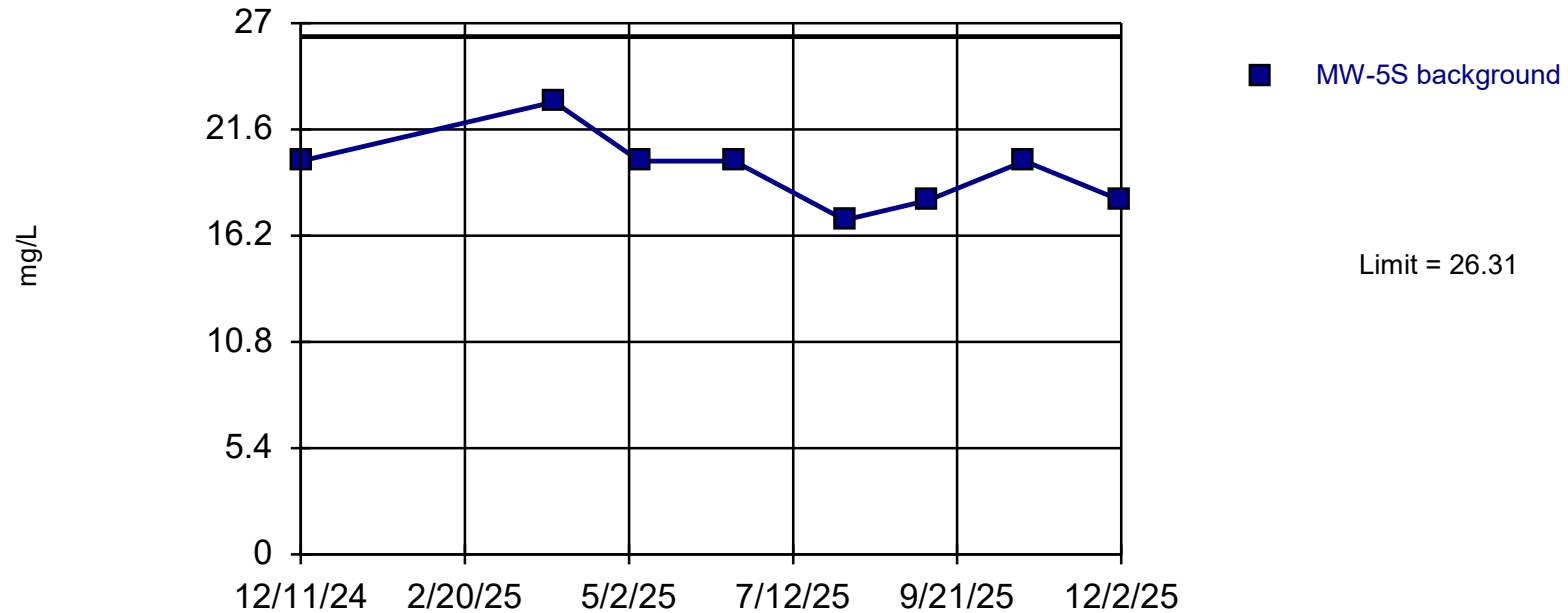


Background Data Summary: Mean=59.54, Std. Dev.=11.73, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9658, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:18 PM View: 2026-2027 UPLs & CCs 4Q22
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-5S



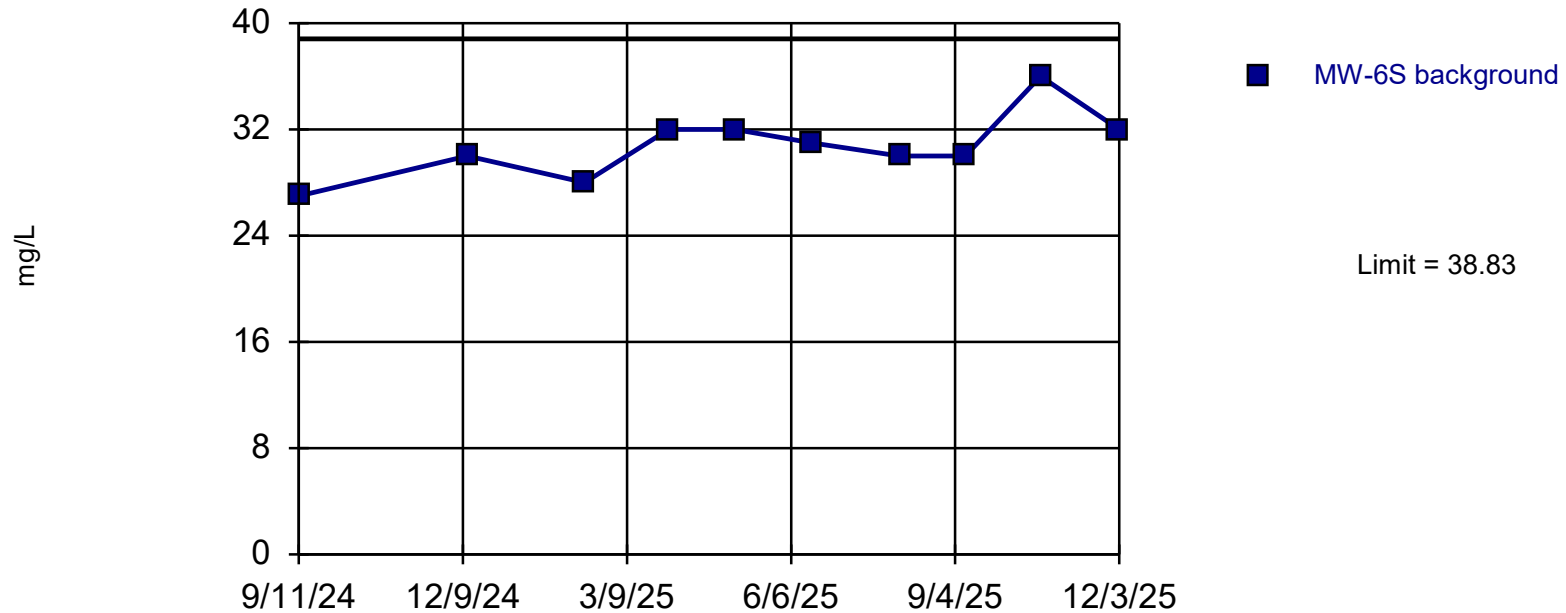
Background Data Summary: Mean=19.5, Std. Dev.=1.852, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8865, critical = 0.749. Kappa = 3.68 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-6S

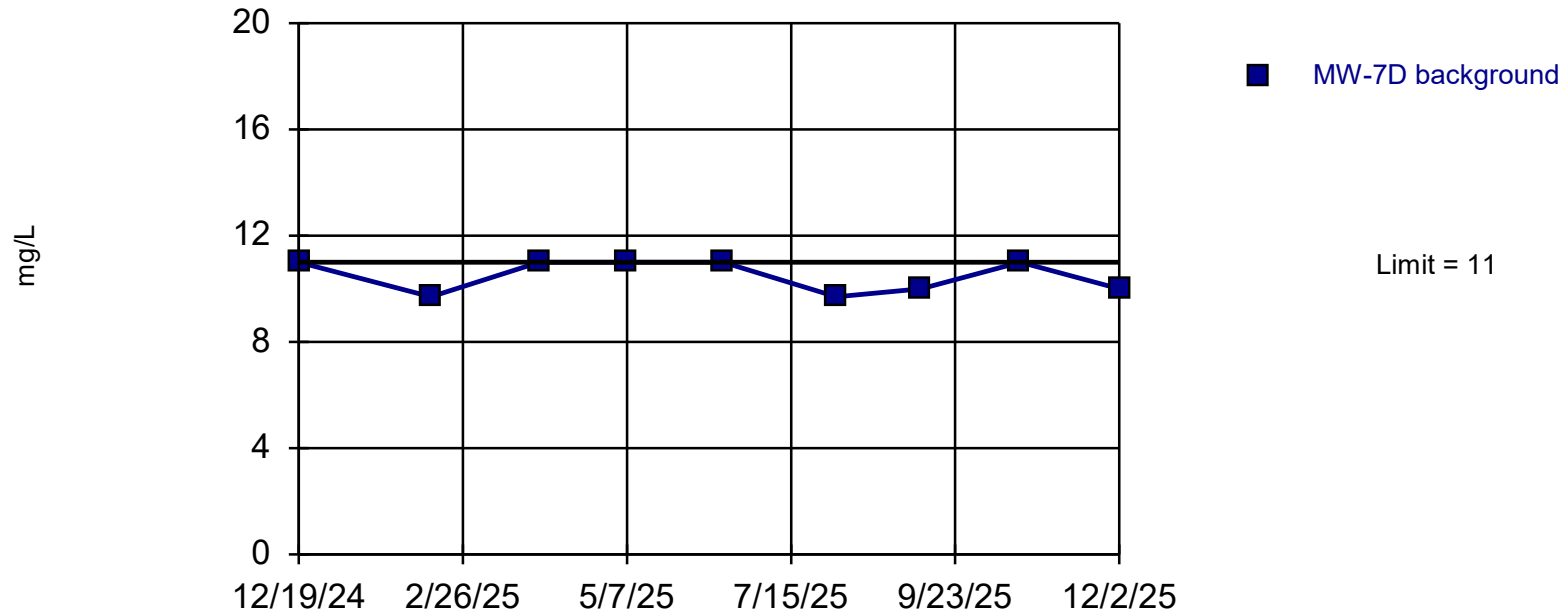


Background Data Summary: Mean=30.8, Std. Dev.=2.486, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9309, critical = 0.781. Kappa = 3.23 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-7D



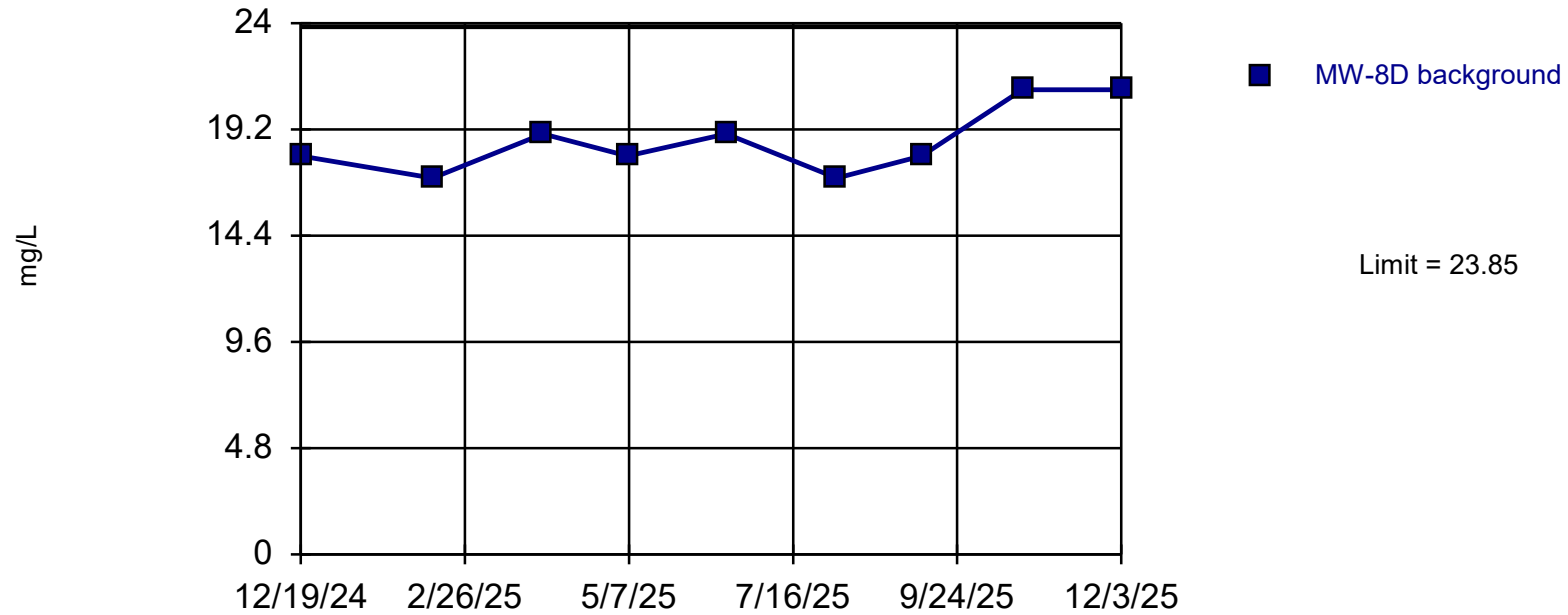
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-8D

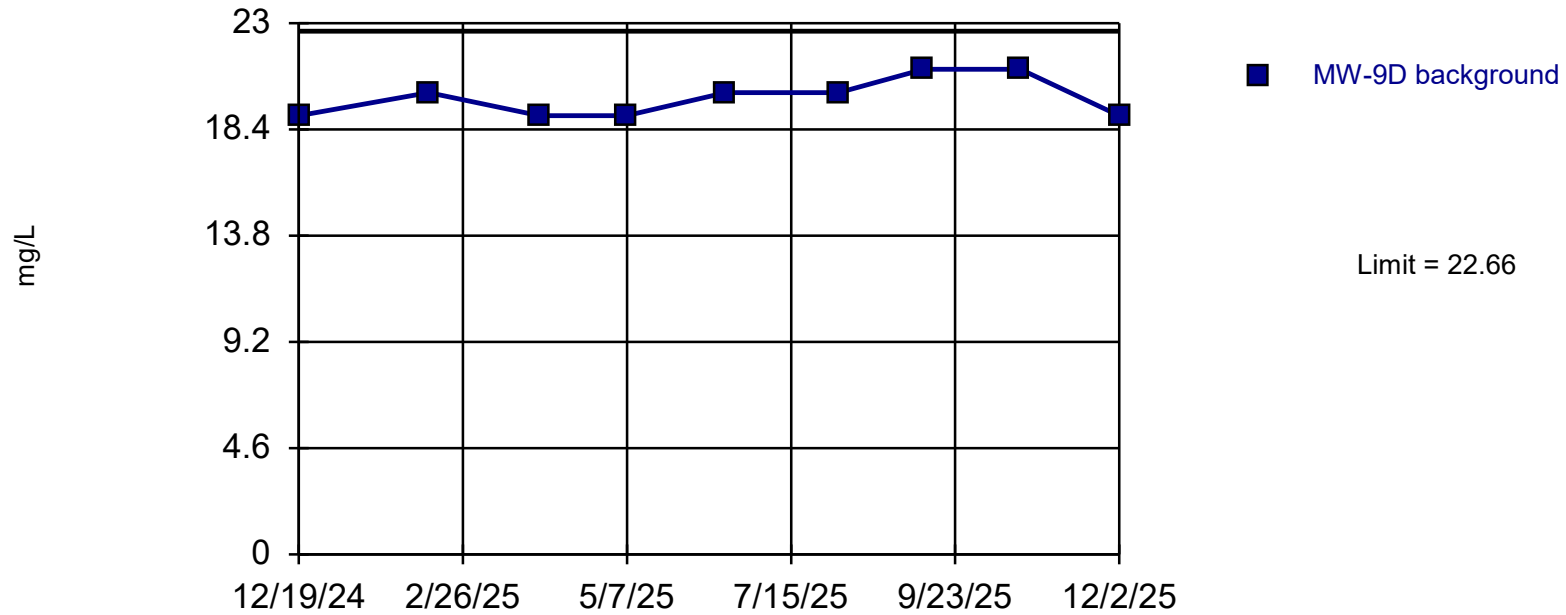


Background Data Summary: Mean=18.67, Std. Dev.=1.5, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8647, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-9D

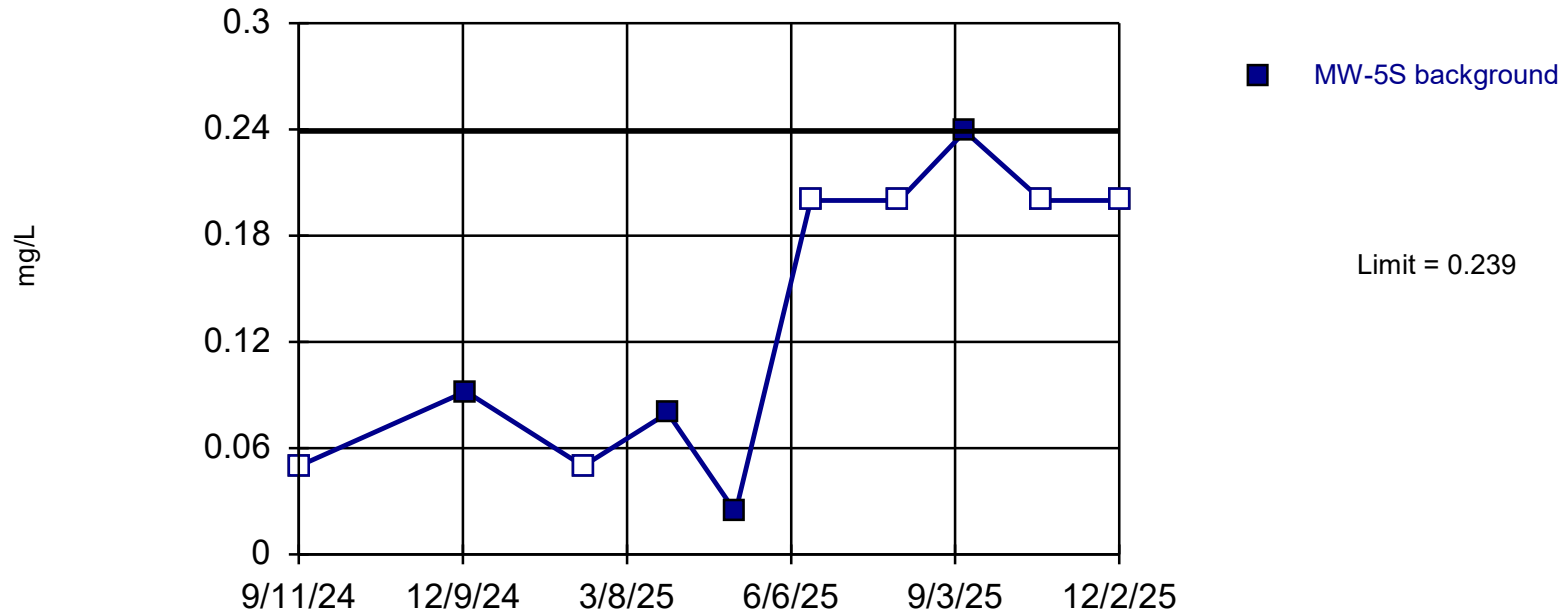


Background Data Summary: Mean=19.78, Std. Dev.=0.8333, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.808, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-5S

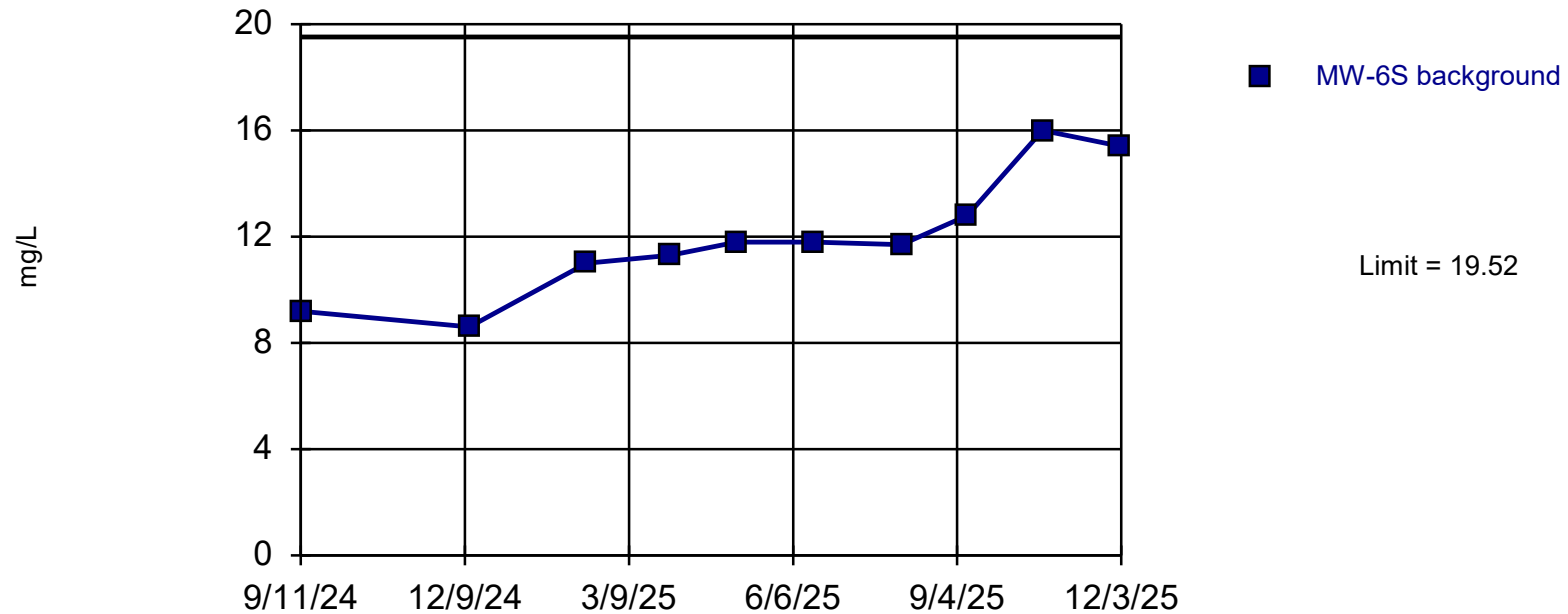


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.05509. Individual comparison alpha = 0.01407 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Nitrate Analysis Run 3/30/2026 5:04 PM View: 2026-2027 UPL & CC Nitrate
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-6S

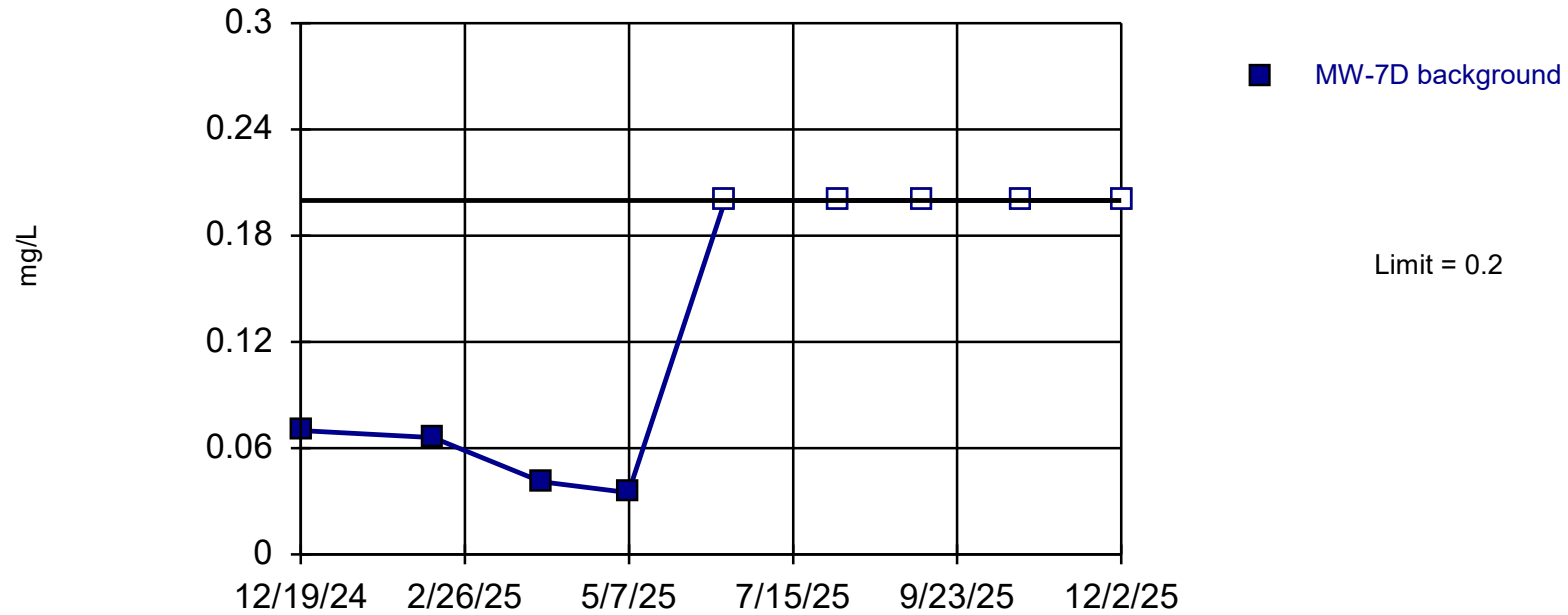


Background Data Summary: Mean=11.96, Std. Dev.=2.339, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.781. Kappa = 3.23 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Nitrate Analysis Run 3/30/2026 5:04 PM View: 2026-2027 UPL & CC Nitrate
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

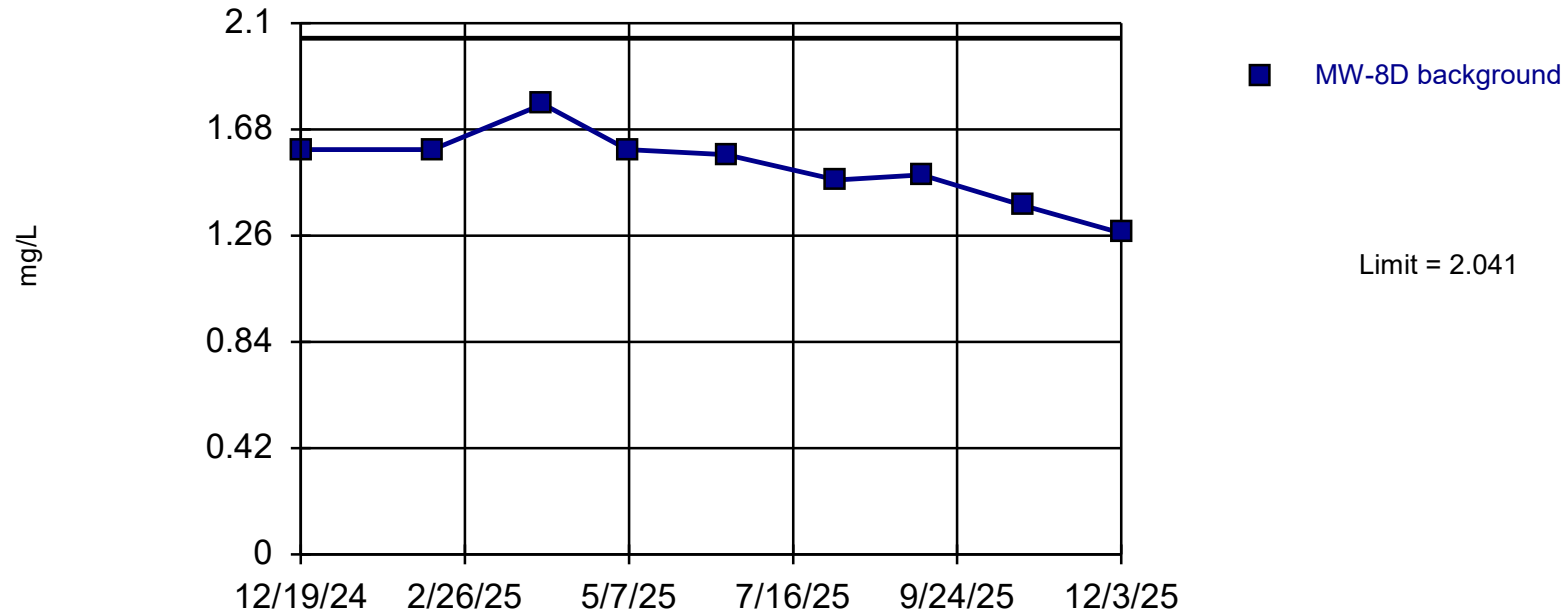
Intrawell Non-parametric, MW-7D



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Prediction Limit

Intrawell Parametric, MW-8D

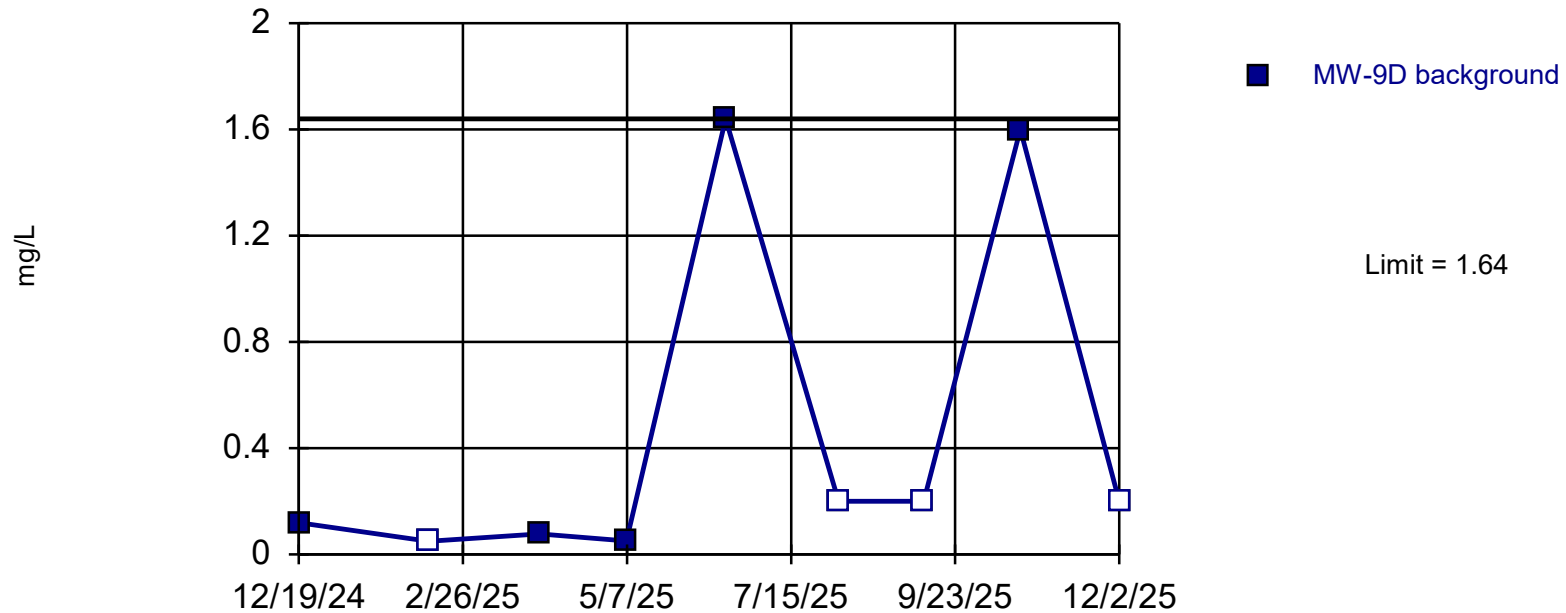


Background Data Summary: Mean=1.532, Std. Dev.=0.1471, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9465, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Nitrate Analysis Run 3/30/2026 5:04 PM View: 2026-2027 UPL & CC Nitrate
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-9D

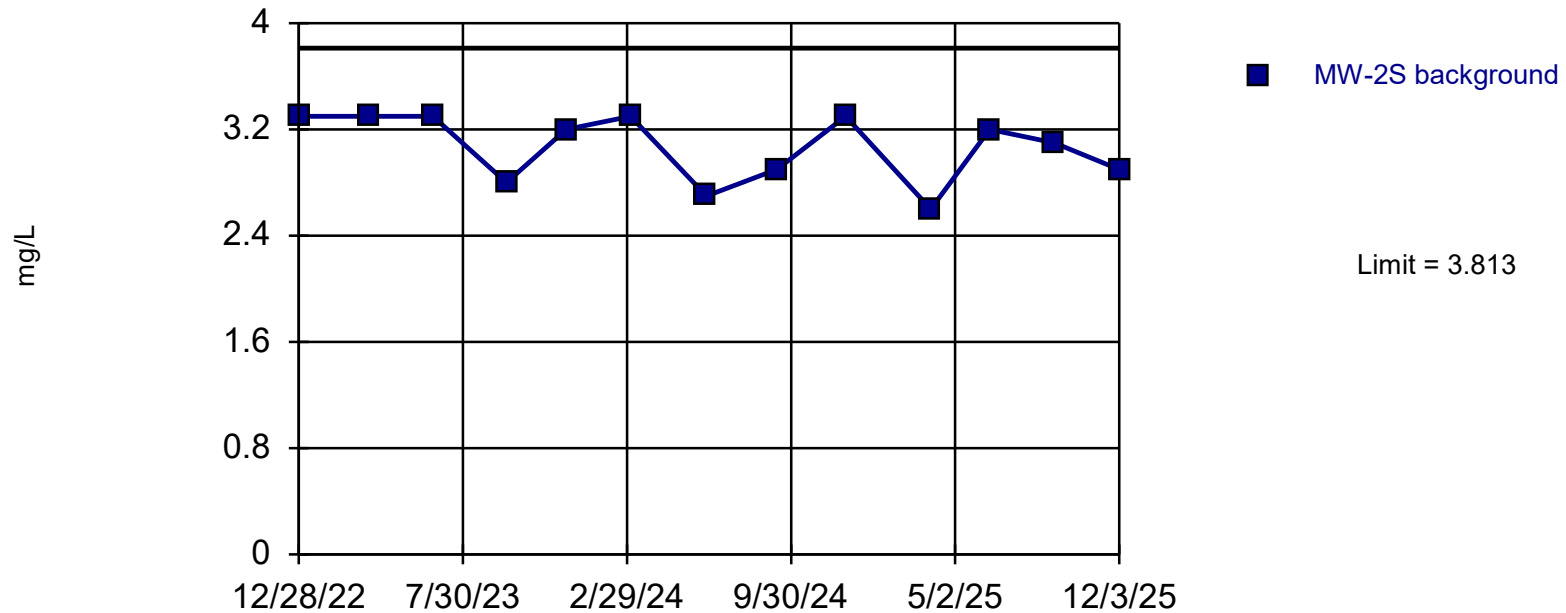


Non-parametric test used after natural log transformation resulted in a parametric limit of 57.47, which exceeds 10 times the highest background value (user-adjustable cutoff). Limit is highest of 9 background values. 44.44% NDs. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Nitrate Analysis Run 3/30/2026 5:04 PM View: 2026-2027 UPL & CC Nitrate
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-2S

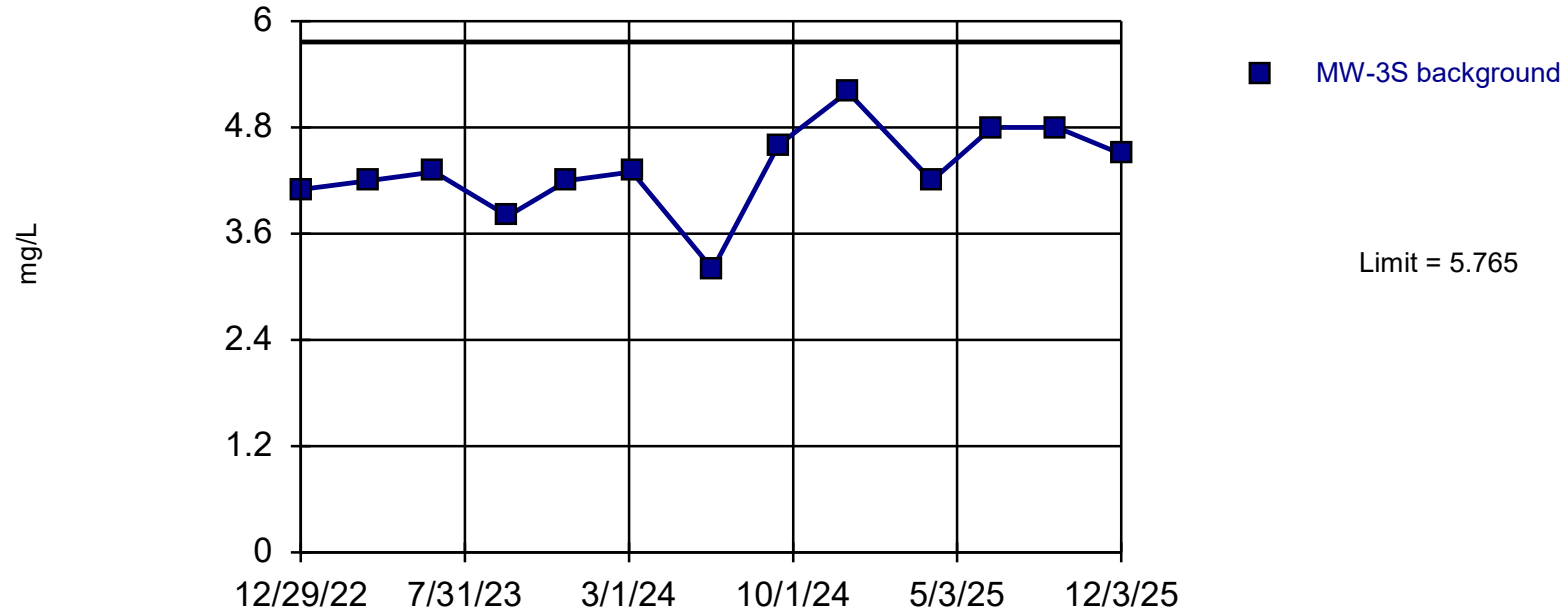


Background Data Summary: Mean=3.069, Std. Dev.=0.2562, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8388, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-3S

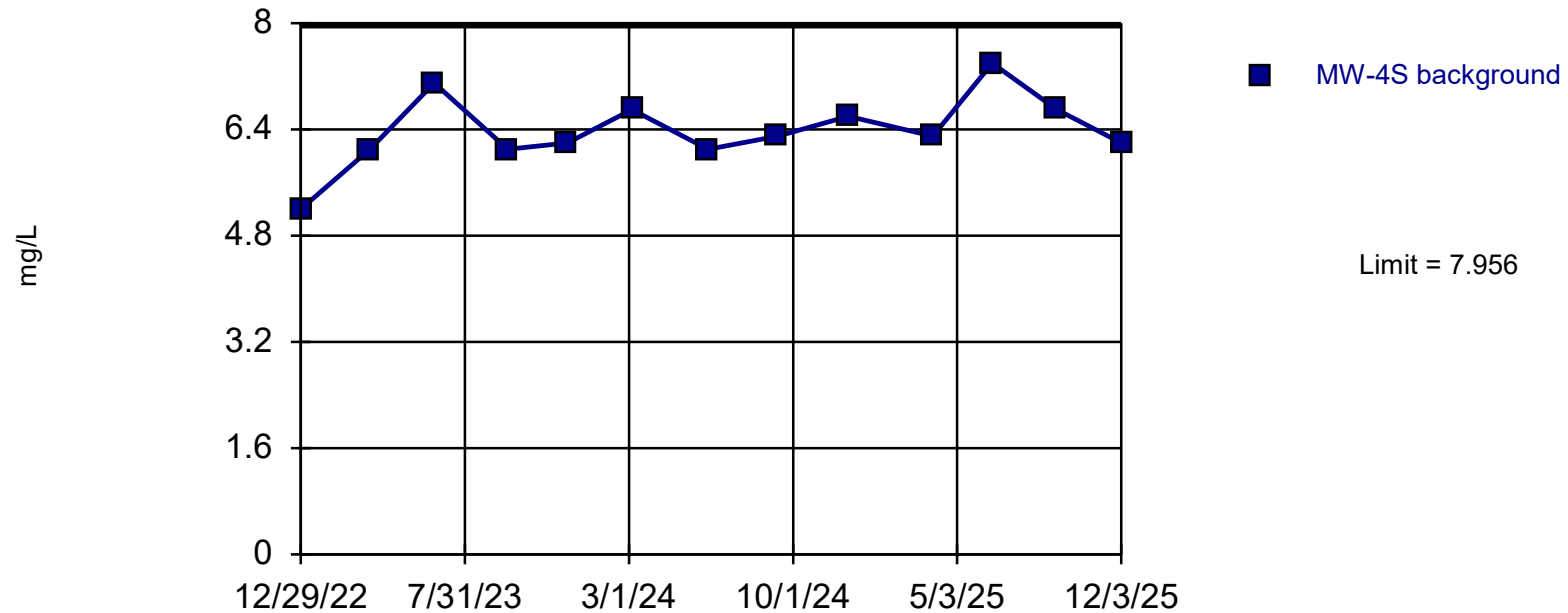


Background Data Summary: Mean=4.323, Std. Dev.=0.4969, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9523, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-4S

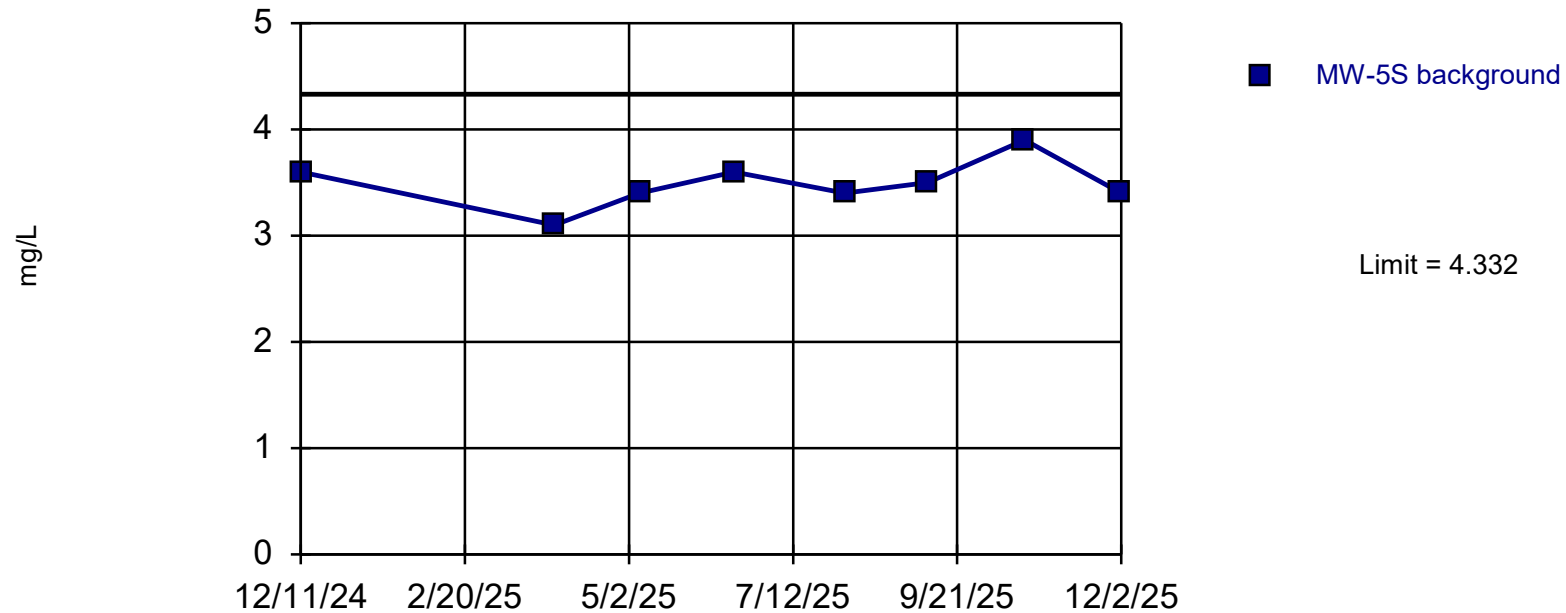


Background Data Summary: Mean=6.385, Std. Dev.=0.5414, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9294, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-5S

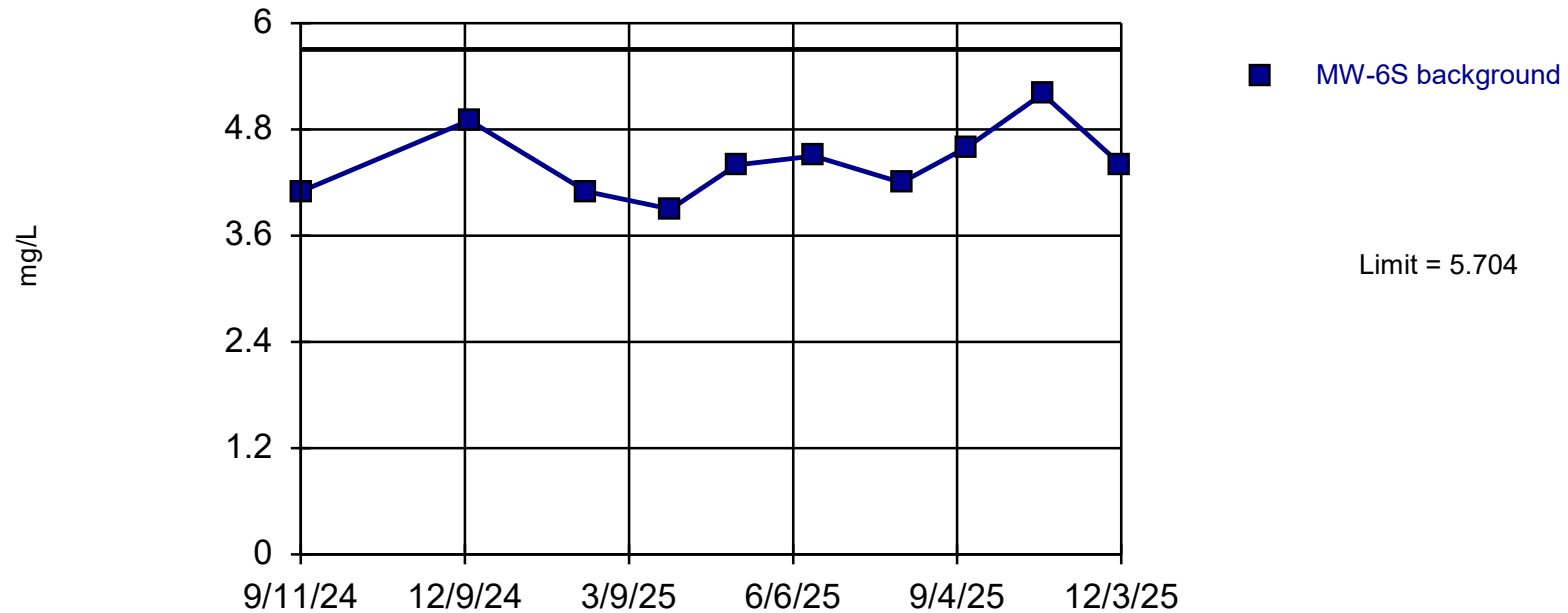


Background Data Summary: Mean=3.488, Std. Dev.=0.2295, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9373, critical = 0.749. Kappa = 3.68 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-6S

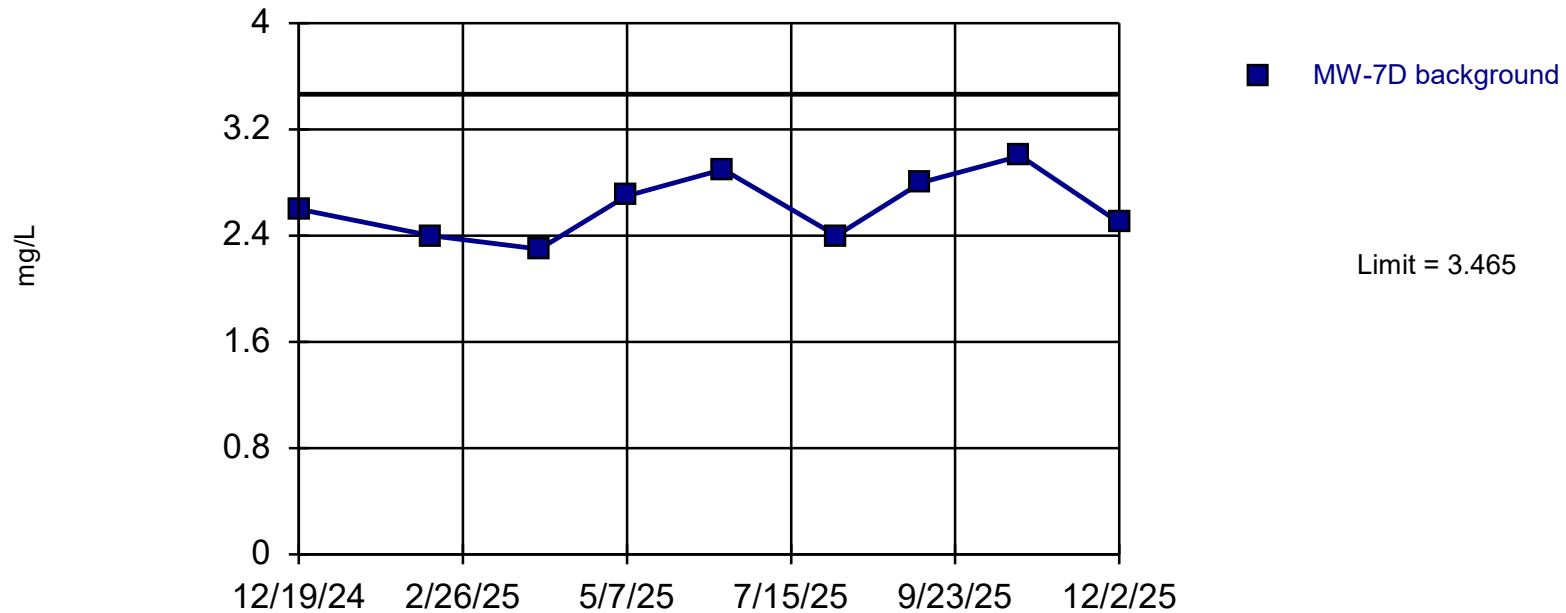


Background Data Summary: Mean=4.43, Std. Dev.=0.3945, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9491, critical = 0.781. Kappa = 3.23 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-7D

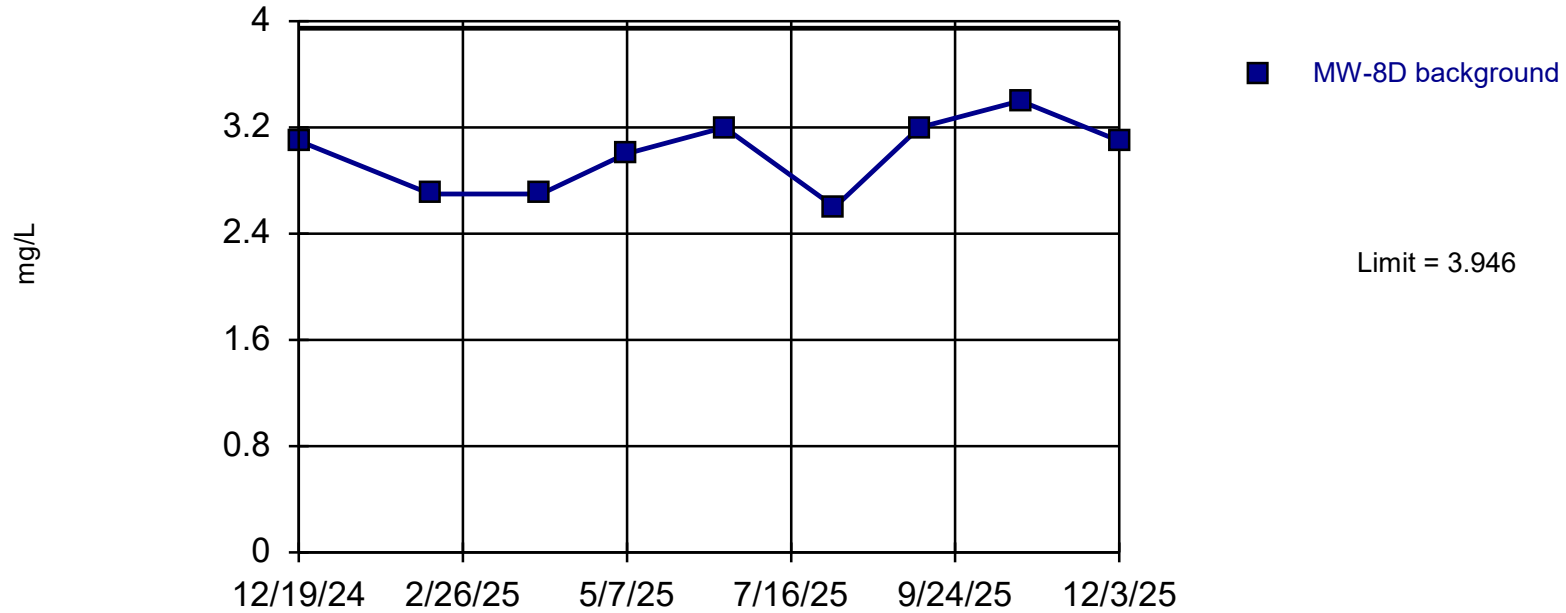


Background Data Summary: Mean=2.622, Std. Dev.=0.2438, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9506, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-8D

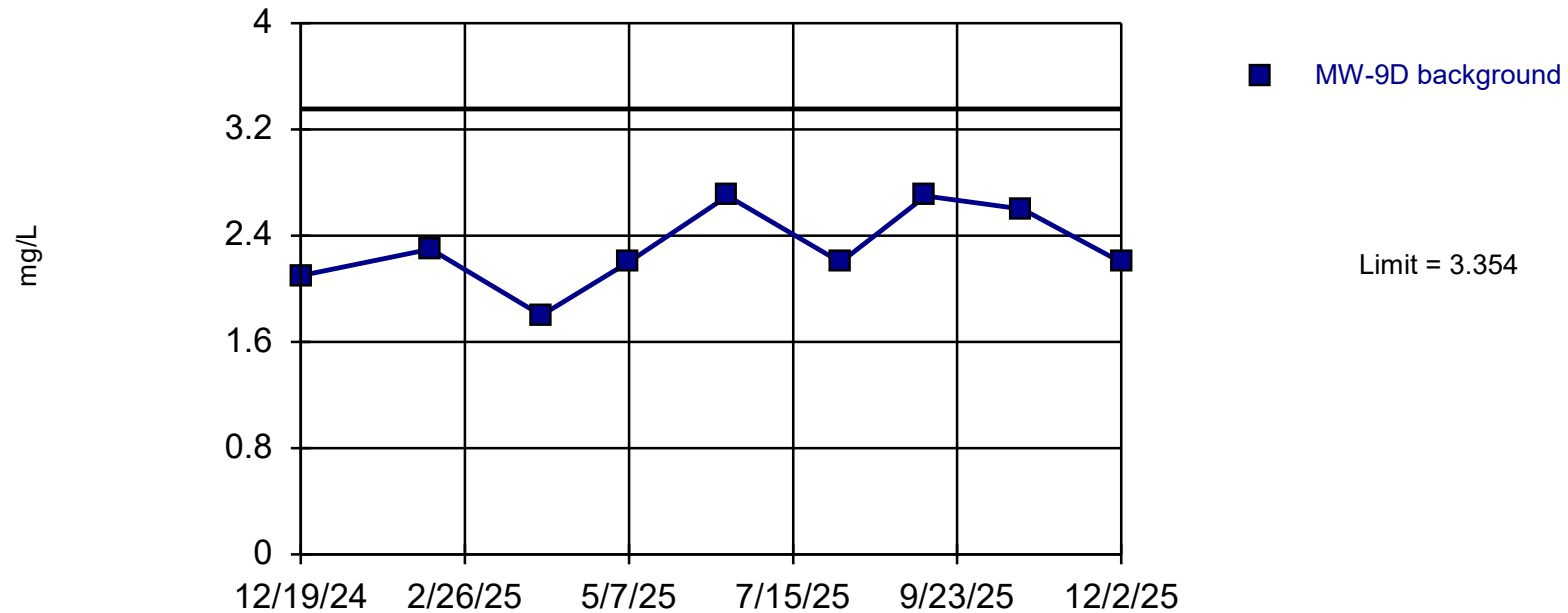


Background Data Summary: Mean=3, Std. Dev.=0.2739, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9164, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-9D

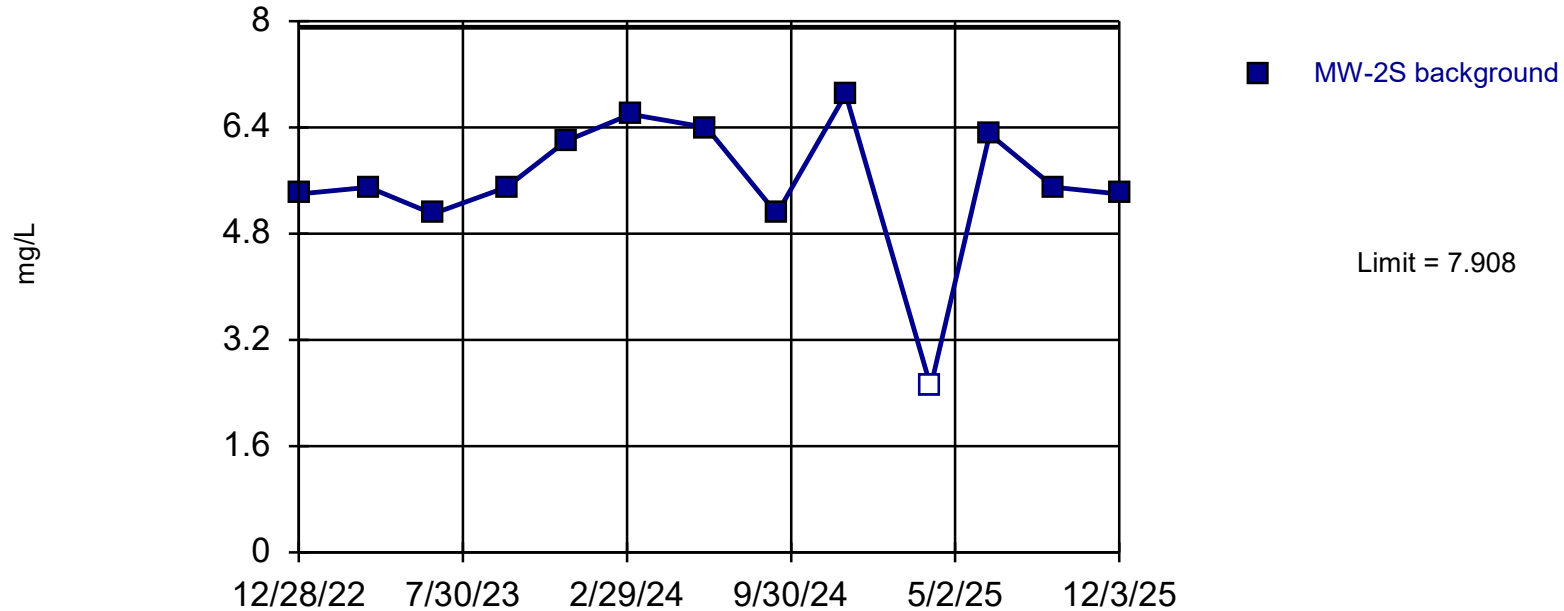


Background Data Summary: Mean=2.311, Std. Dev.=0.3018, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.907, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-2S

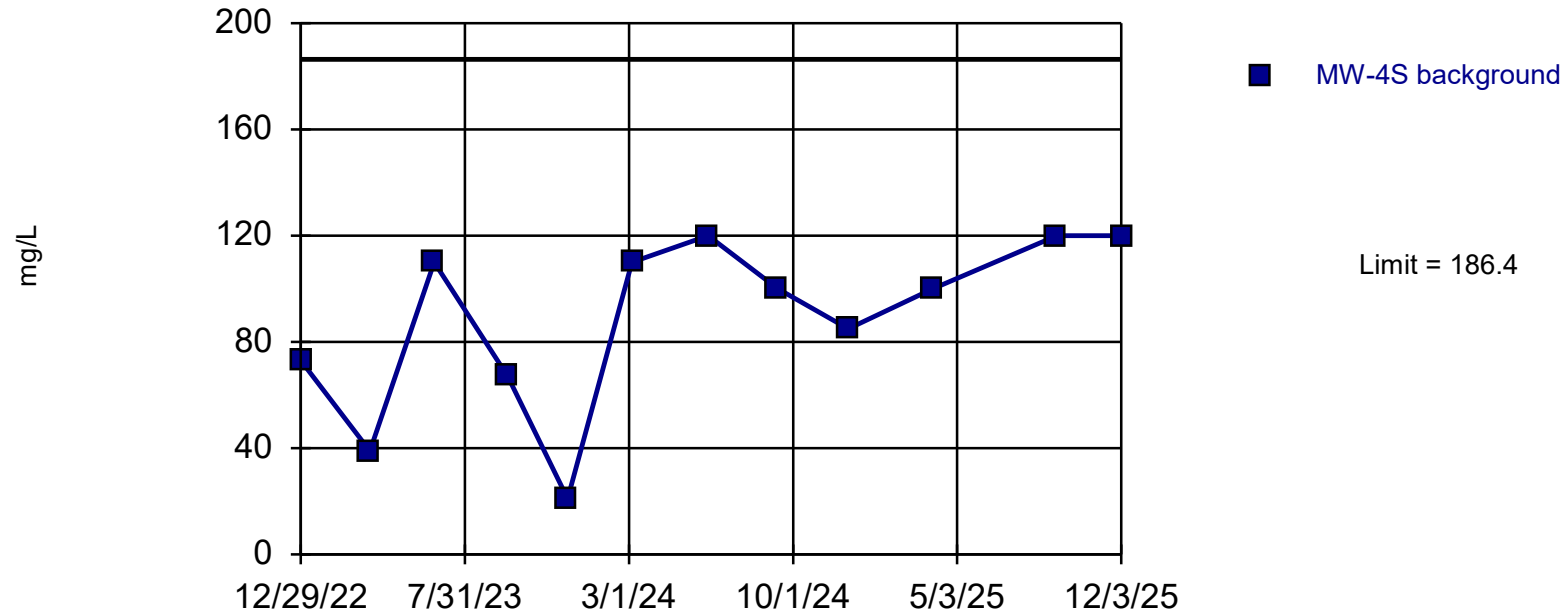


Background Data Summary (based on square transformation): Mean=32.12, Std. Dev.=10.48, n=13, 7.692% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.899, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Sulfate Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-4S



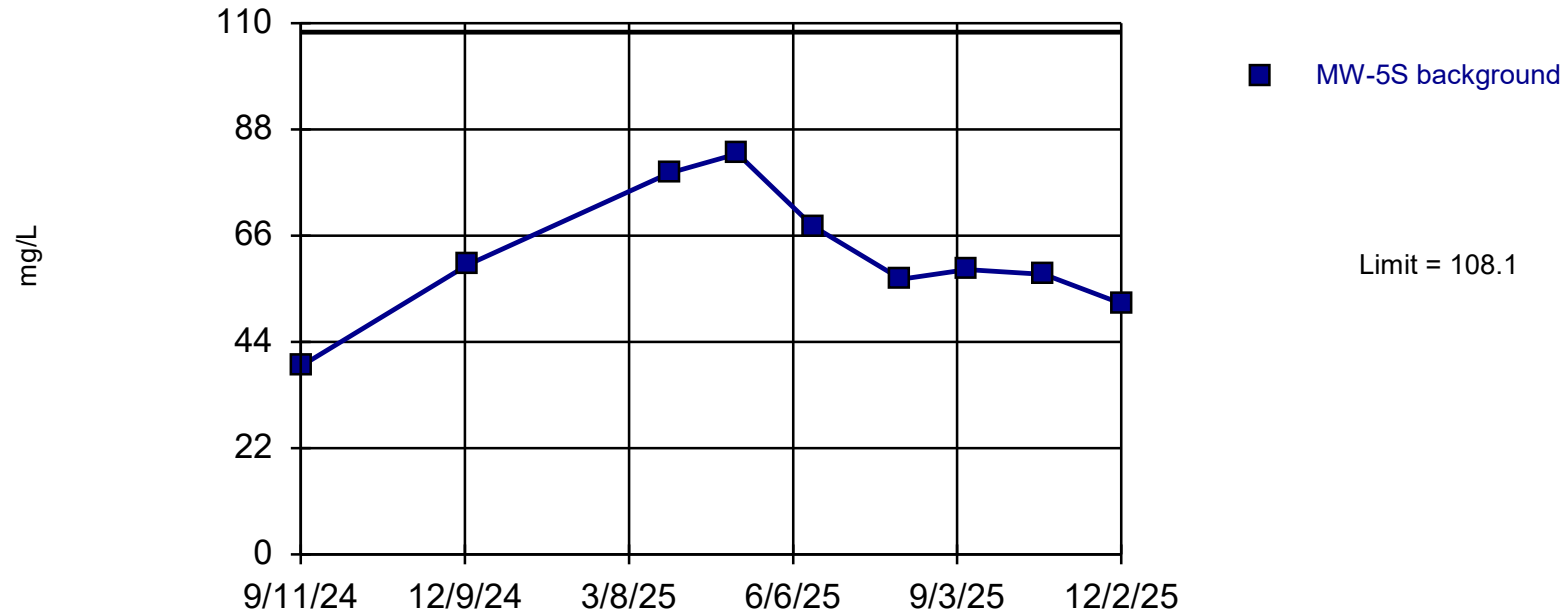
Background Data Summary: Mean=88.75, Std. Dev.=32.87, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.871, critical = 0.805. Kappa = 2.97 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Sulfate Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-5S

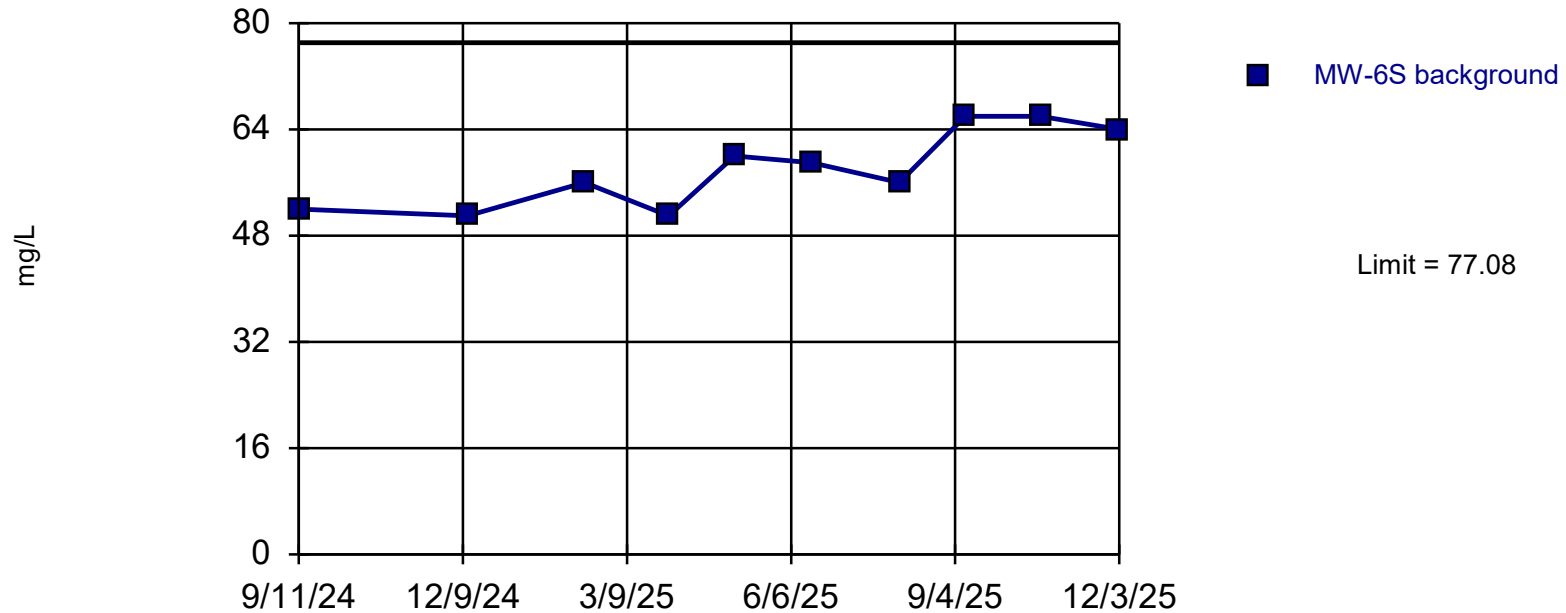


Background Data Summary: Mean=61.67, Std. Dev.=13.45, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9469, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Sulfate Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-6S

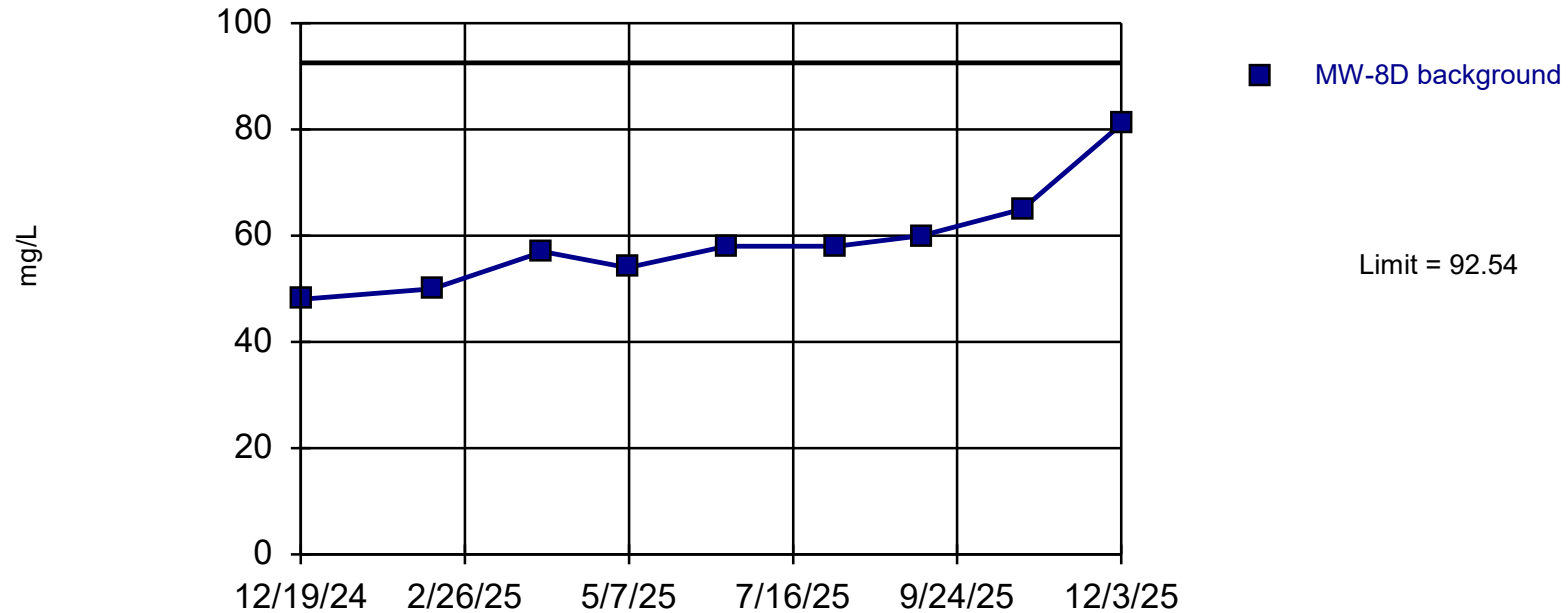


Background Data Summary: Mean=58.1, Std. Dev.=5.877, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8996, critical = 0.781. Kappa = 3.23 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Sulfate Analysis Run 3/30/2026 5:19 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-8D

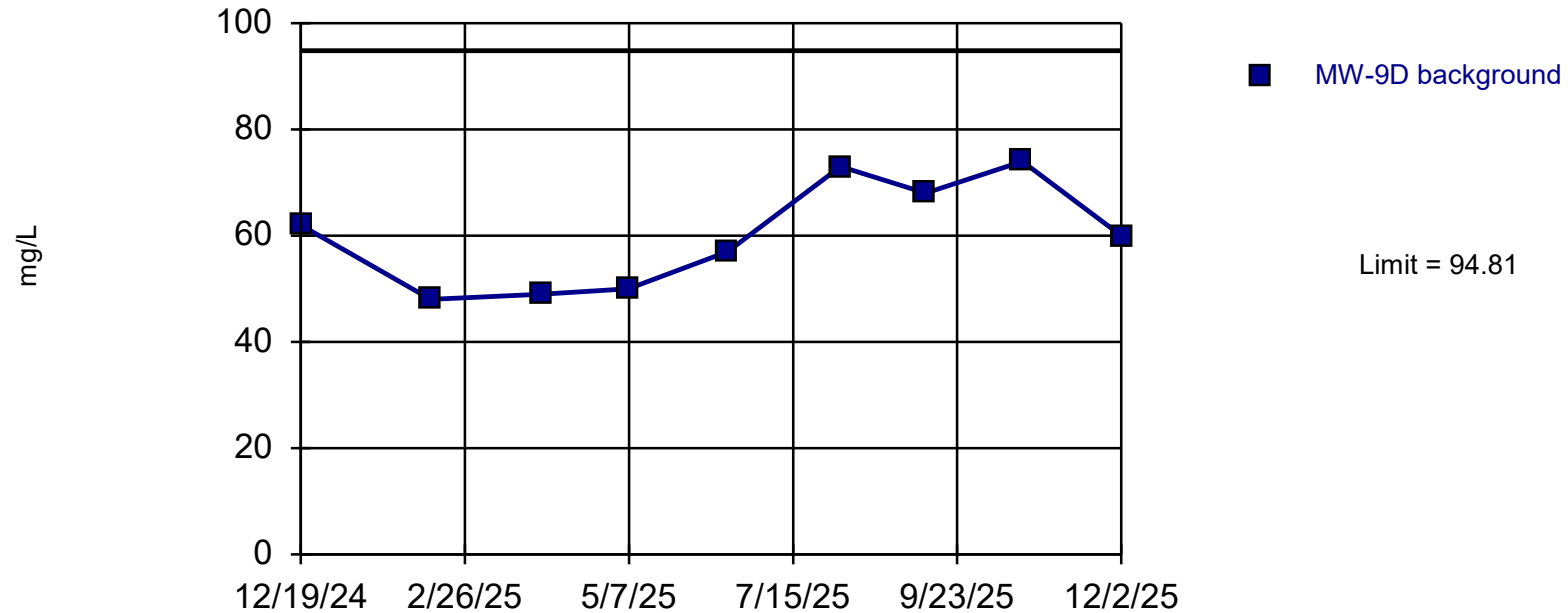


Background Data Summary: Mean=59, Std. Dev.=9.708, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8676, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Sulfate Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-9D

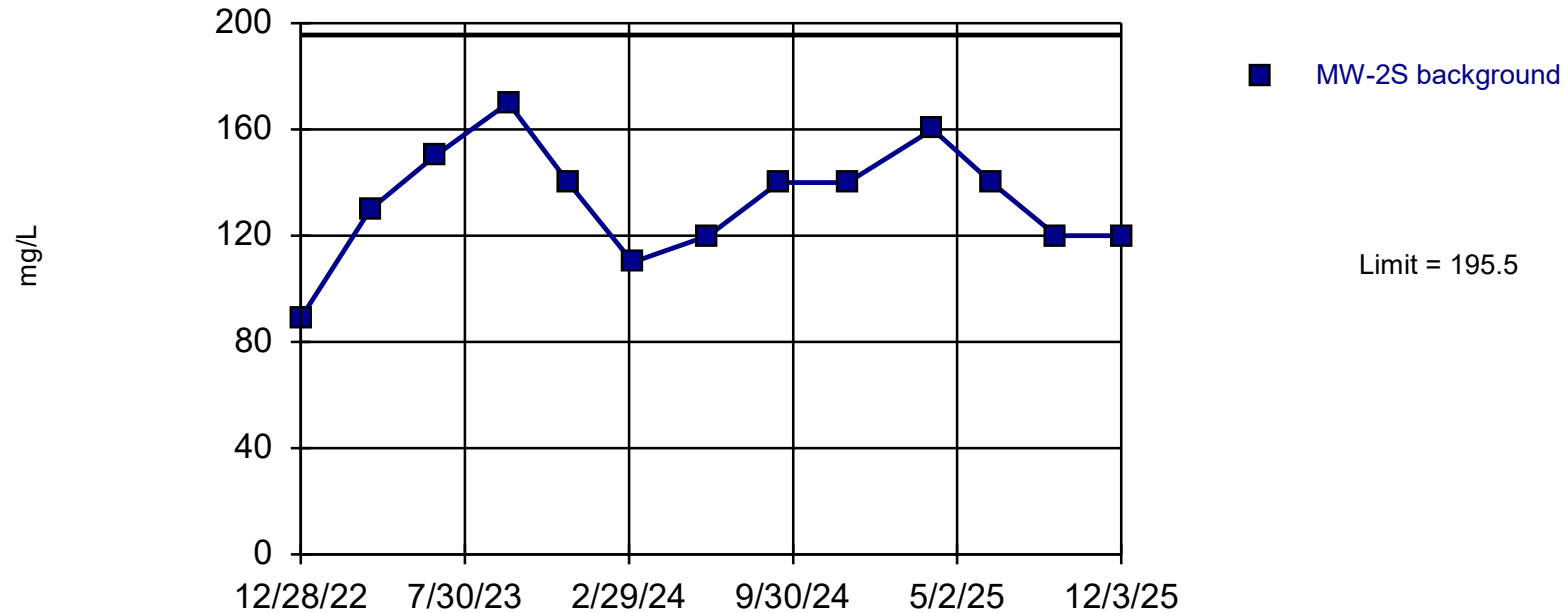


Background Data Summary: Mean=60.11, Std. Dev.=10.04, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9118, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Sulfate Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-2S



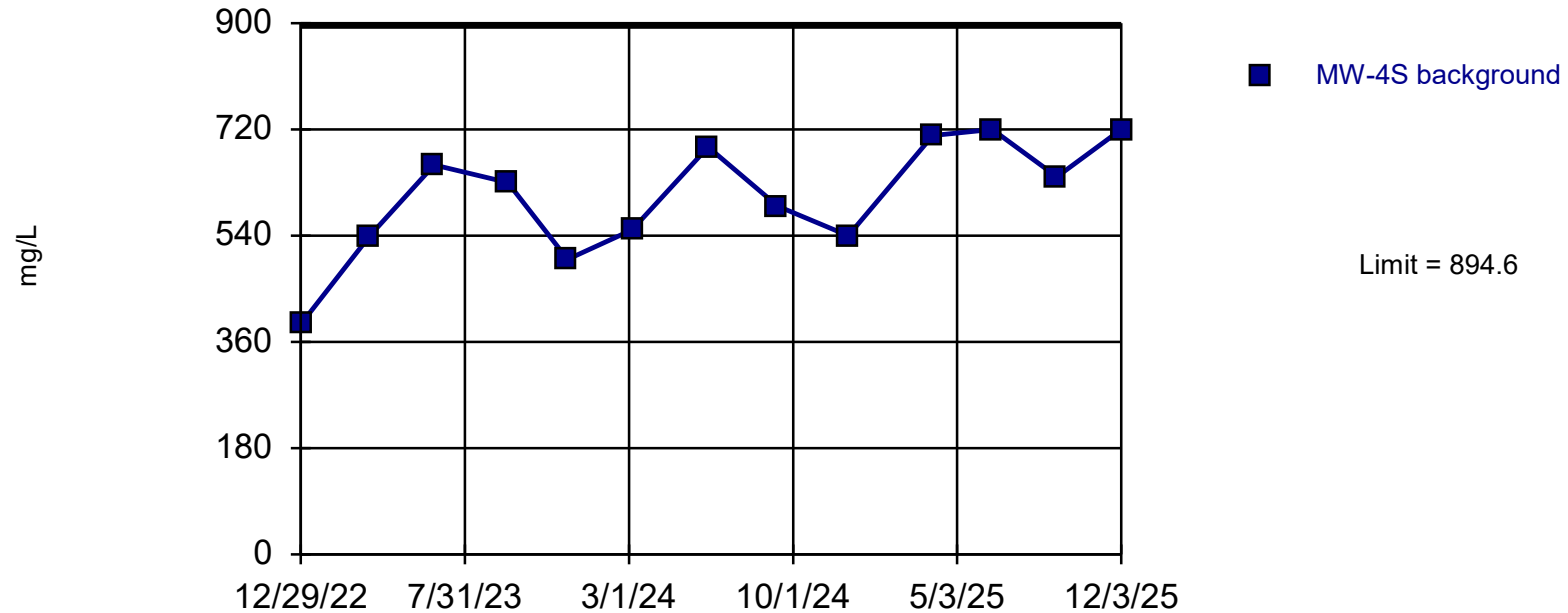
Background Data Summary: Mean=133, Std. Dev.=21.53, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9688, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: TDS Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-4S

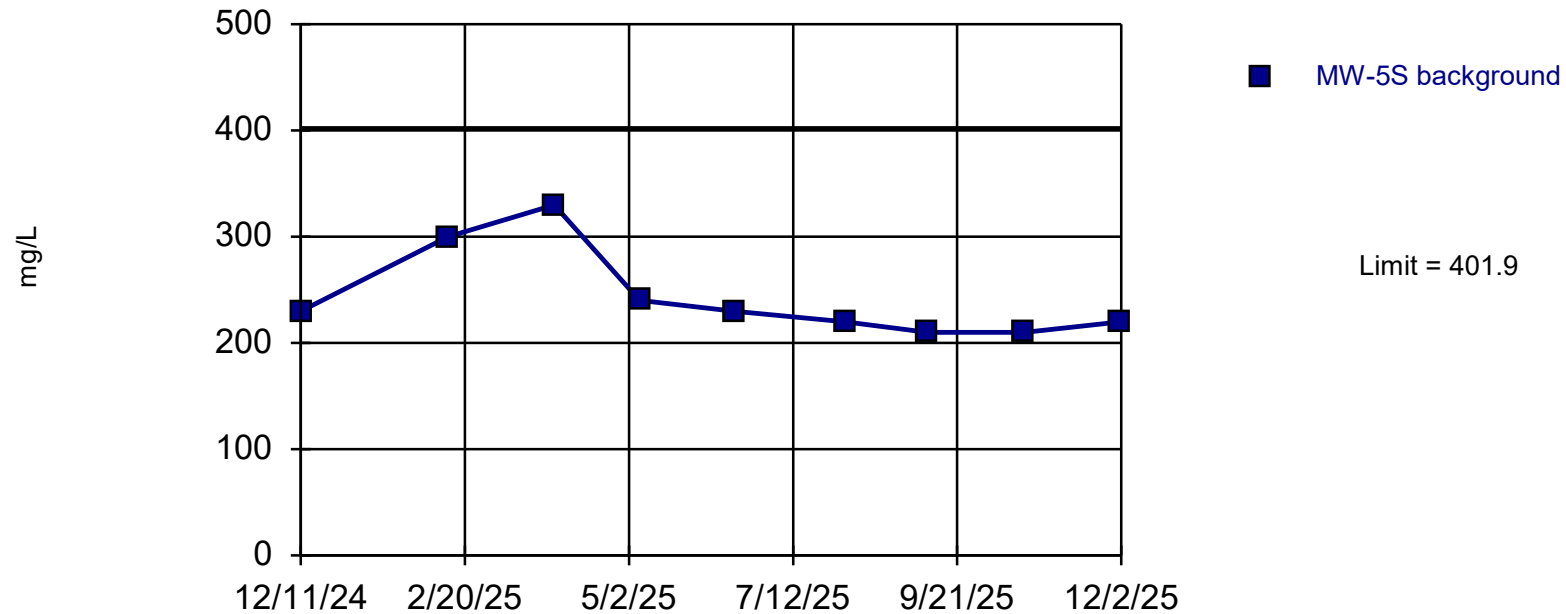


Background Data Summary: Mean=606.2, Std. Dev.=99.38, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9267, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: TDS Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-5S



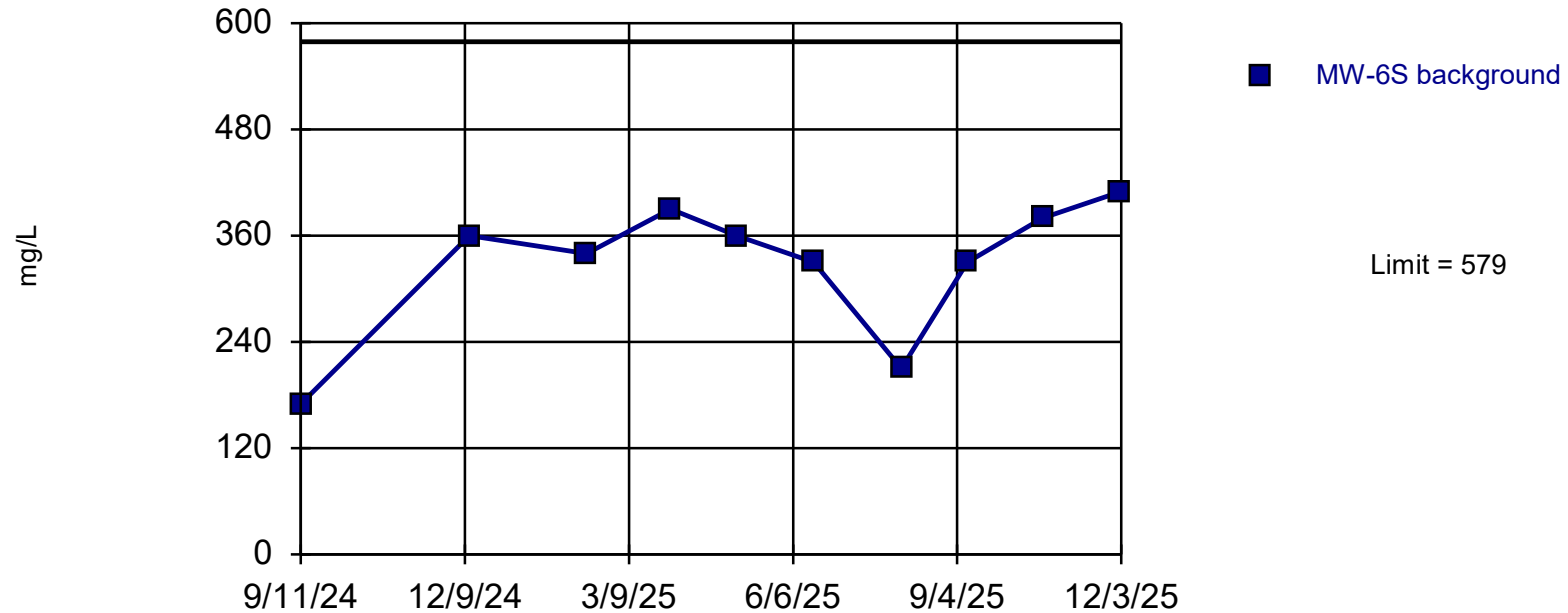
Background Data Summary (based on square root transformation): Mean=15.55, Std. Dev.=1.301, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7764, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: TDS Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-6S



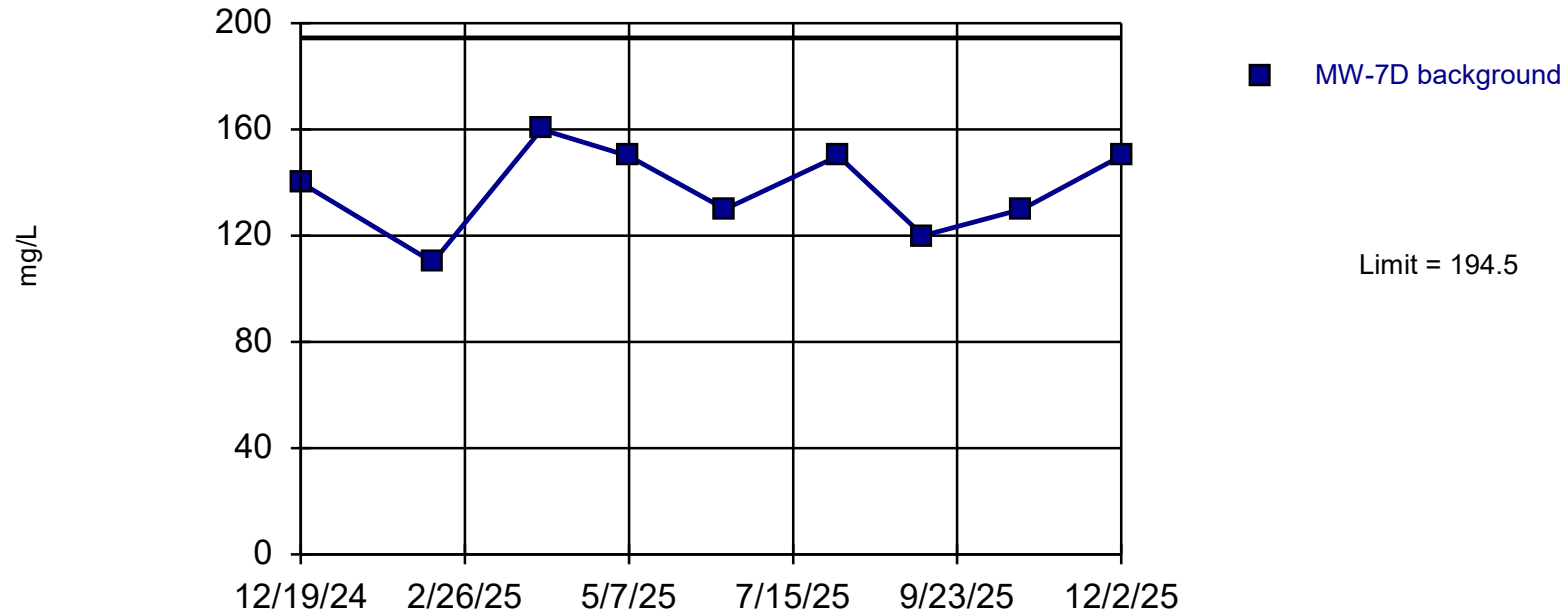
Background Data Summary: Mean=328, Std. Dev.=77.72, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8279, critical = 0.781. Kappa = 3.23 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: TDS Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-7D

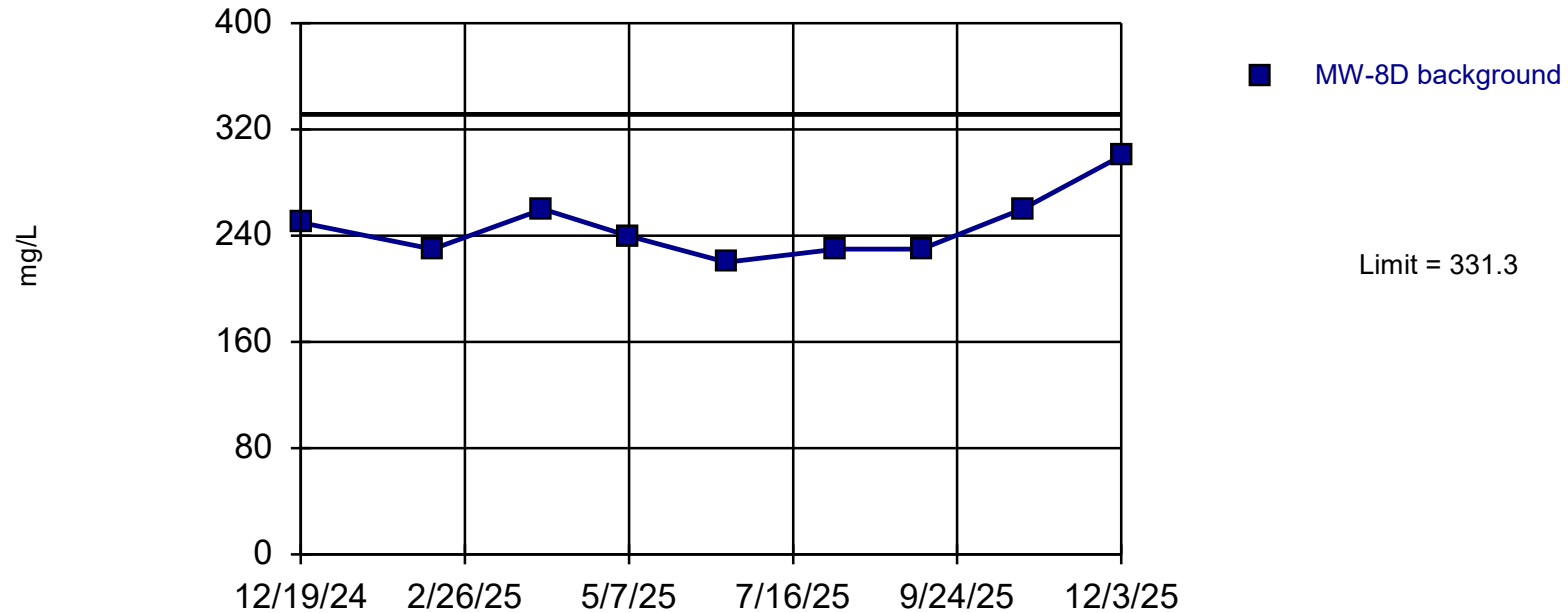


Background Data Summary: Mean=137.8, Std. Dev.=16.41, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9402, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: TDS Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-8D



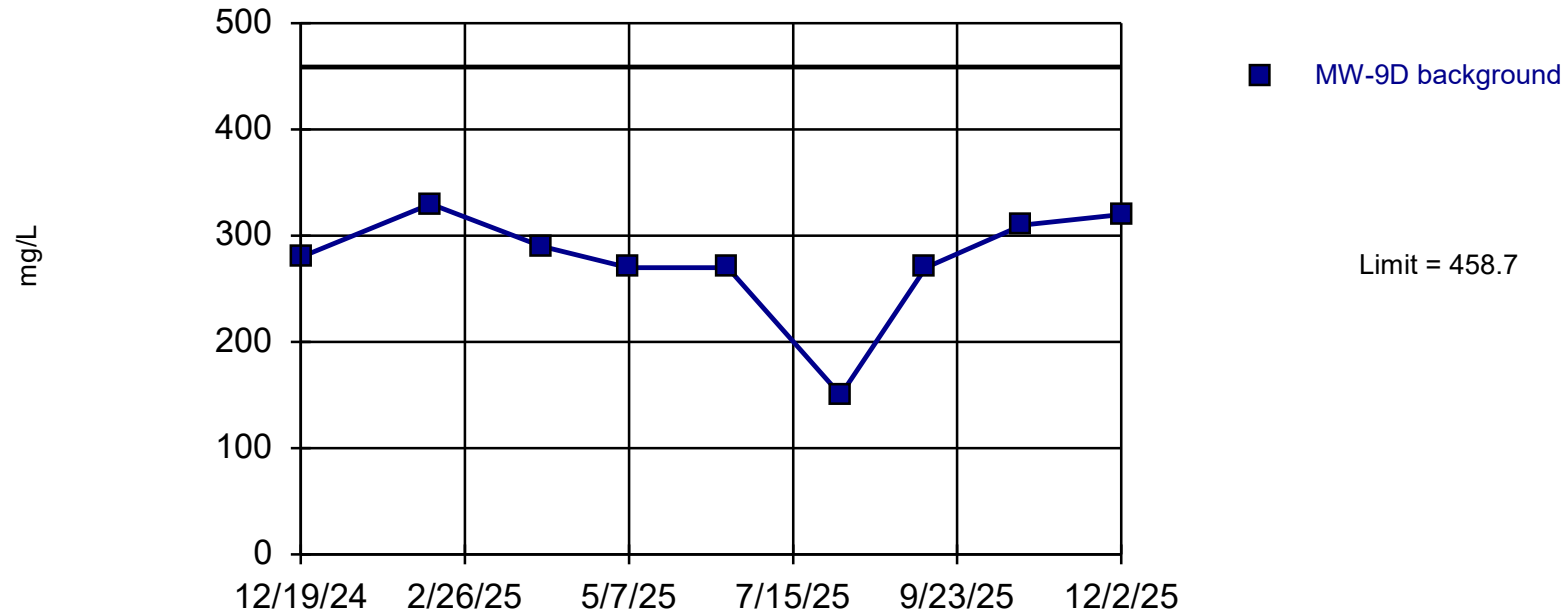
Background Data Summary: Mean=246.7, Std. Dev.=24.49, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.871, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: TDS Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-9D

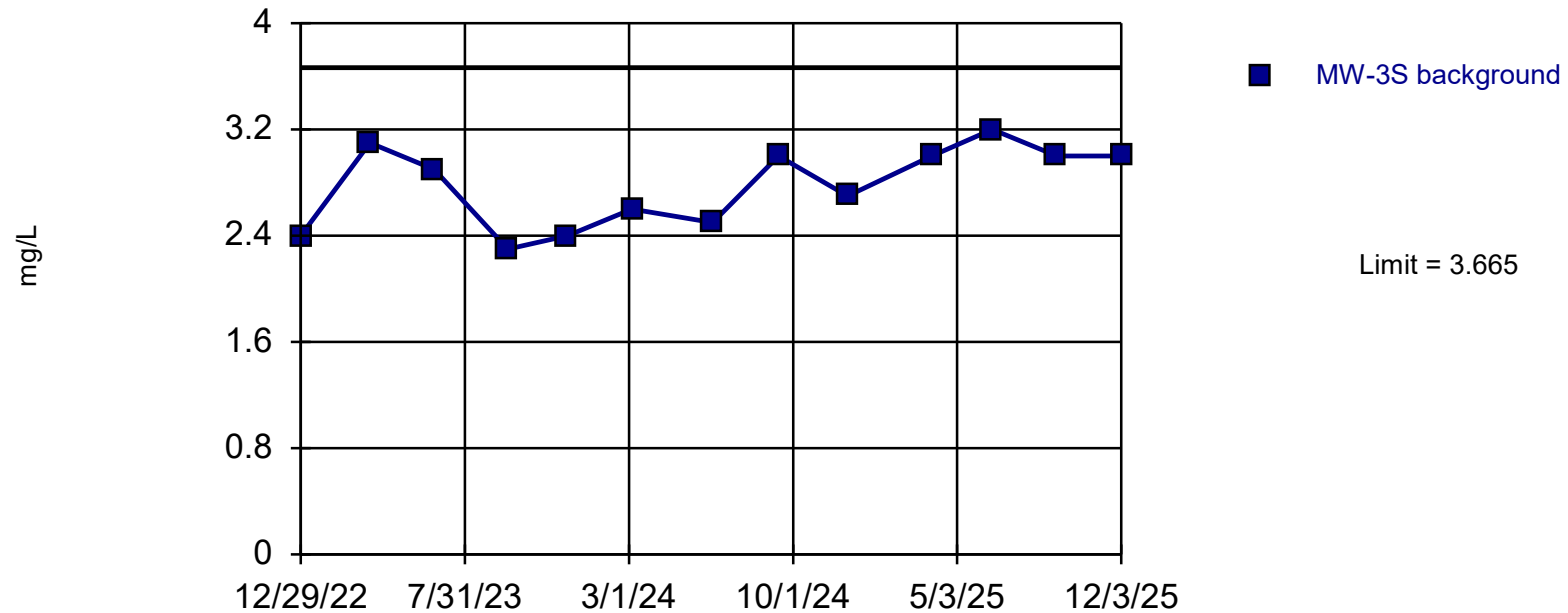


Background Data Summary: Mean=276.7, Std. Dev.=52.68, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7849, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: TDS Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-3S

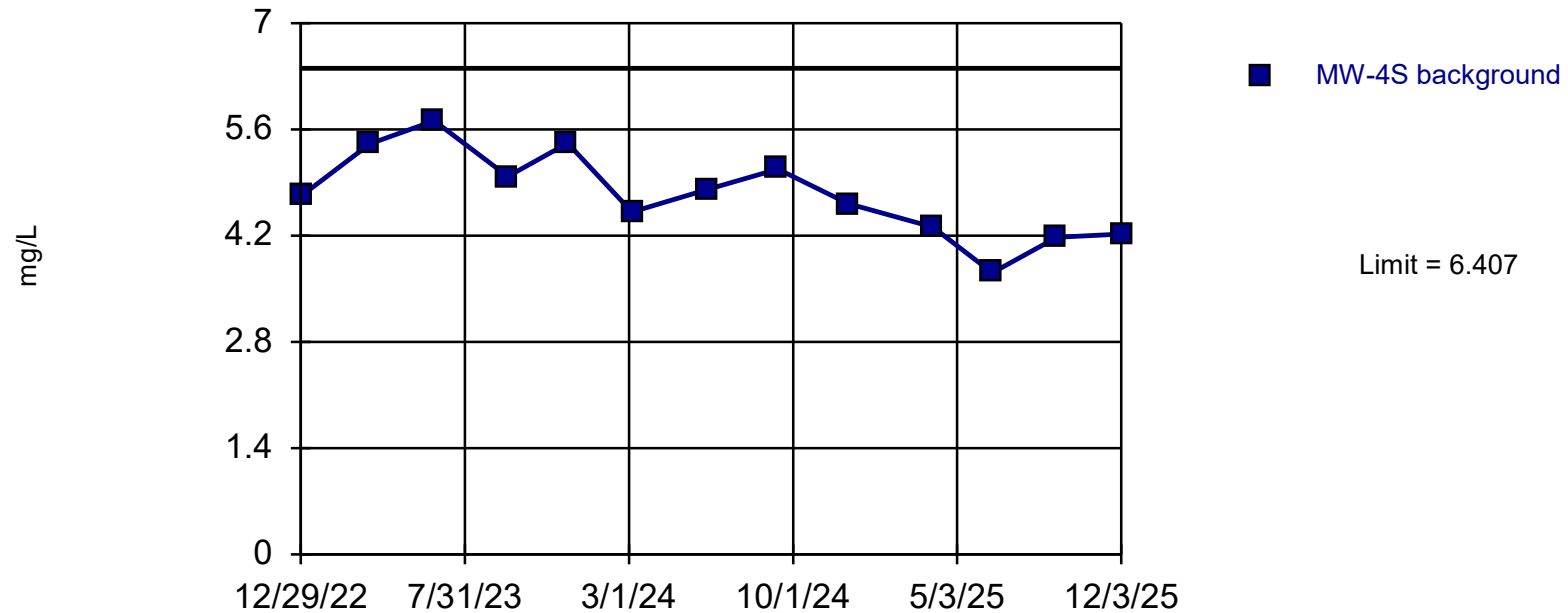


Background Data Summary: Mean=2.777, Std. Dev.=0.3059, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8998, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Total Organic Carbon Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-4S

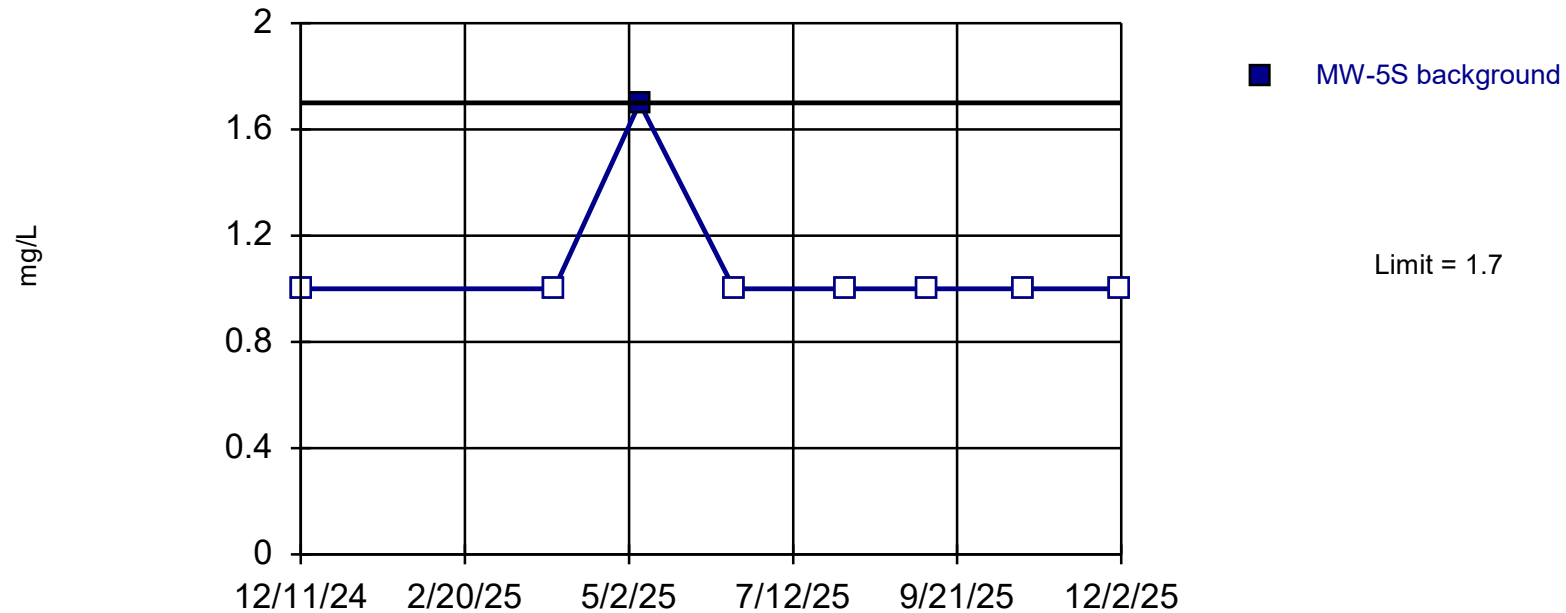


Background Data Summary: Mean=4.746, Std. Dev.=0.5721, n=13. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9827, critical = 0.814. Kappa = 2.903 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Total Organic Carbon Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

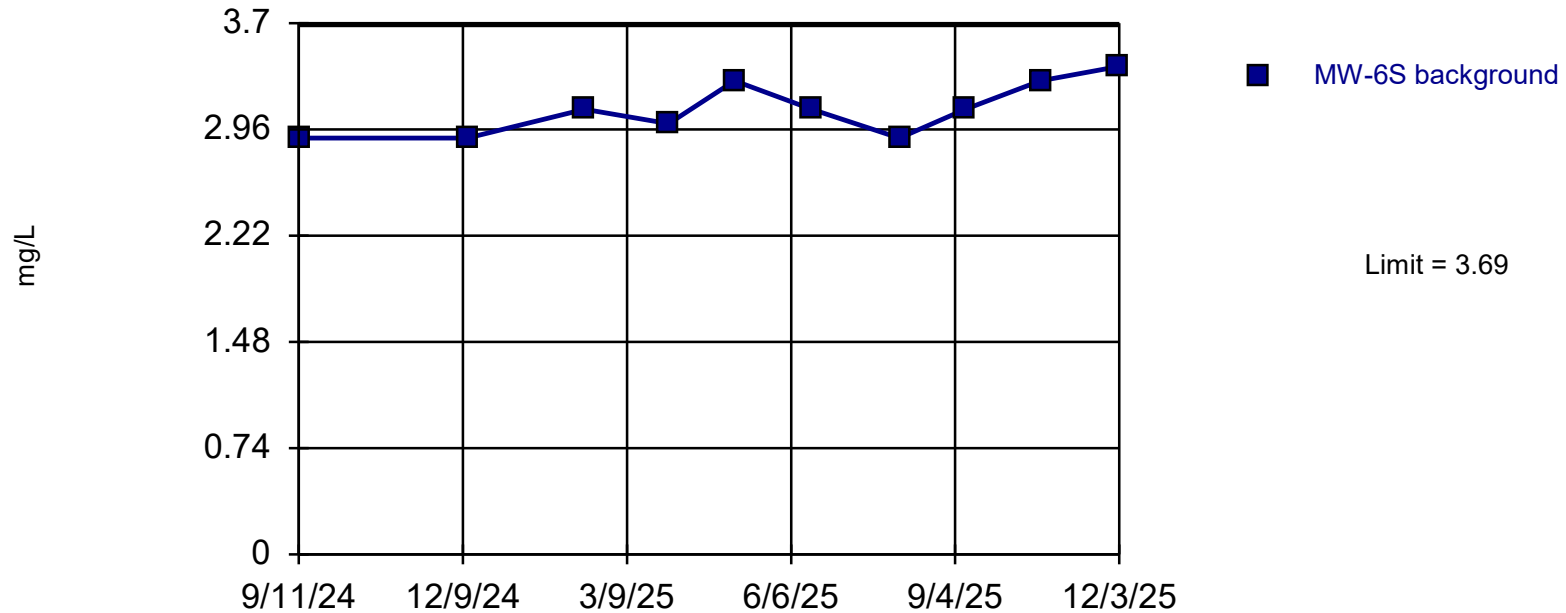
Intrawell Non-parametric, MW-5S



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.07802. Individual comparison alpha = 0.0201 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Total Organic Carbon Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit Intrawell Parametric, MW-6S

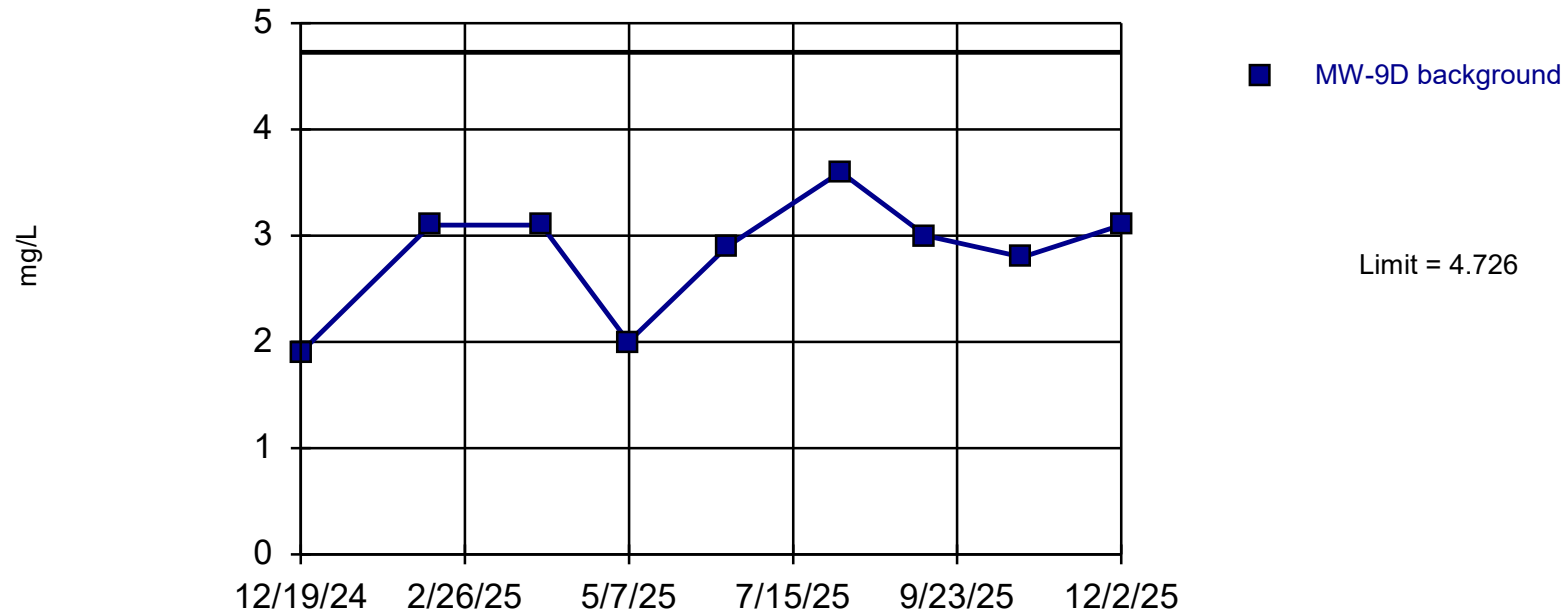


Background Data Summary: Mean=3.1, Std. Dev.=0.1826, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8891, critical = 0.781. Kappa = 3.23 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

Constituent: Total Organic Carbon Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Parametric, MW-9D



Background Data Summary: Mean=2.833, Std. Dev.=0.5477, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8592, critical = 0.764. Kappa = 3.455 (c=10, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0003292. Assumes 1 future value.

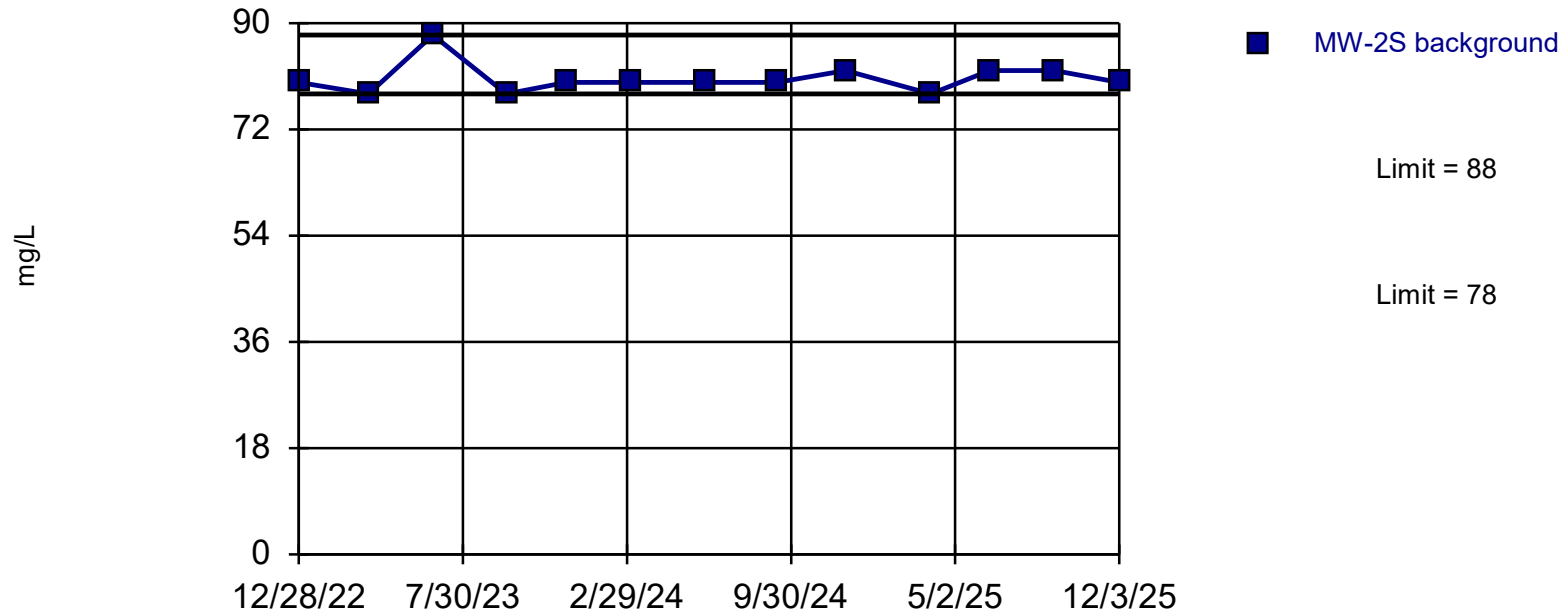
Constituent: Total Organic Carbon Analysis Run 3/30/2026 5:20 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Attachment G

Control Charts for 2026-2027

Prediction Limit

Intrawell Non-parametric, MW-2S

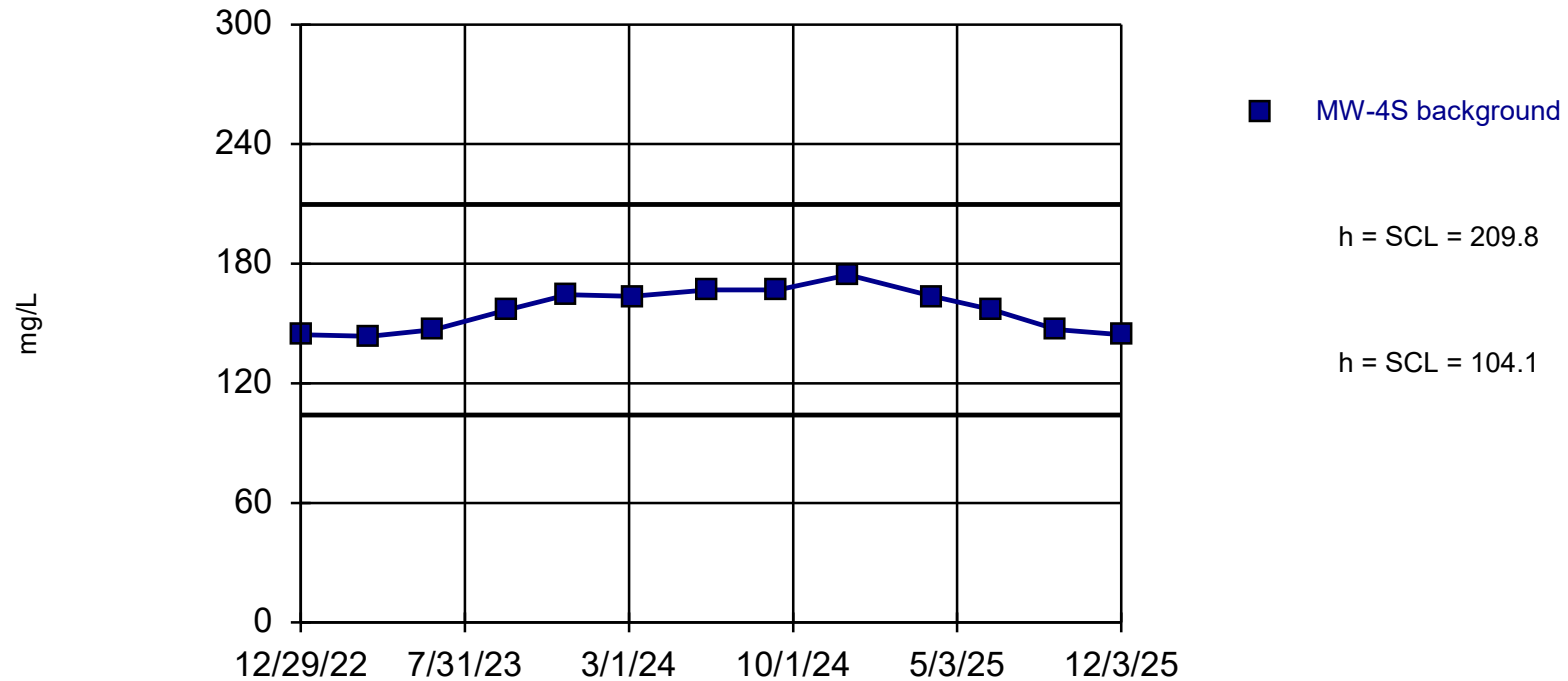


Non-parametric test used in lieu of control chart because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 13 background values. Well-constituent pair annual alpha = 0.07379. Individual comparison alpha = 0.01871 (1 of 2). Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:23 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-4S

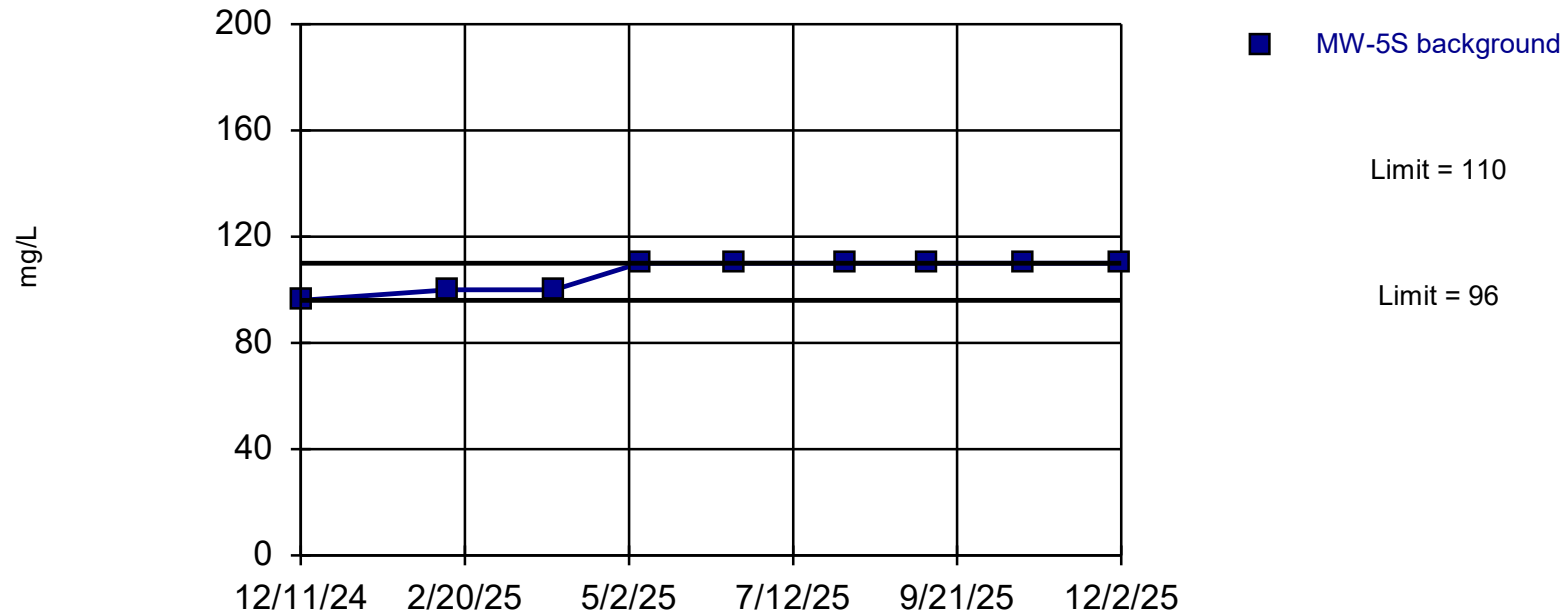


Background Data Summary: Mean=156.9, Std. Dev.=10.57, n=13. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8928, critical = 0.866. Report alpha = 0.000244 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:23 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-5S

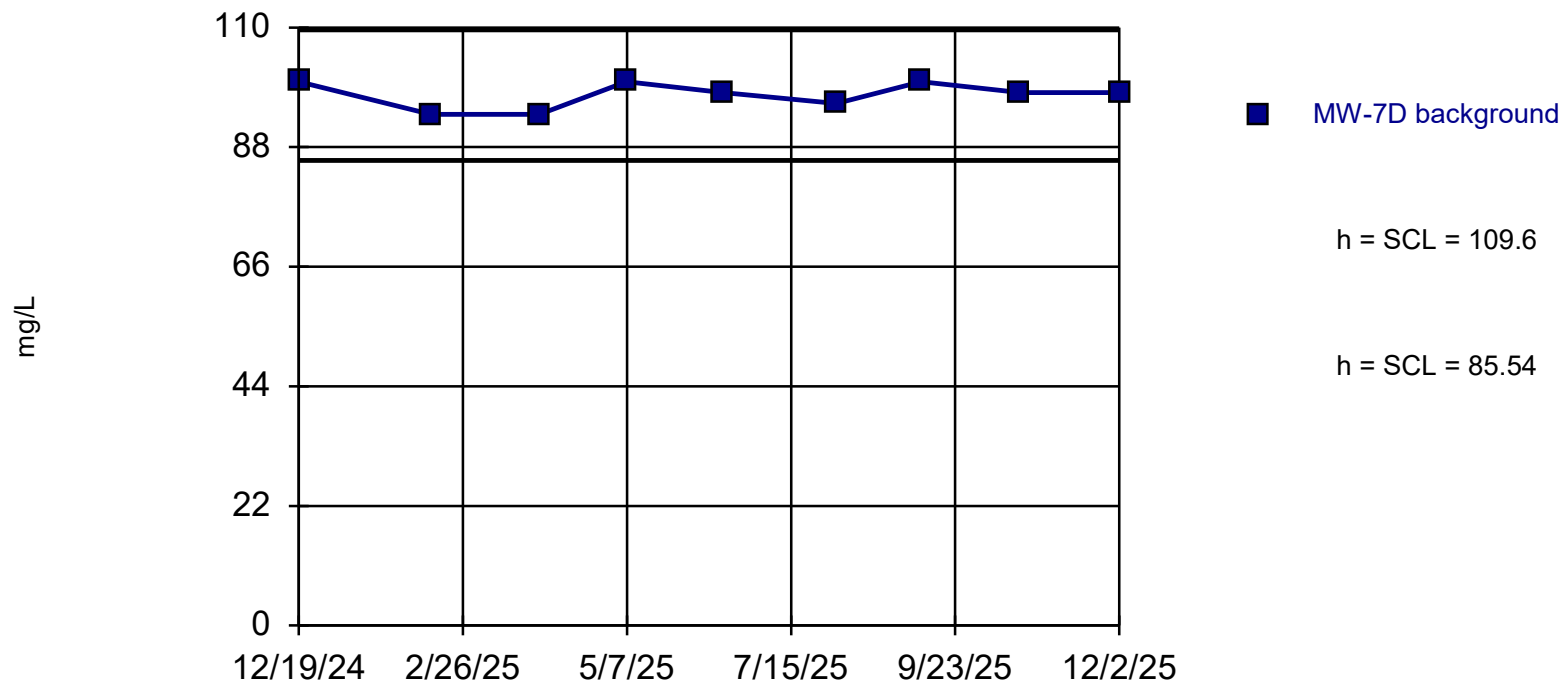


Non-parametric test used in lieu of control chart because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.1331. Individual comparison alpha = 0.03414 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:23 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-7D



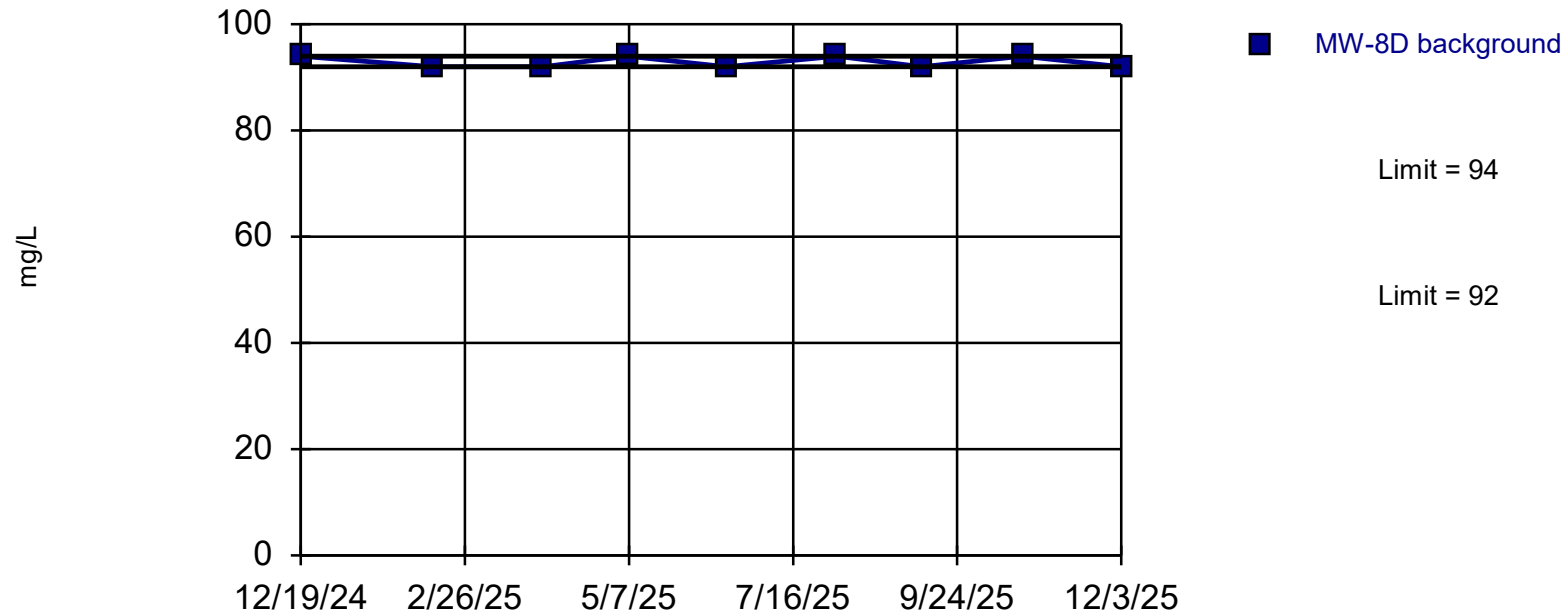
Background Data Summary: Mean=97.56, Std. Dev.=2.404, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8504, critical = 0.829. Report alpha = 0.000752 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:23 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-8D

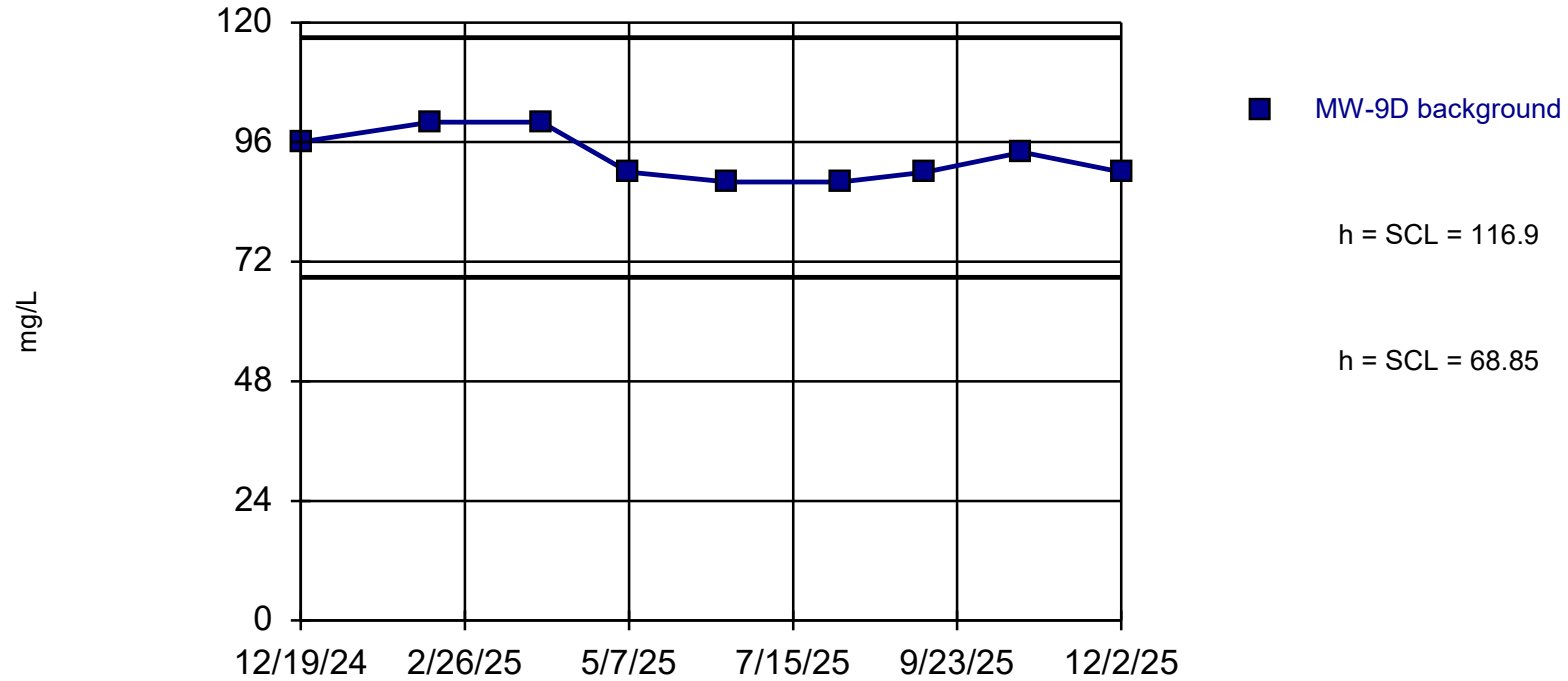


Non-parametric test used in lieu of control chart because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.1331. Individual comparison alpha = 0.03414 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:23 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-9D

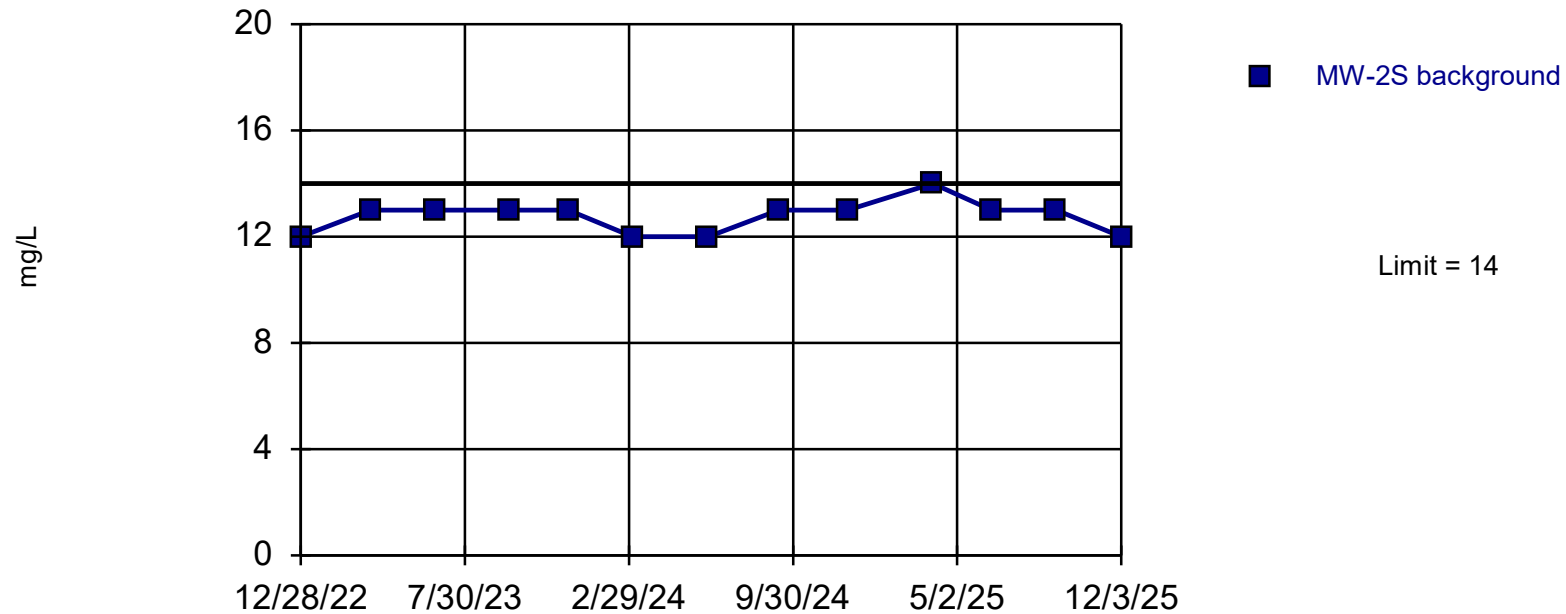


Background Data Summary: Mean=92.89, Std. Dev.=4.807, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8482, critical = 0.829. Report alpha = 0.000752 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:23 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-2S

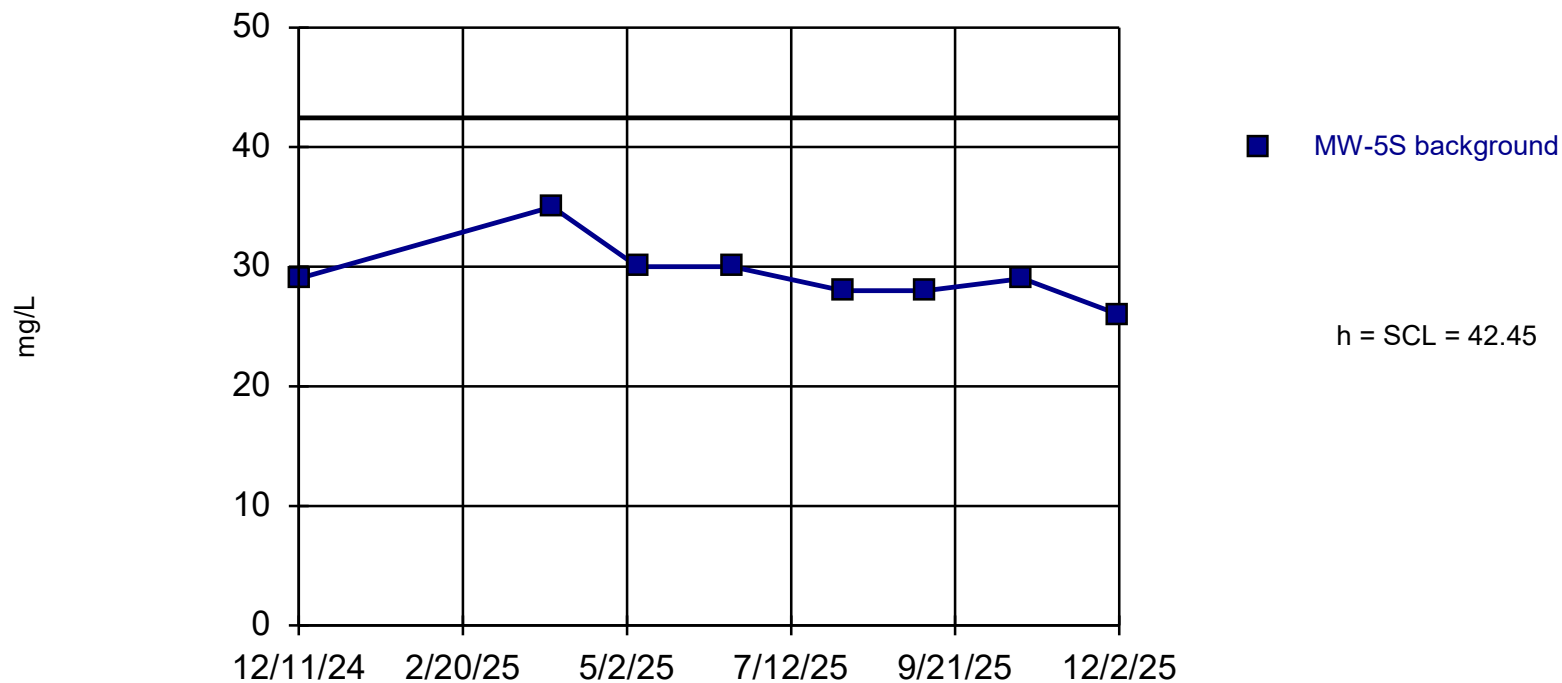


Non-parametric test used in lieu of control chart because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.03689. Individual comparison alpha = 0.009354 (1 of 2). Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:23 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

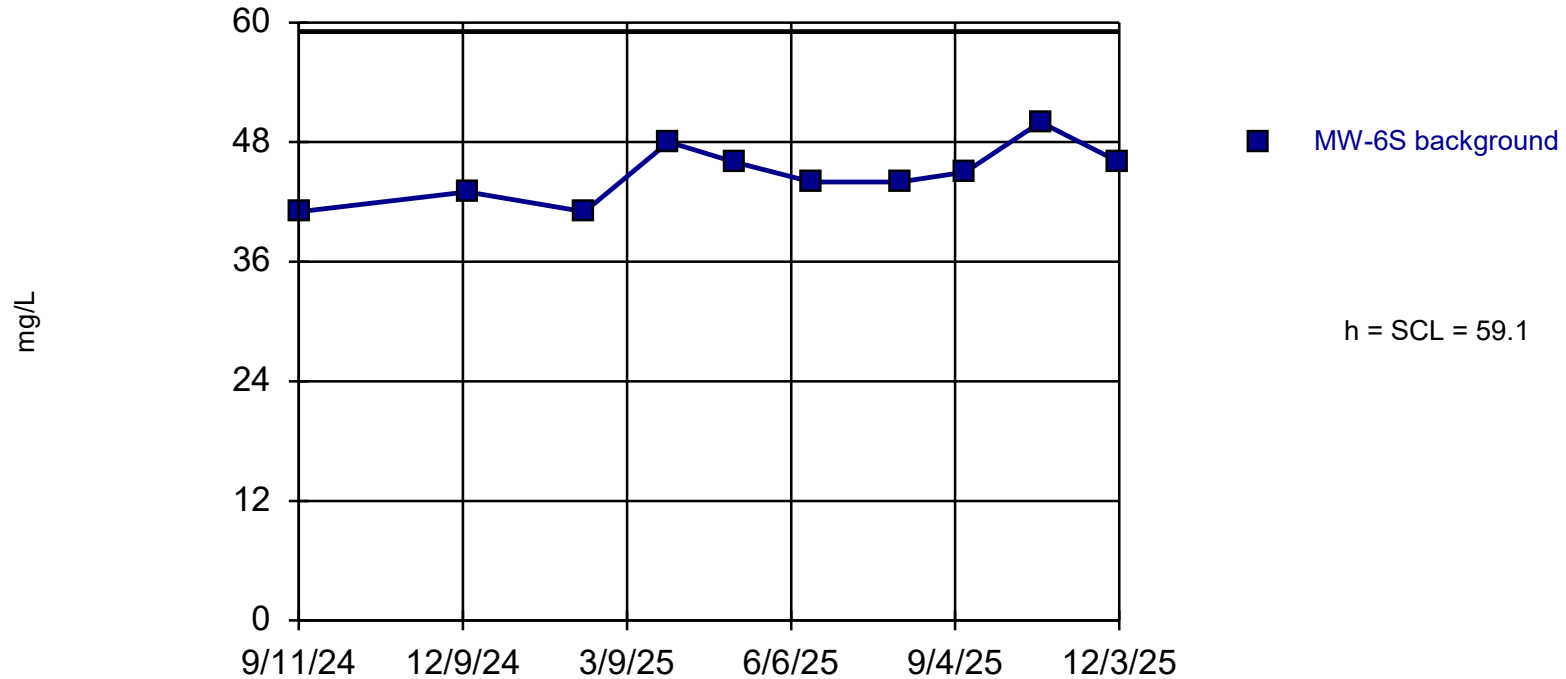
MW-5S



Background Data Summary: Mean=29.38, Std. Dev.=2.615, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8631, critical = 0.818. Report alpha = 0.00114 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Control Chart

MW-6S

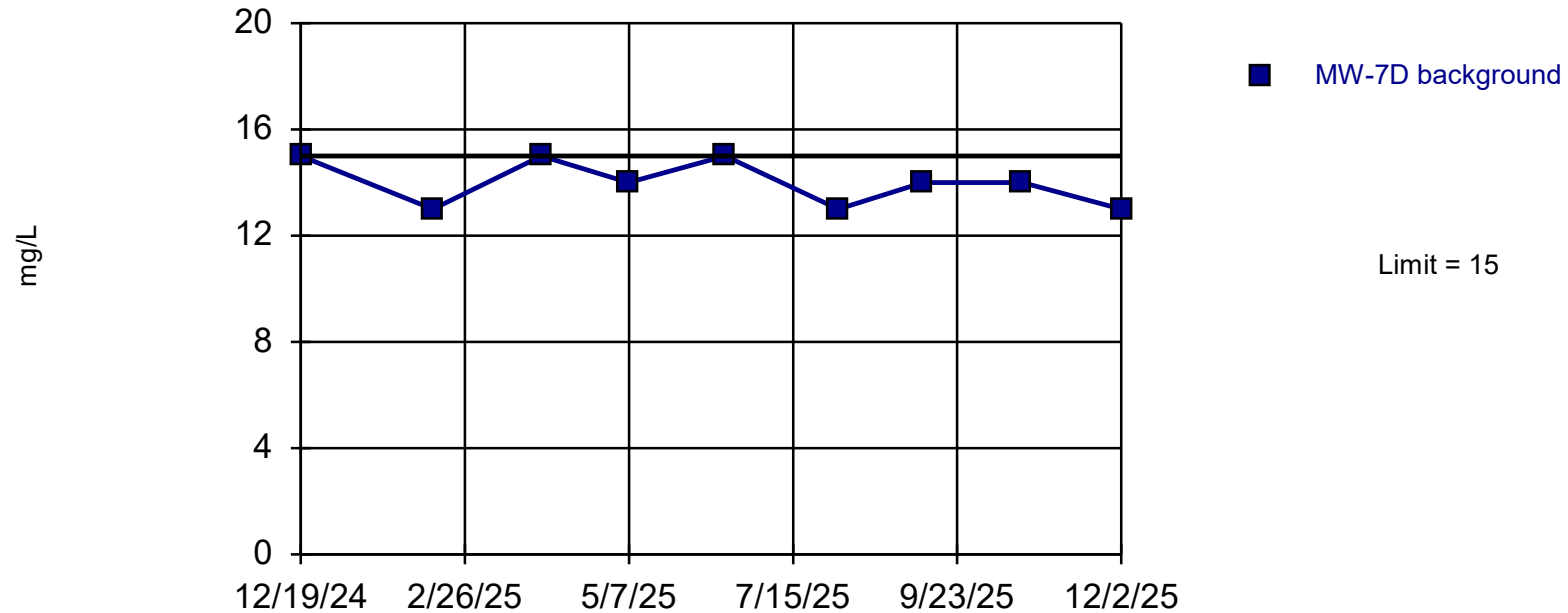


Background Data Summary: Mean=44.8, Std. Dev.=2.86, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9577, critical = 0.842. Report alpha = 0.0005 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:23 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-7D

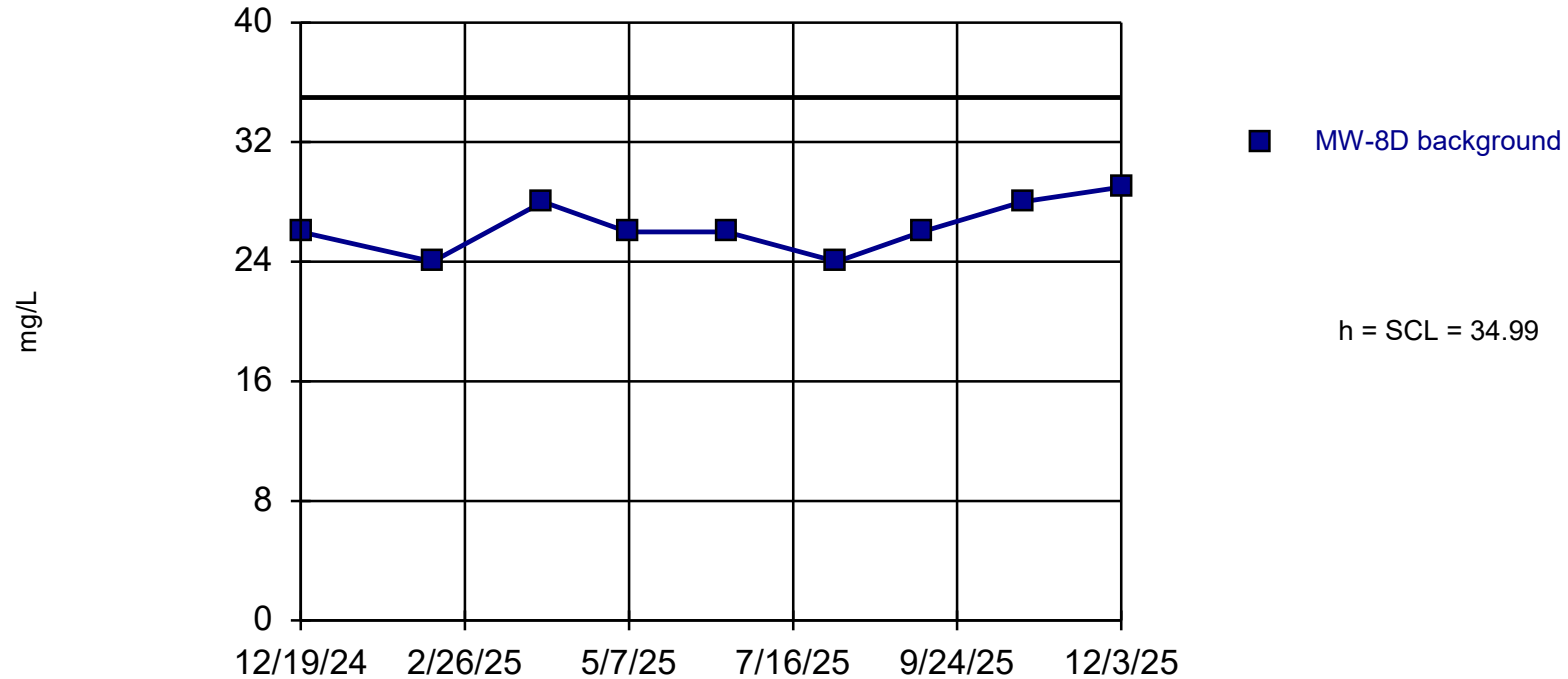


Non-parametric test used in lieu of control chart because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:23 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-8D

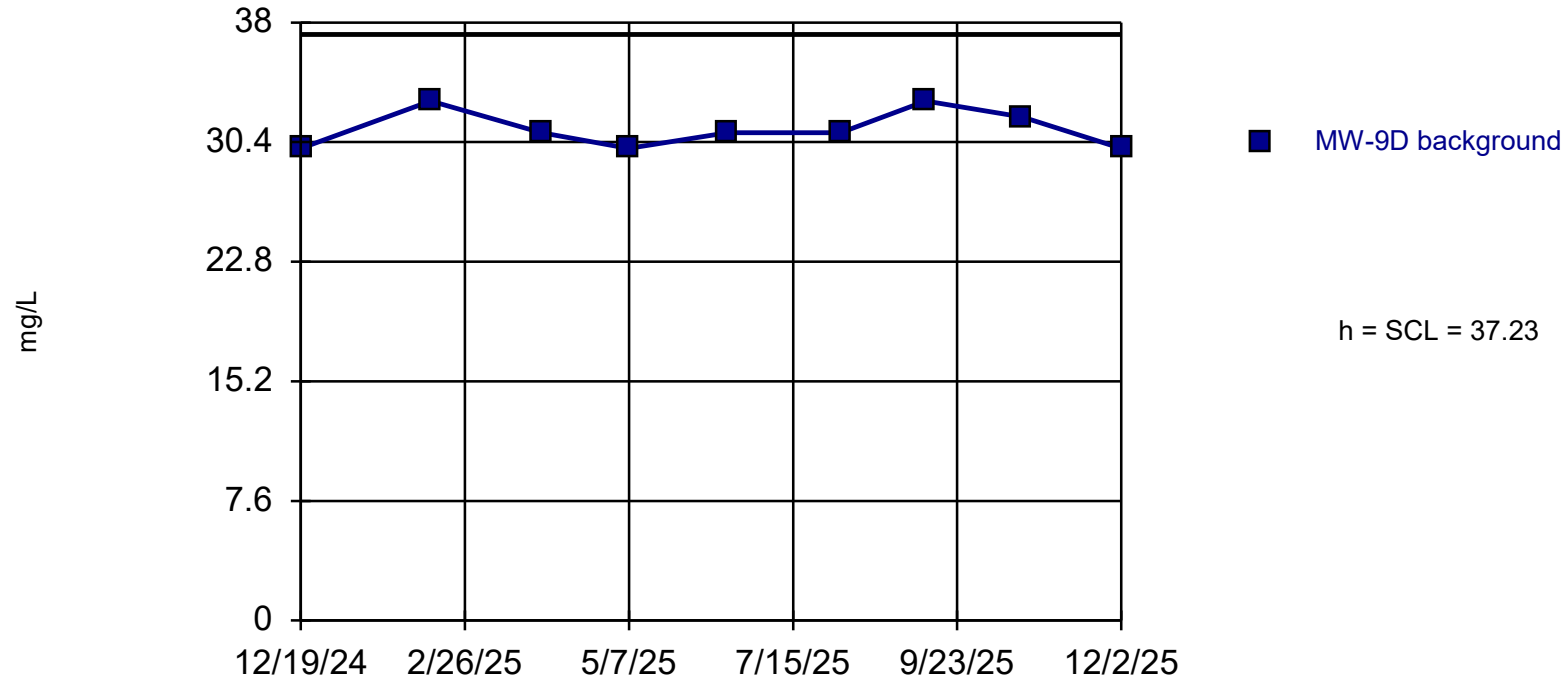


Background Data Summary: Mean=26.33, Std. Dev.=1.732, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8958, critical = 0.829. Report alpha = 0.000772 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-9D

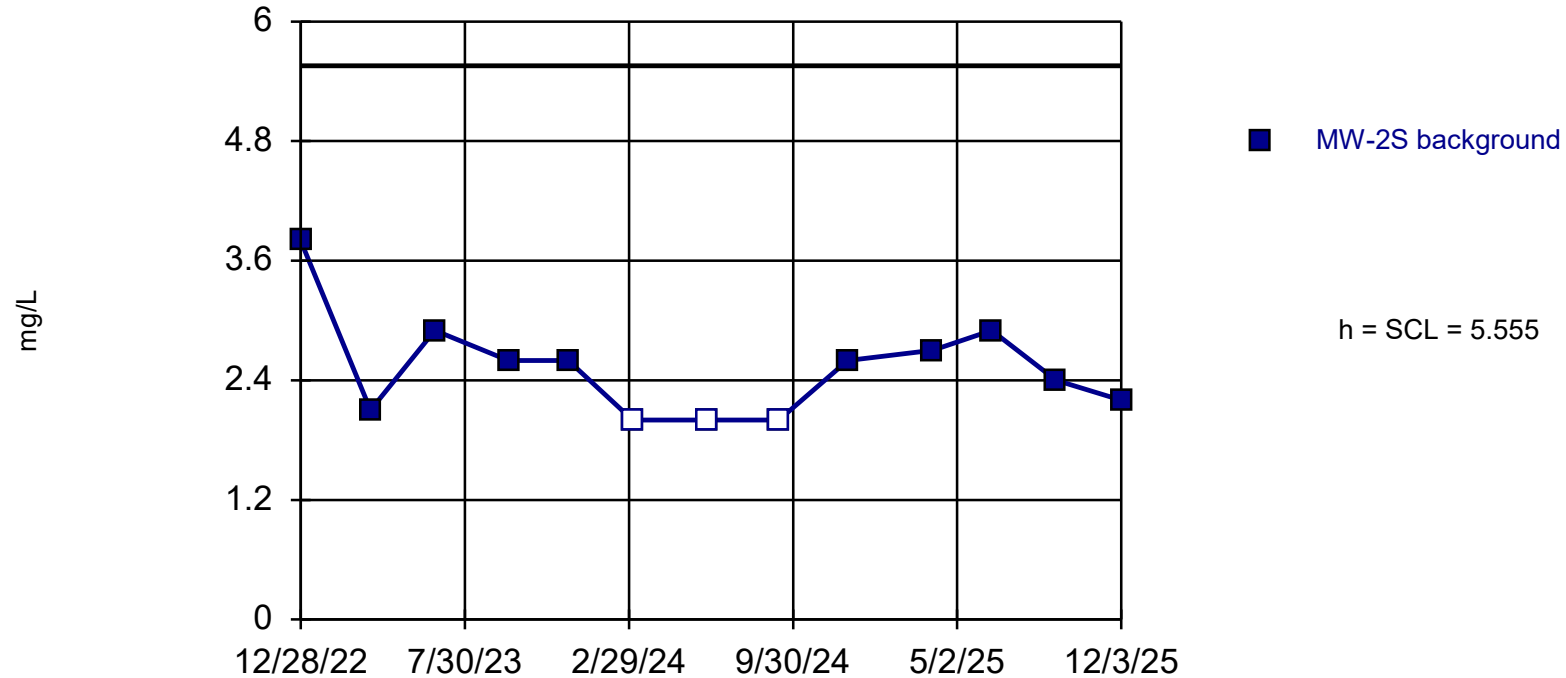


Background Data Summary: Mean=31.22, Std. Dev.=1.202, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8504, critical = 0.829. Report alpha = 0.000772 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-2S

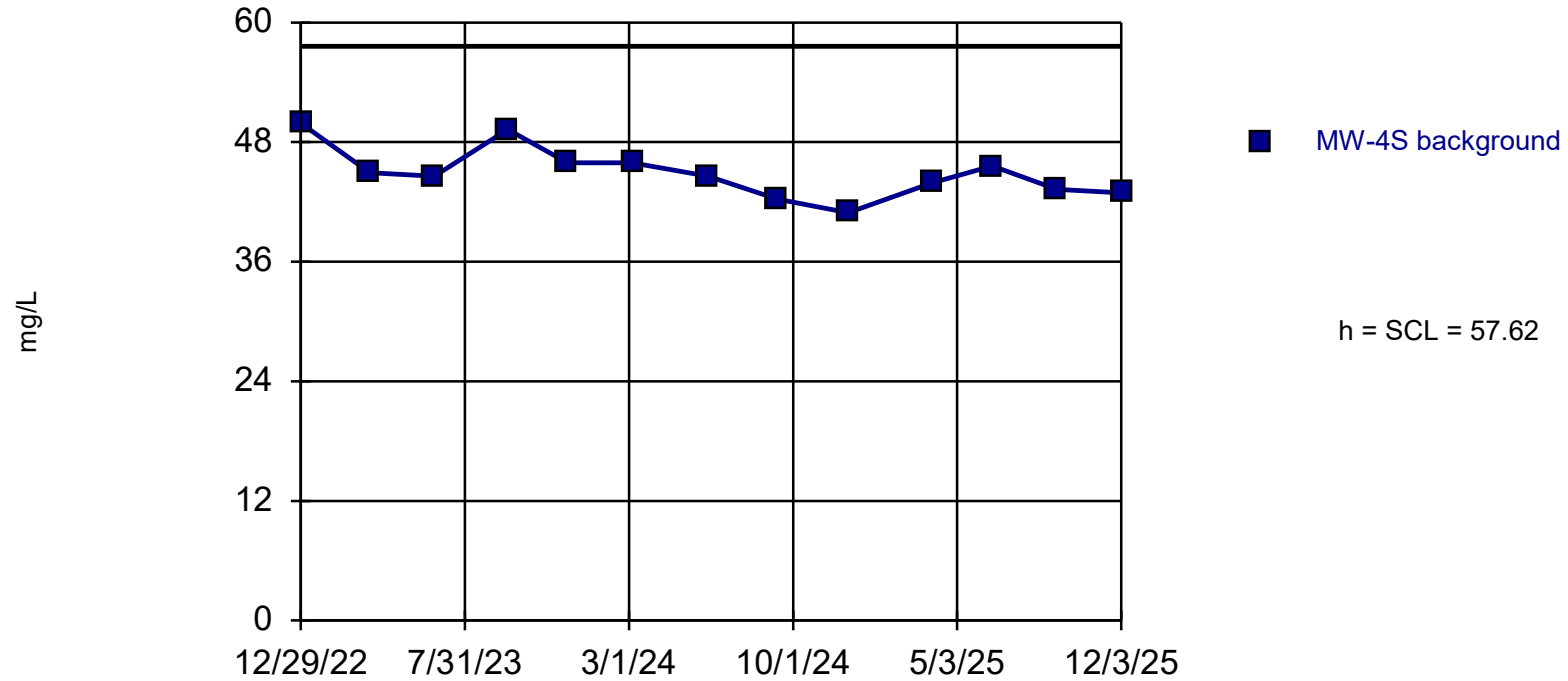


Background Data Summary (after Cohen's Adjustment): Mean=2.438, Std. Dev.=0.6235, n=13, 23.08% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8704, critical = 0.866. Report alpha = 0.000206 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Chloride Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-4S

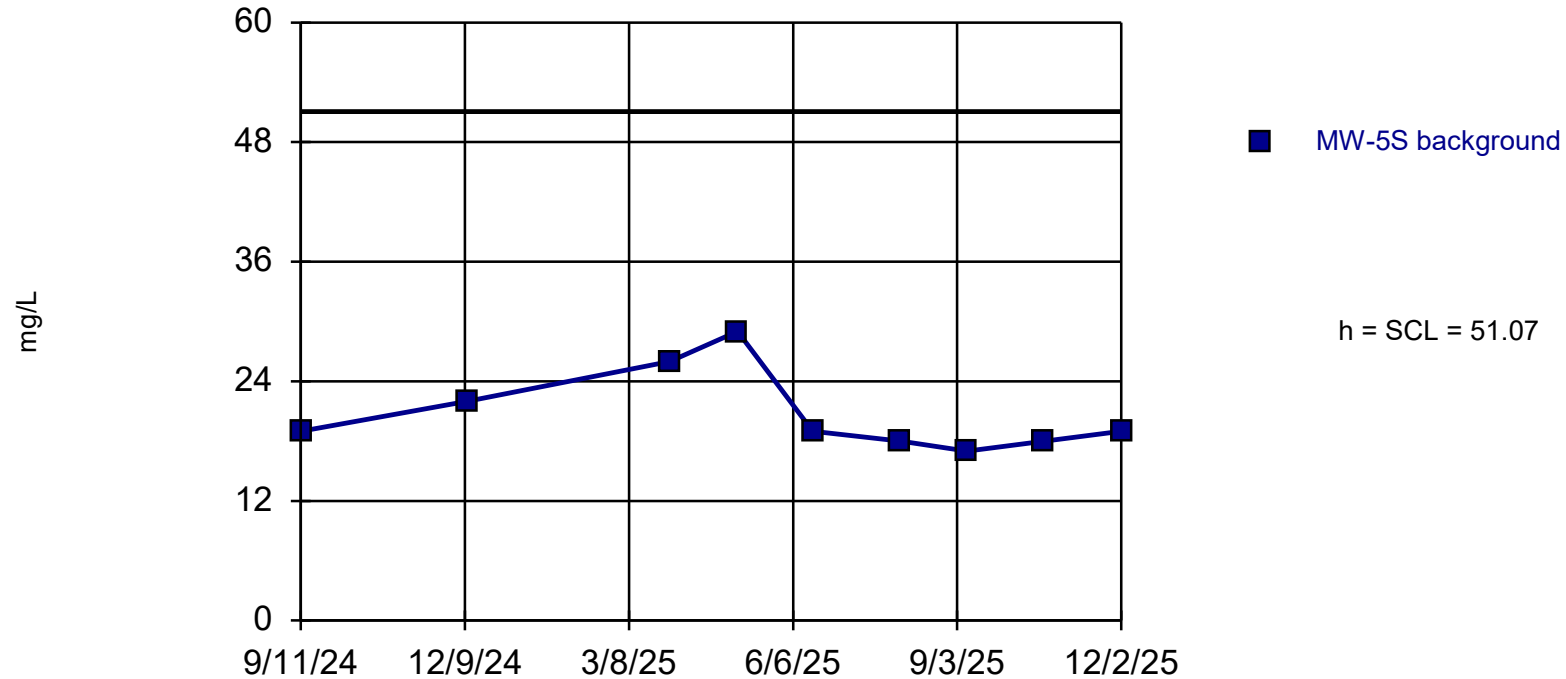


Background Data Summary: Mean=44.92, Std. Dev.=2.539, n=13. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.941, critical = 0.866. Report alpha = 0.000206 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Chloride Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-5S

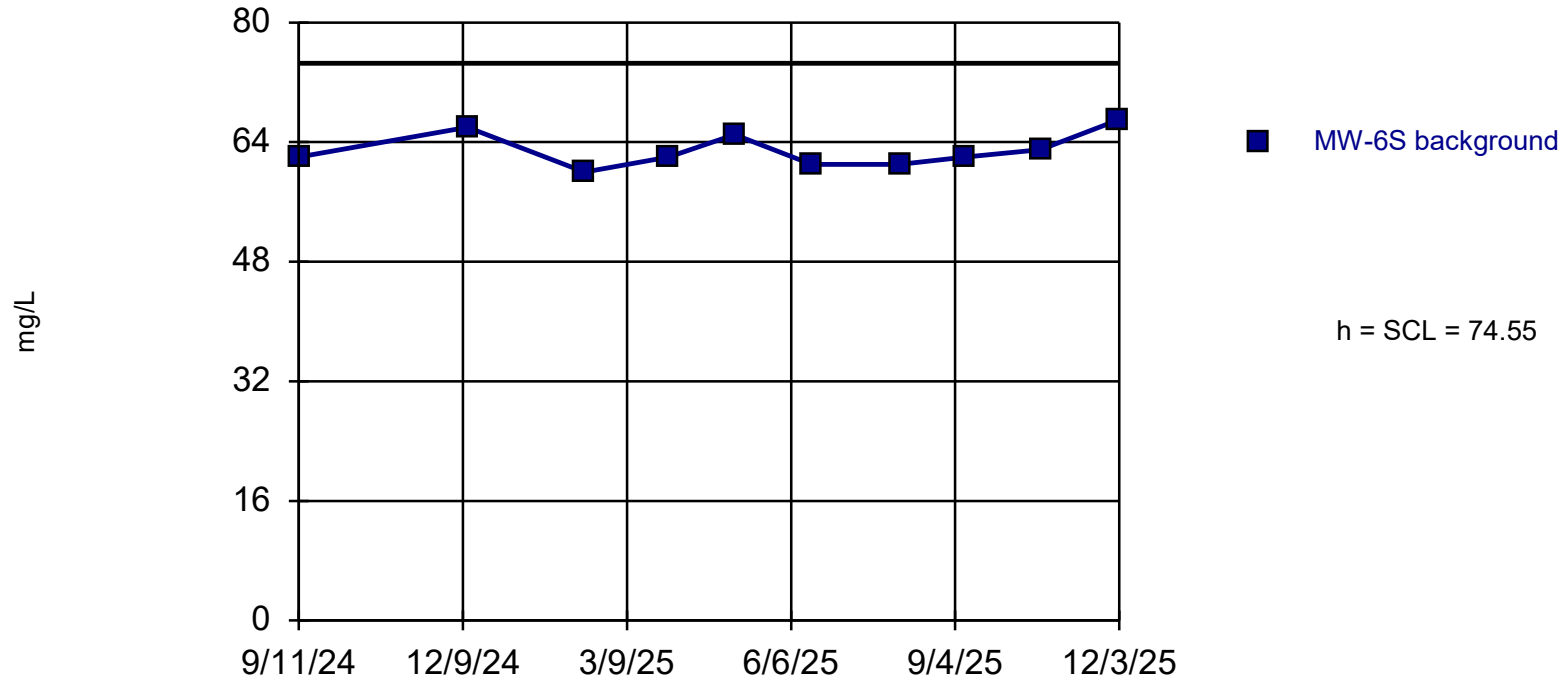


Background Data Summary (based on natural log transformation): Mean=3.018, Std. Dev.=0.183, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8364, critical = 0.829. Report alpha = 0.000708 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Chloride Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-6S

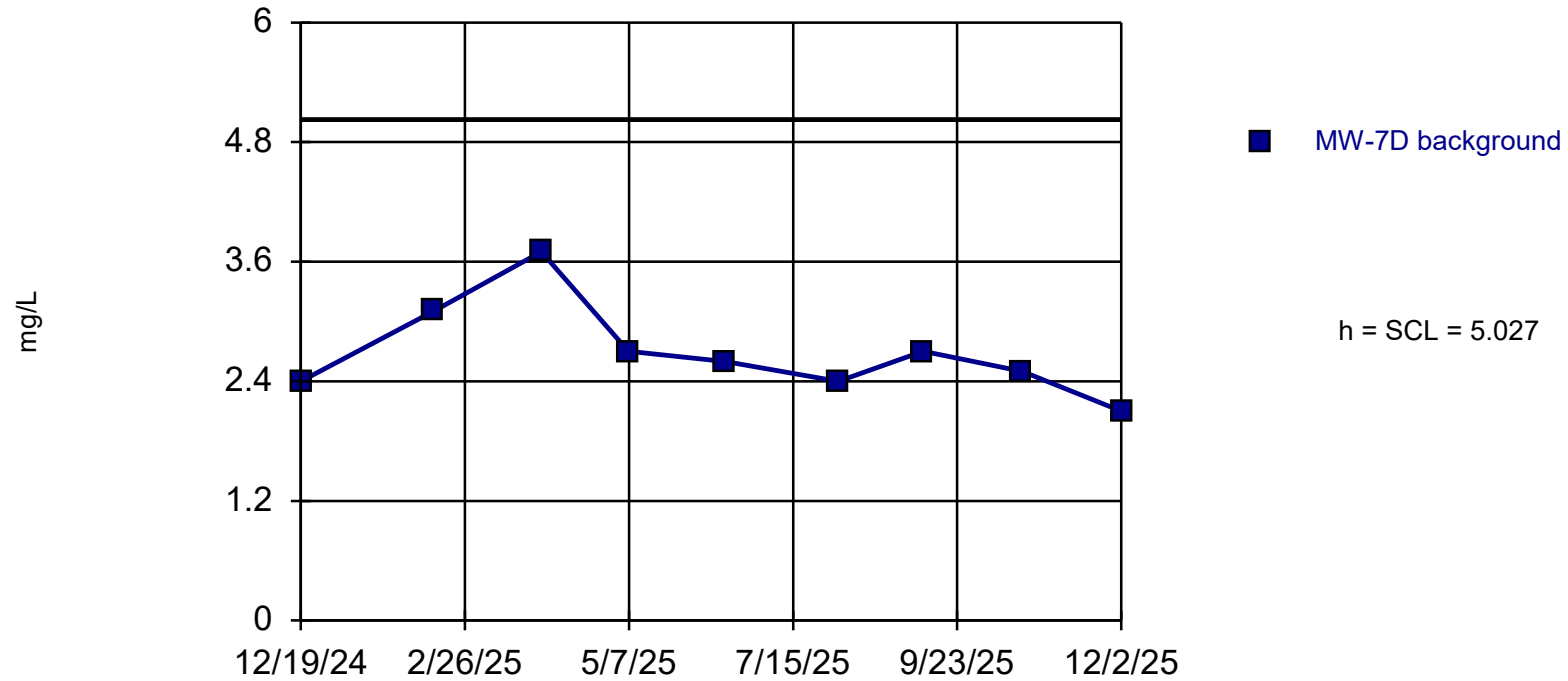


Background Data Summary: Mean=62.9, Std. Dev.=2.331, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9021, critical = 0.842. Report alpha = 0.000458 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Chloride Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-7D

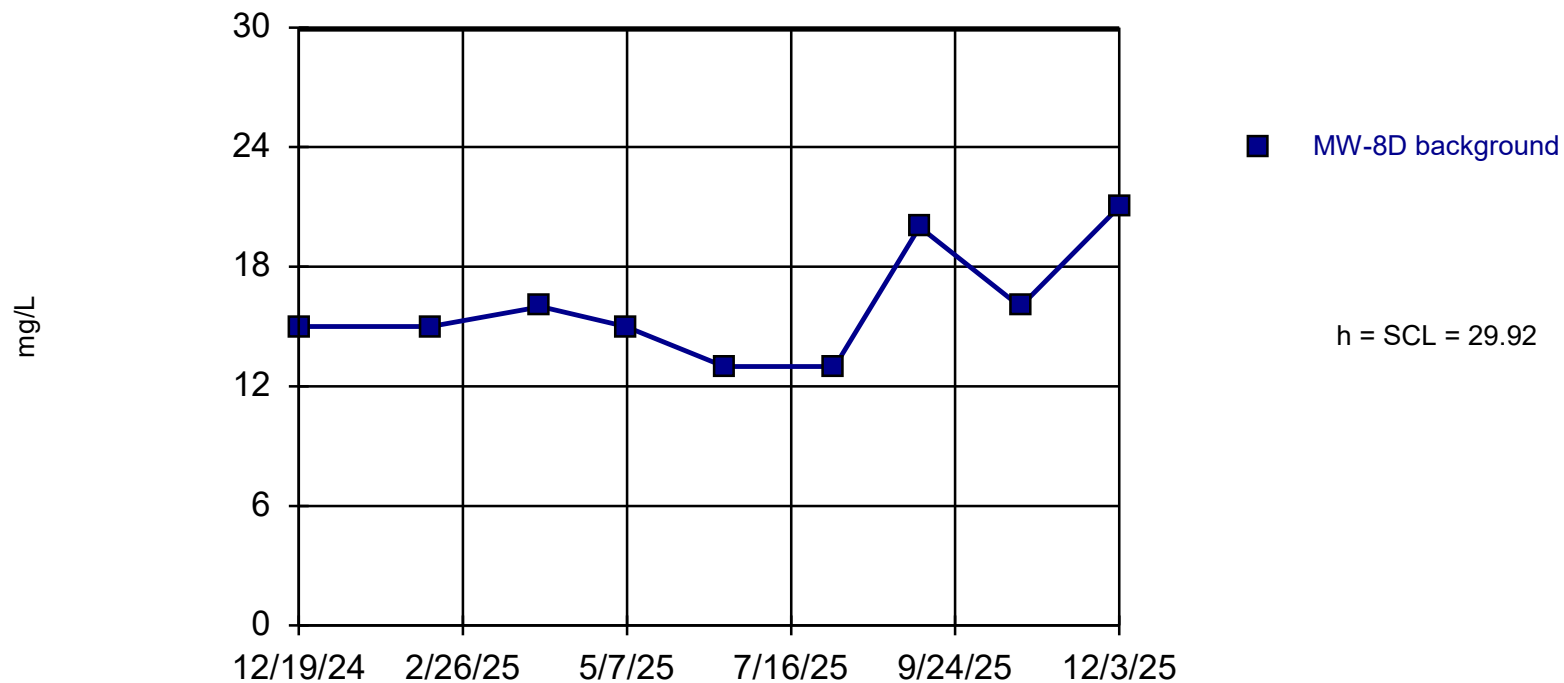


Background Data Summary: Mean=2.689, Std. Dev.=0.4676, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8897, critical = 0.829. Report alpha = 0.00068 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Chloride Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-8D



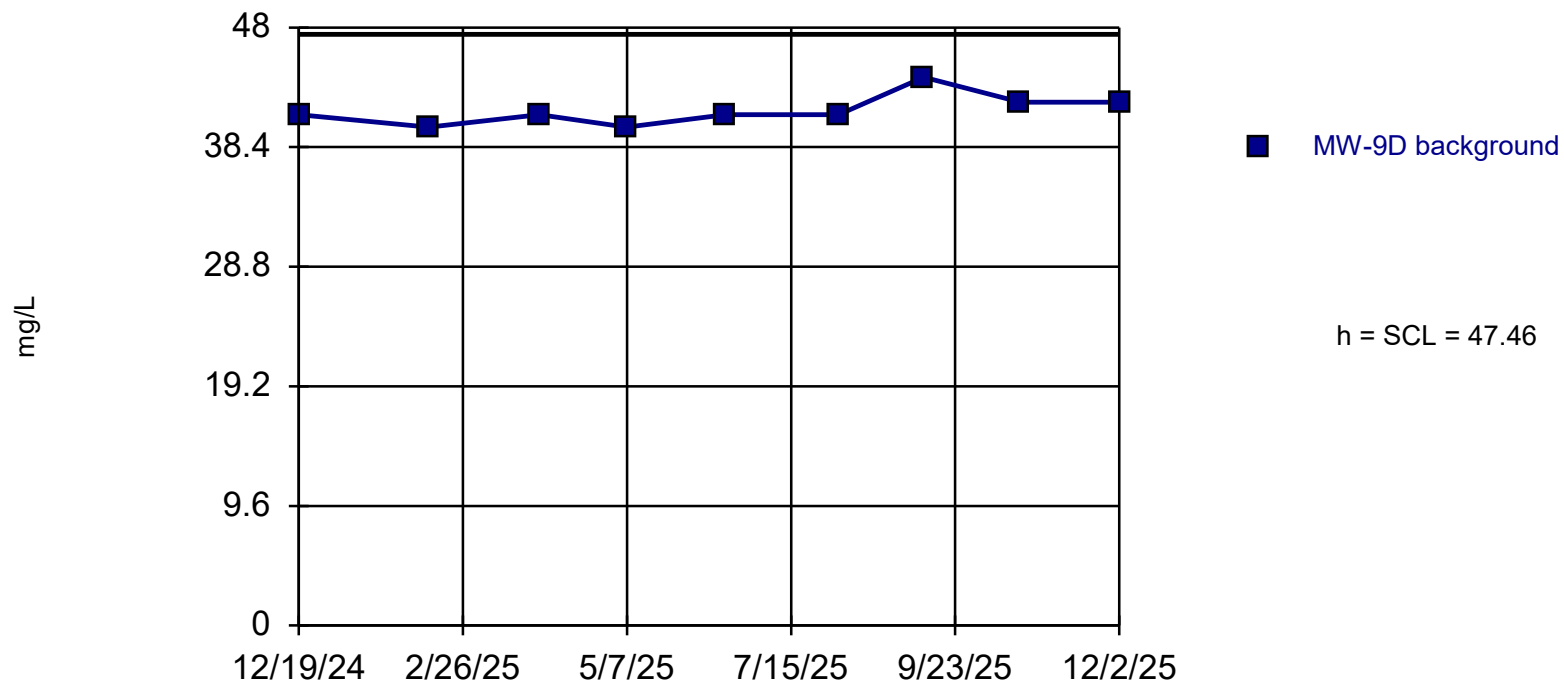
Background Data Summary: Mean=16, Std. Dev.=2.784, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8533, critical = 0.829. Report alpha = 0.00068 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Chloride Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-9D



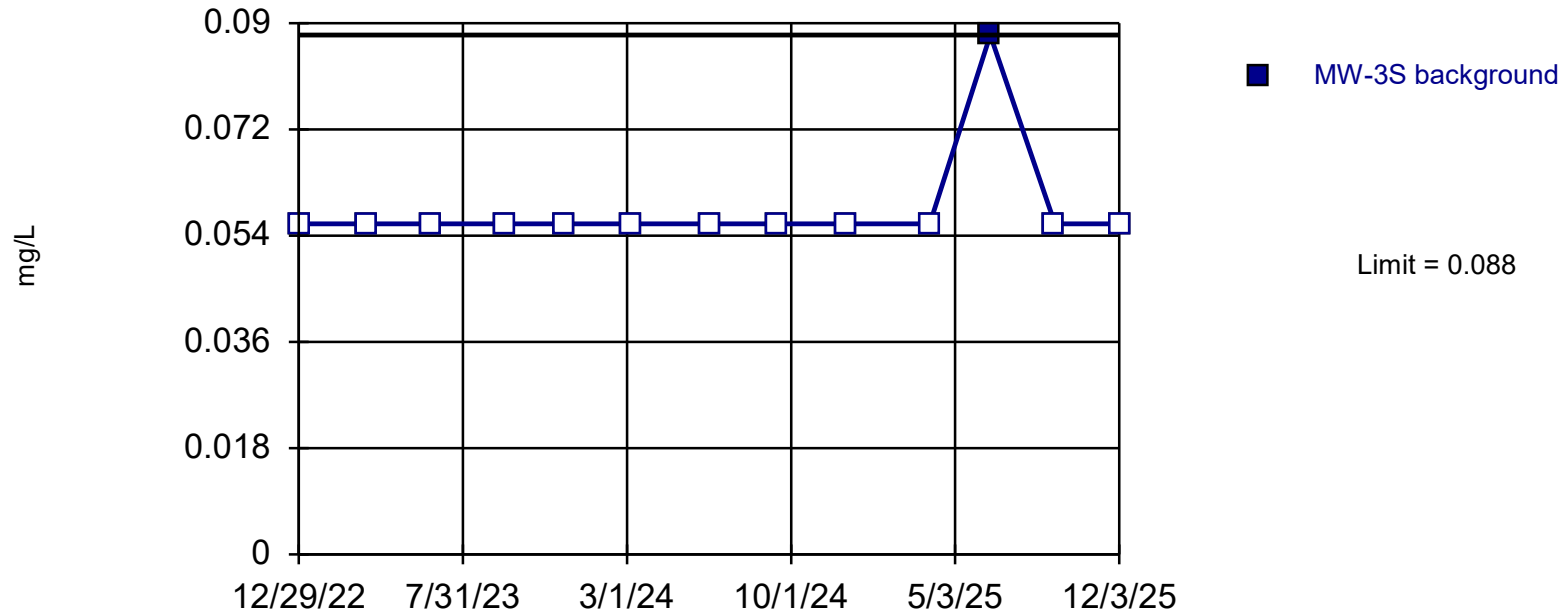
Background Data Summary: Mean=41.33, Std. Dev.=1.225, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8542, critical = 0.829. Report alpha = 0.00068 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Chloride Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-3S

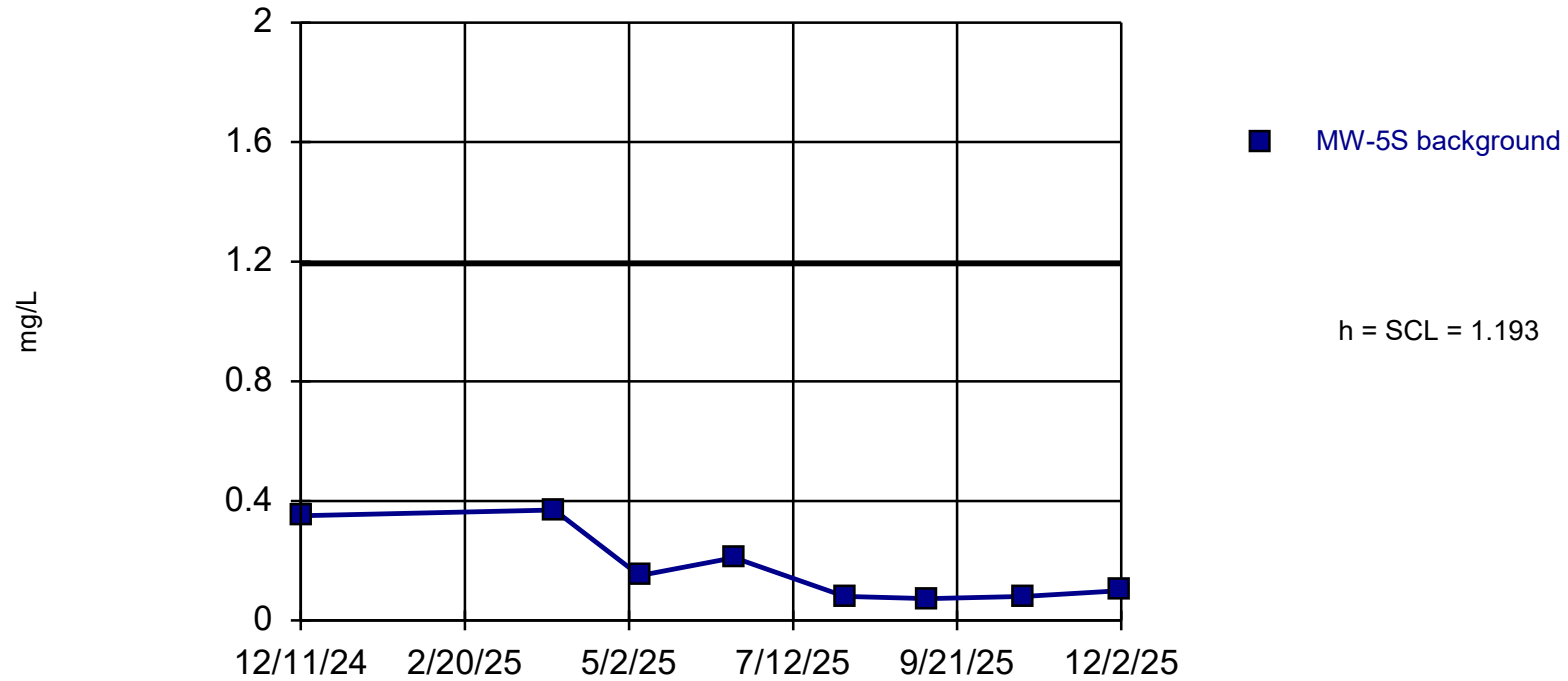


Non-parametric test used in lieu of control chart because non-detects exceed user-adjustable maximum of 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.03689. Individual comparison alpha = 0.009354 (1 of 2). Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Iron, Dissolved Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

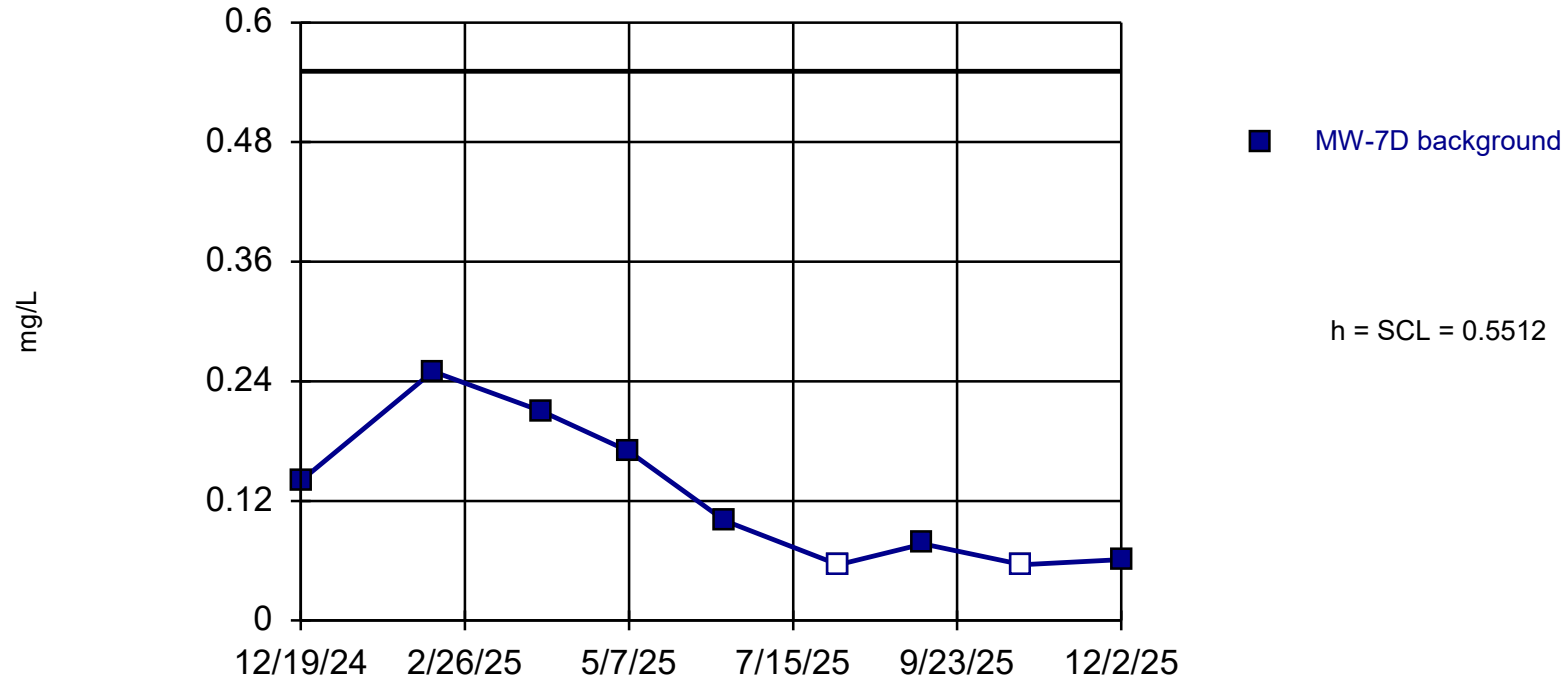
MW-5S



Background Data Summary (based on square root transformation): Mean=0.4001, Std. Dev.=0.1384, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8416, critical = 0.818. Report alpha = 0.00111 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Control Chart

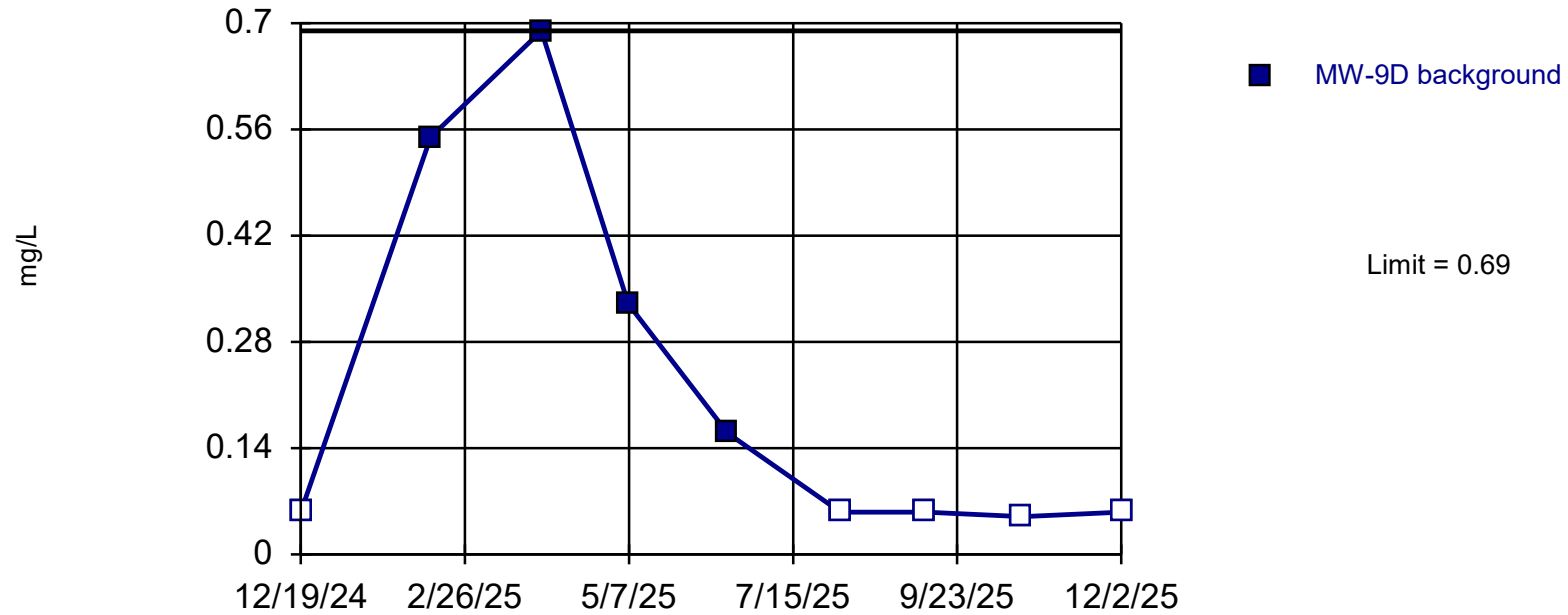
MW-7D



Background Data Summary (after Cohen`s Adjustment): Mean=0.1126, Std. Dev.=0.08772, n=9, 22.22% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8824, critical = 0.829. Report alpha = 0.000752 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Prediction Limit

Intrawell Non-parametric, MW-9D

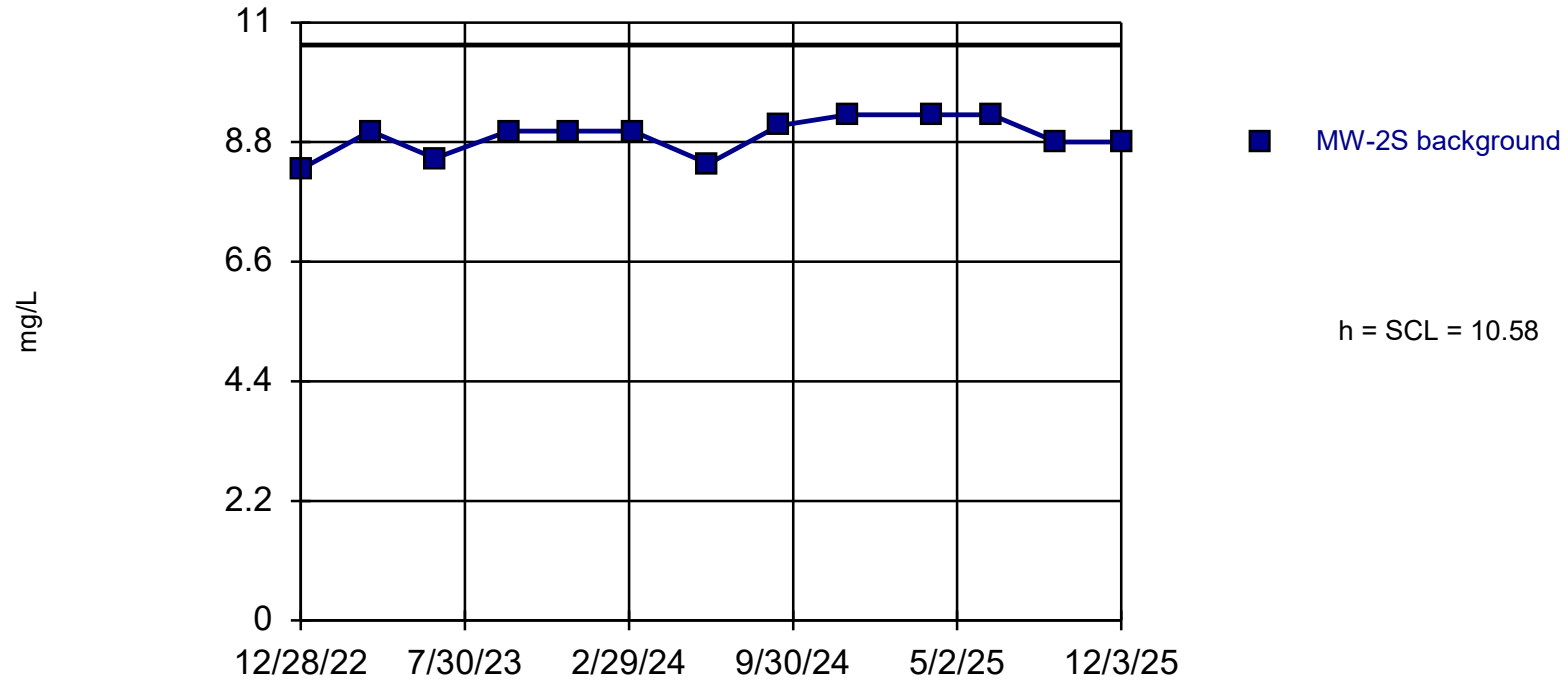


Non-parametric test used in lieu of control chart because non-detects exceed user-adjustable maximum of 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Iron, Dissolved Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-2S

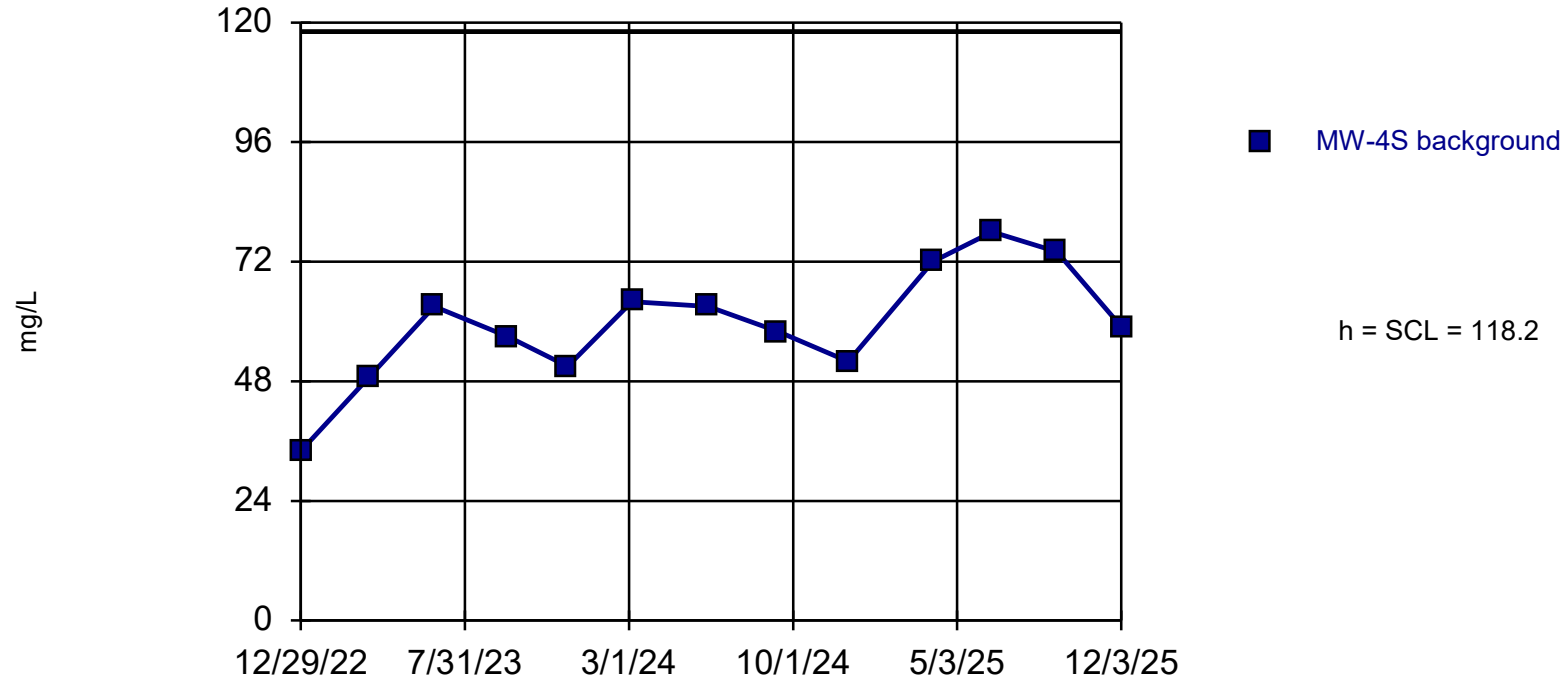


Background Data Summary: Mean=8.908, Std. Dev.=0.3353, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8989, critical = 0.866. Report alpha = 0.000204 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-4S



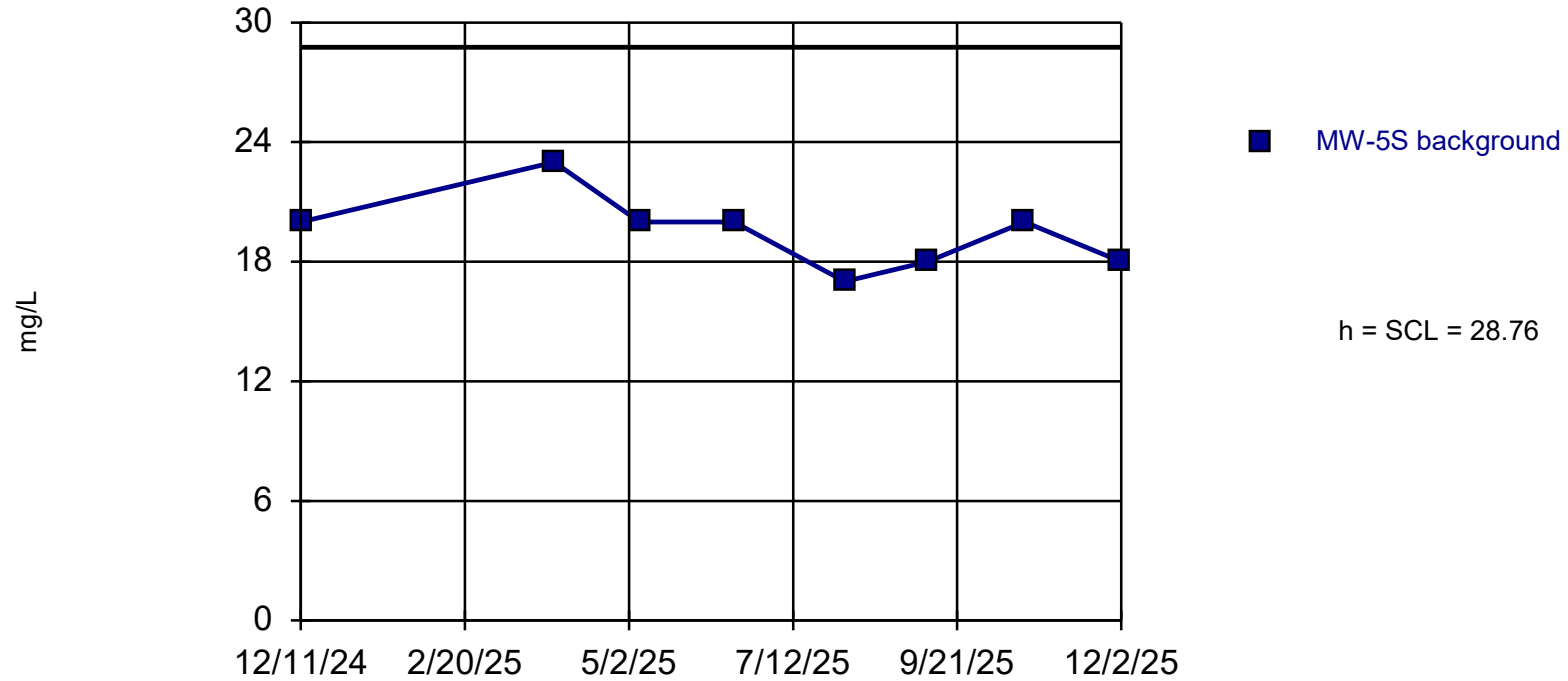
Background Data Summary: Mean=59.54, Std. Dev.=11.73, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9658, critical = 0.866. Report alpha = 0.000204 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-5S

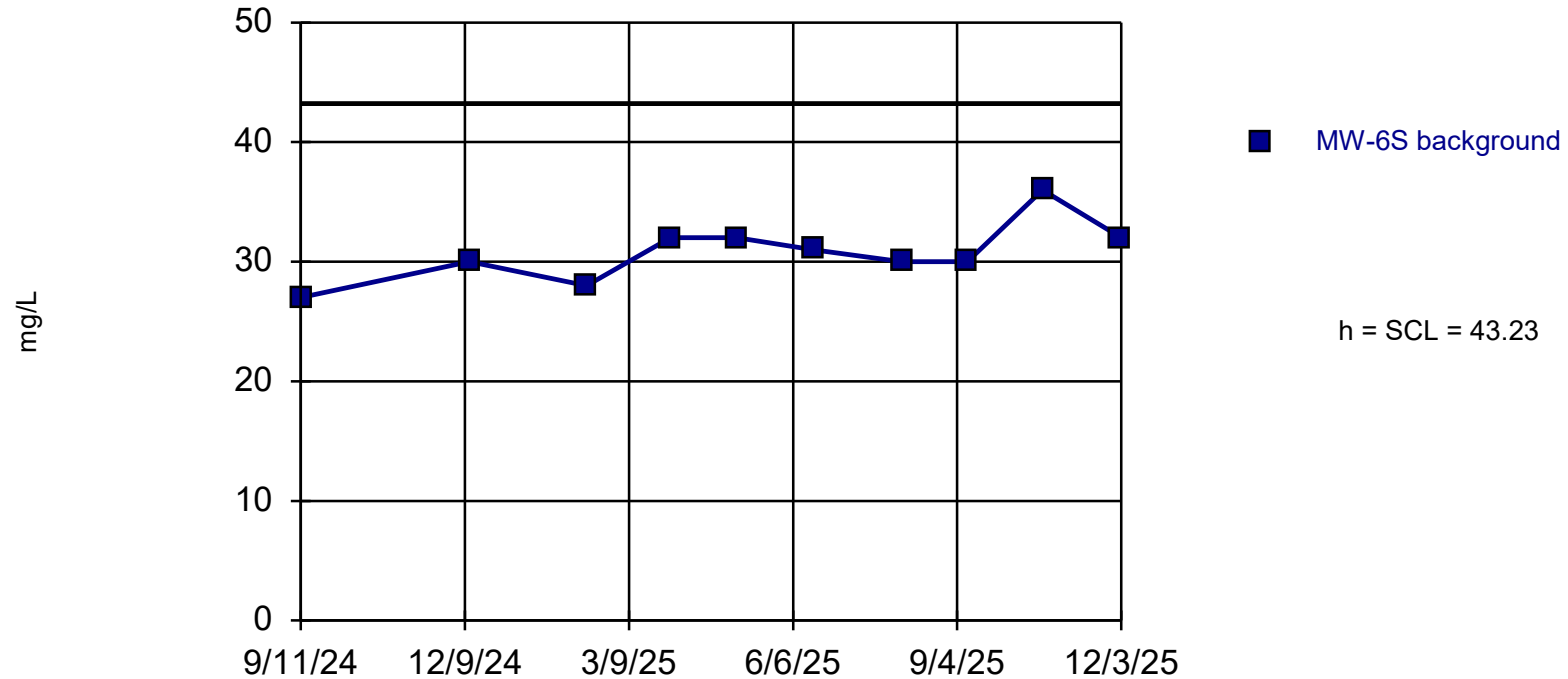


Background Data Summary: Mean=19.5, Std. Dev.=1.852, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8865, critical = 0.818. Report alpha = 0.001022 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:24 PM View: 2026-2027 UPLs & CCs 4Q22
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-6S

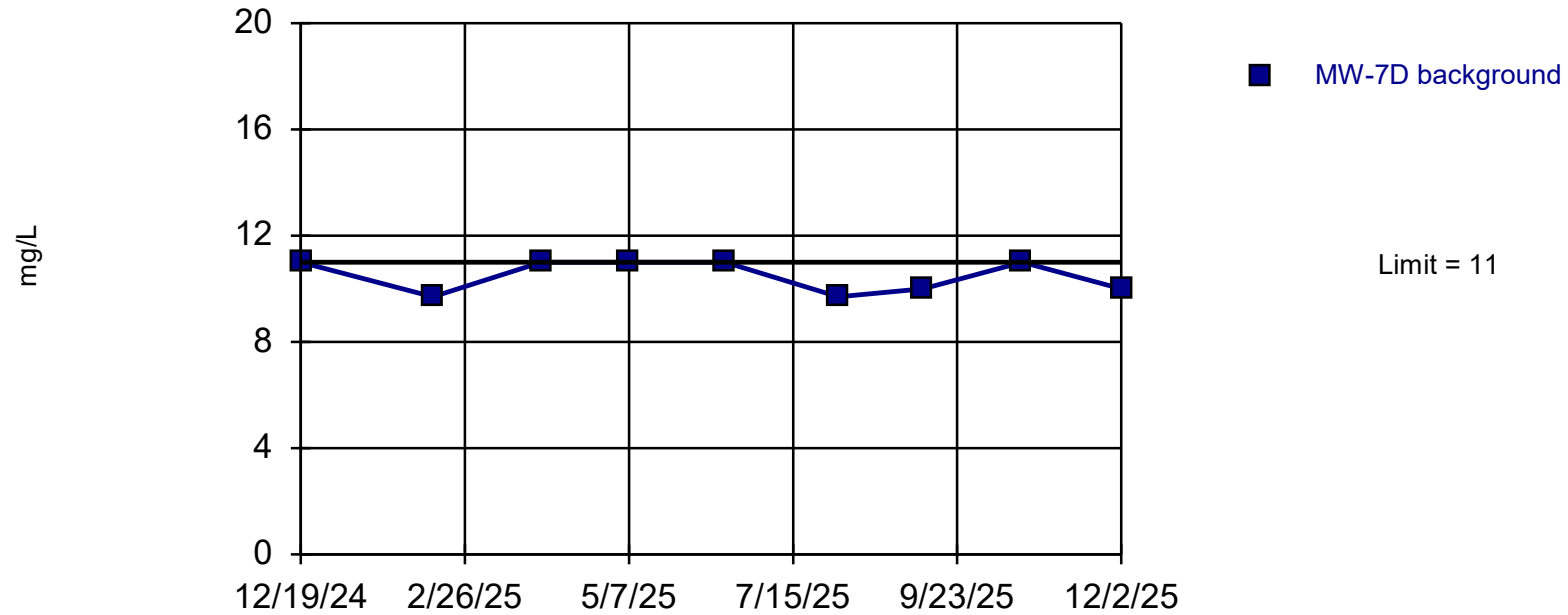


Background Data Summary: Mean=30.8, Std. Dev.=2.486, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9309, critical = 0.842. Report alpha = 0.000458 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-7D



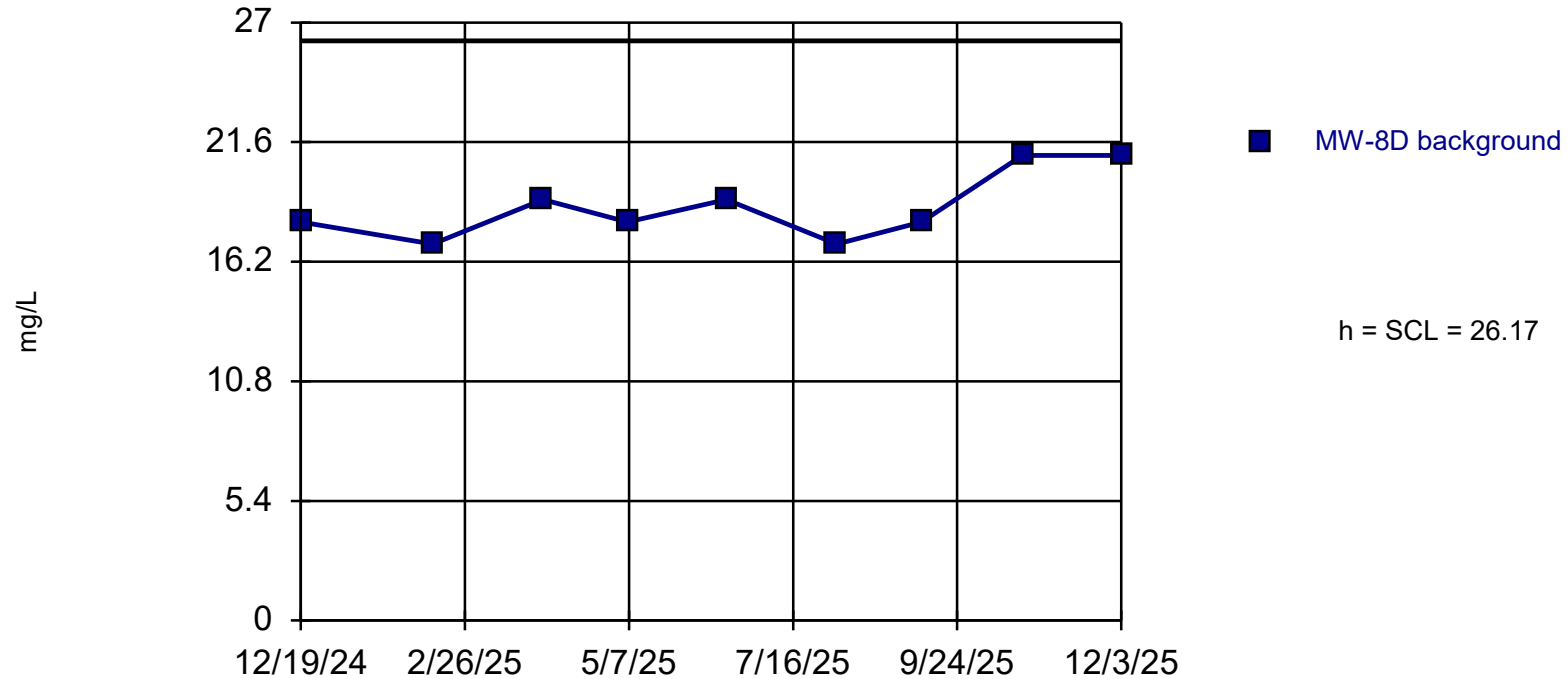
Non-parametric test used in lieu of control chart because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-8D



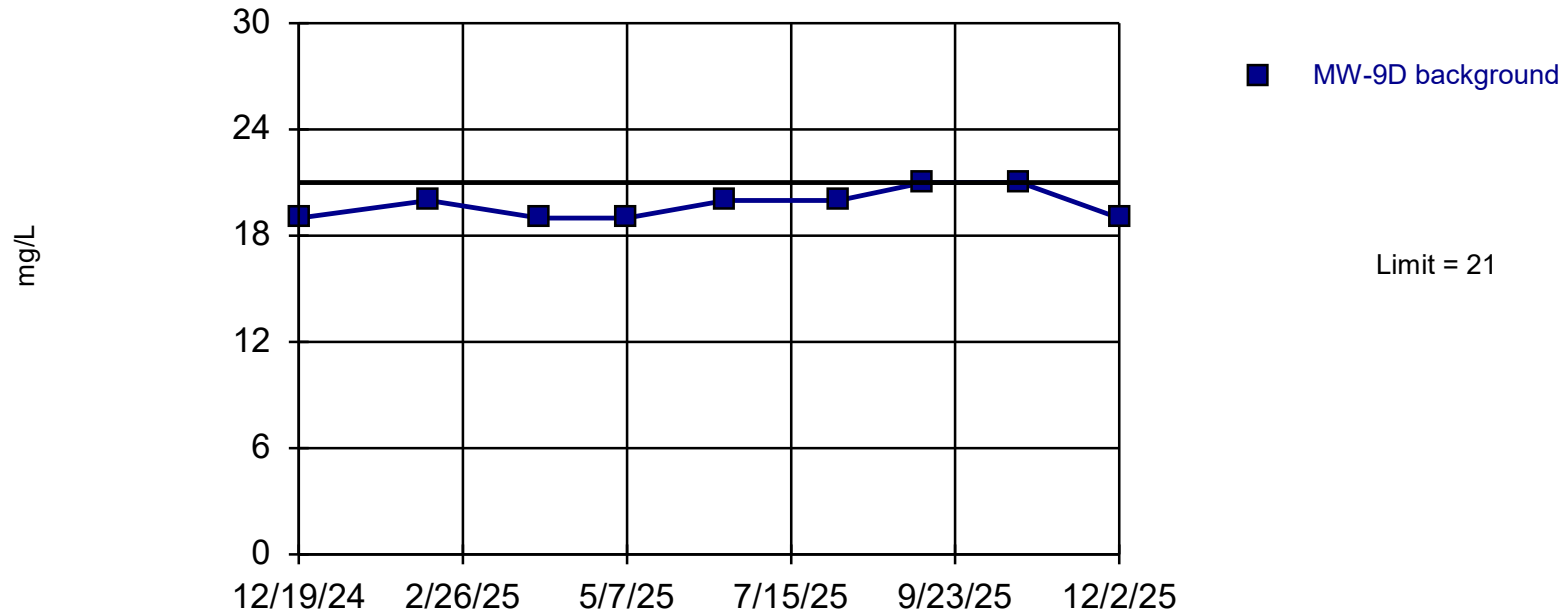
Background Data Summary: Mean=18.67, Std. Dev.=1.5, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8647, critical = 0.829. Report alpha = 0.000782 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-9D



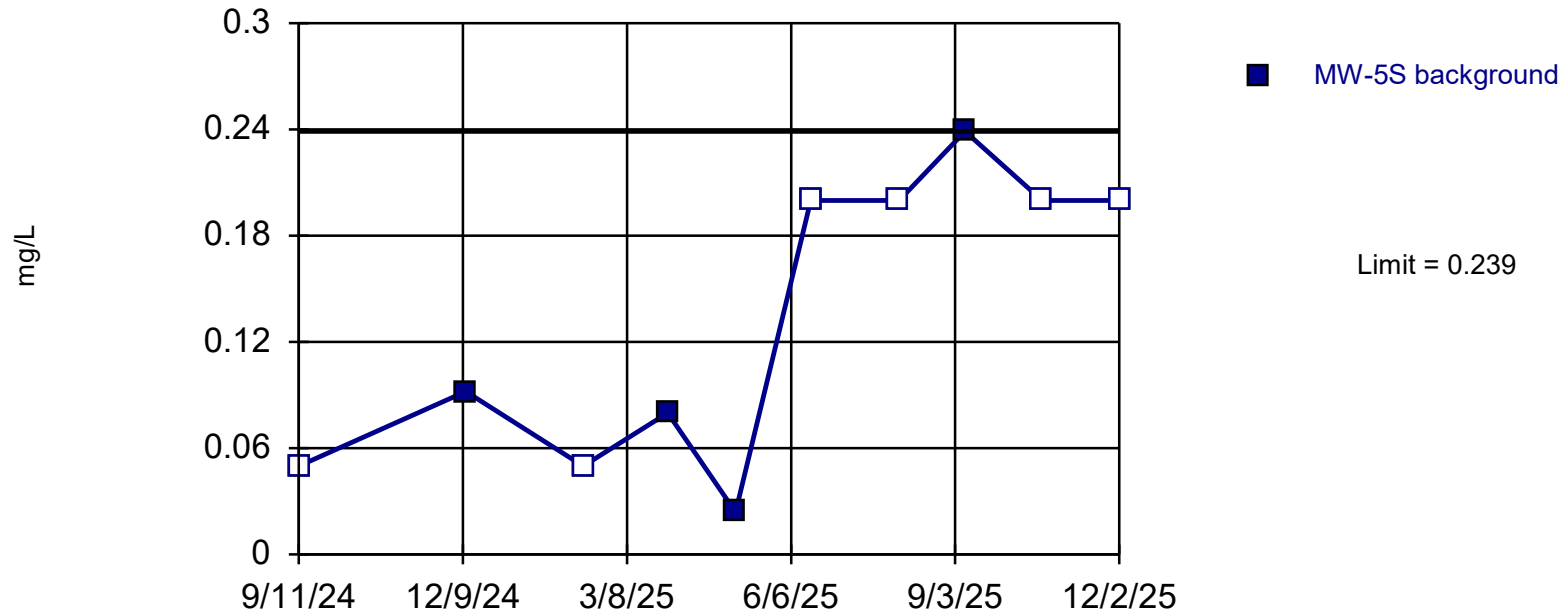
Non-parametric test used in lieu of control chart because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

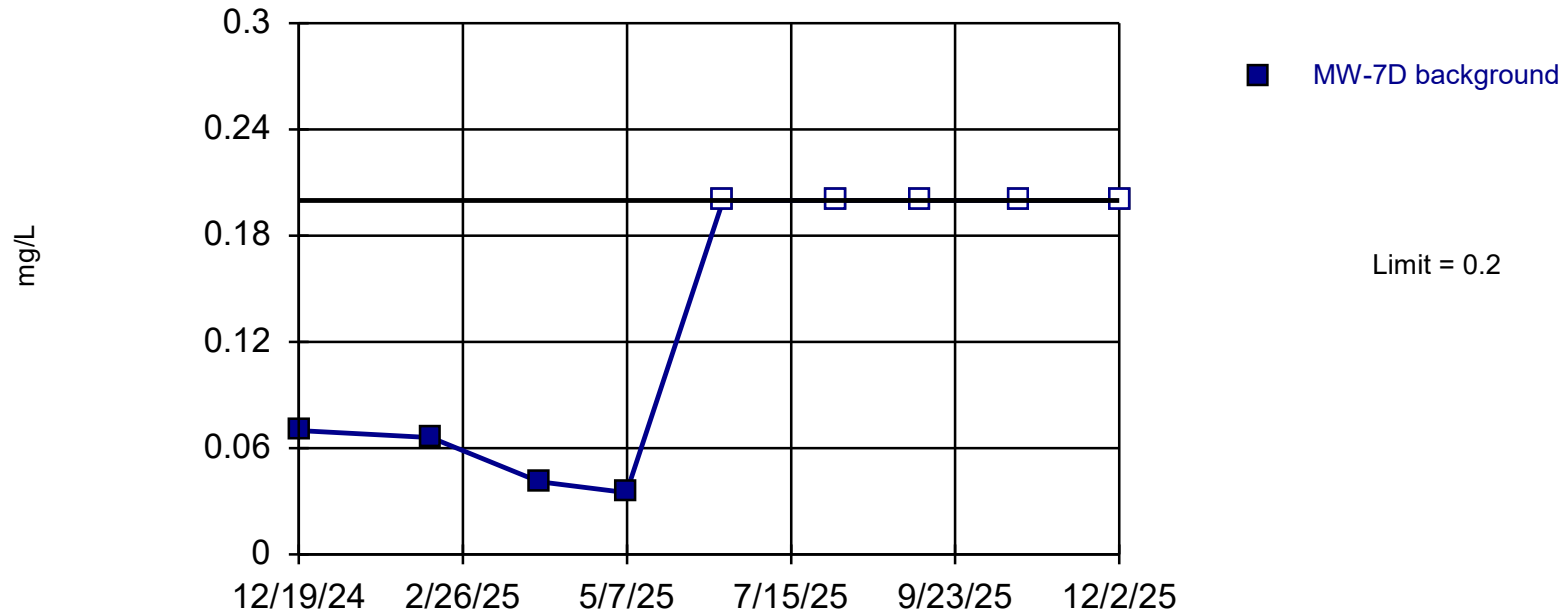
Intrawell Non-parametric, MW-5S



Non-parametric test used in lieu of control chart because non-detects exceed user-adjustable maximum of 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.05509. Individual comparison alpha = 0.01407 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Prediction Limit

Intrawell Non-parametric, MW-7D

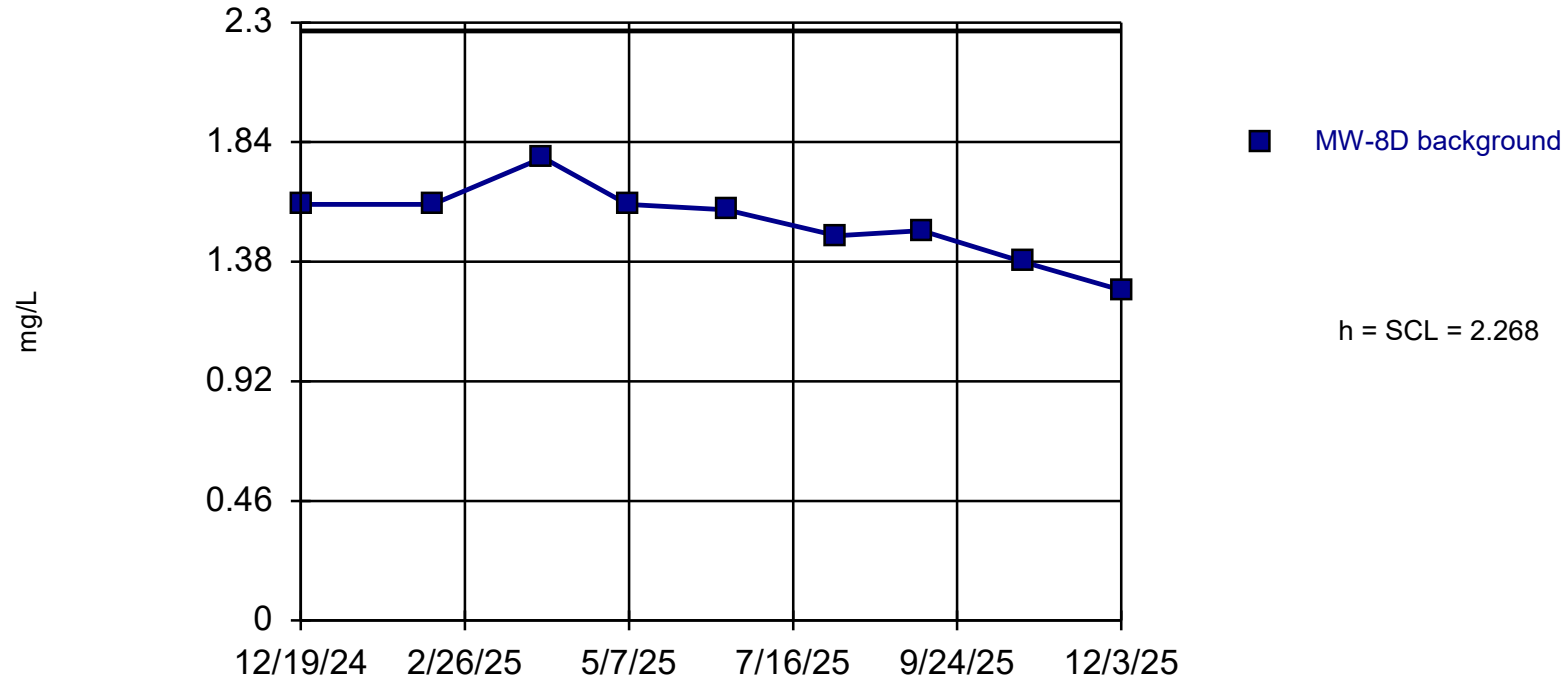


Non-parametric test used in lieu of control chart because non-detects exceed user-adjustable maximum of 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Nitrate Analysis Run 3/30/2026 6:00 PM View: 2026-2027 UPL & CC Nitrate
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-8D

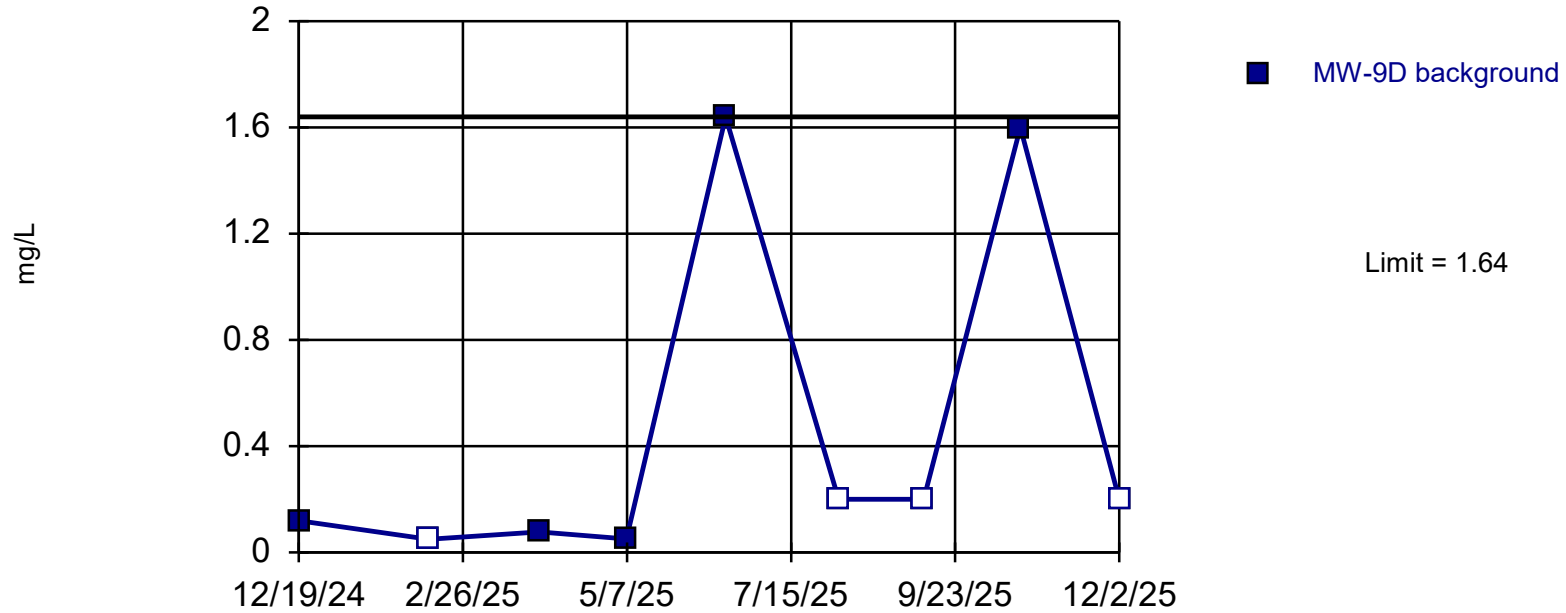


Background Data Summary: Mean=1.532, Std. Dev.=0.1471, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9465, critical = 0.829. Report alpha = 0.000722 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Nitrate Analysis Run 3/30/2026 6:00 PM View: 2026-2027 UPL & CC Nitrate
 Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-9D

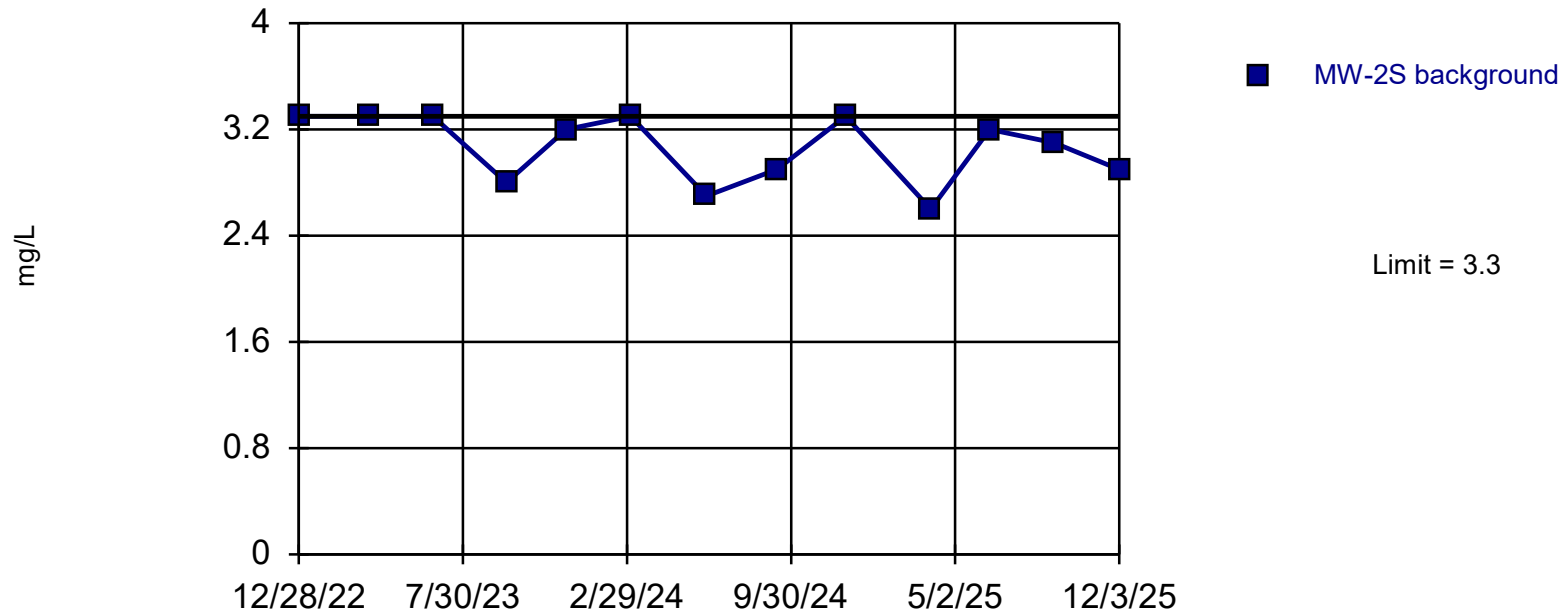


Non-parametric test used in lieu of control chart because the data required both a power transformation and Cohen's adjustment. Limit is highest of 9 background values. 44.44% NDs. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Nitrate Analysis Run 3/30/2026 6:00 PM View: 2026-2027 UPL & CC Nitrate
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-2S

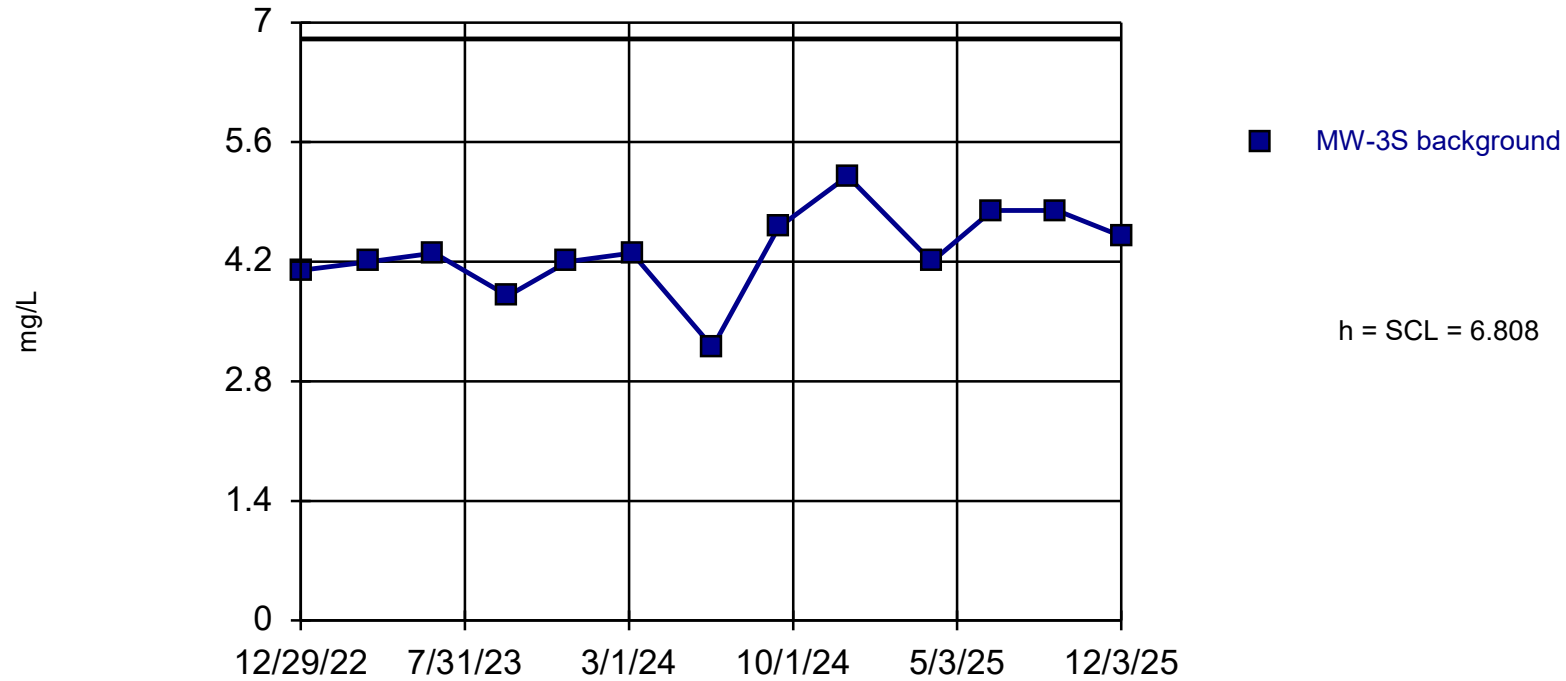


Non-parametric test used in lieu of control chart because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.03689. Individual comparison alpha = 0.009354 (1 of 2). Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-3S

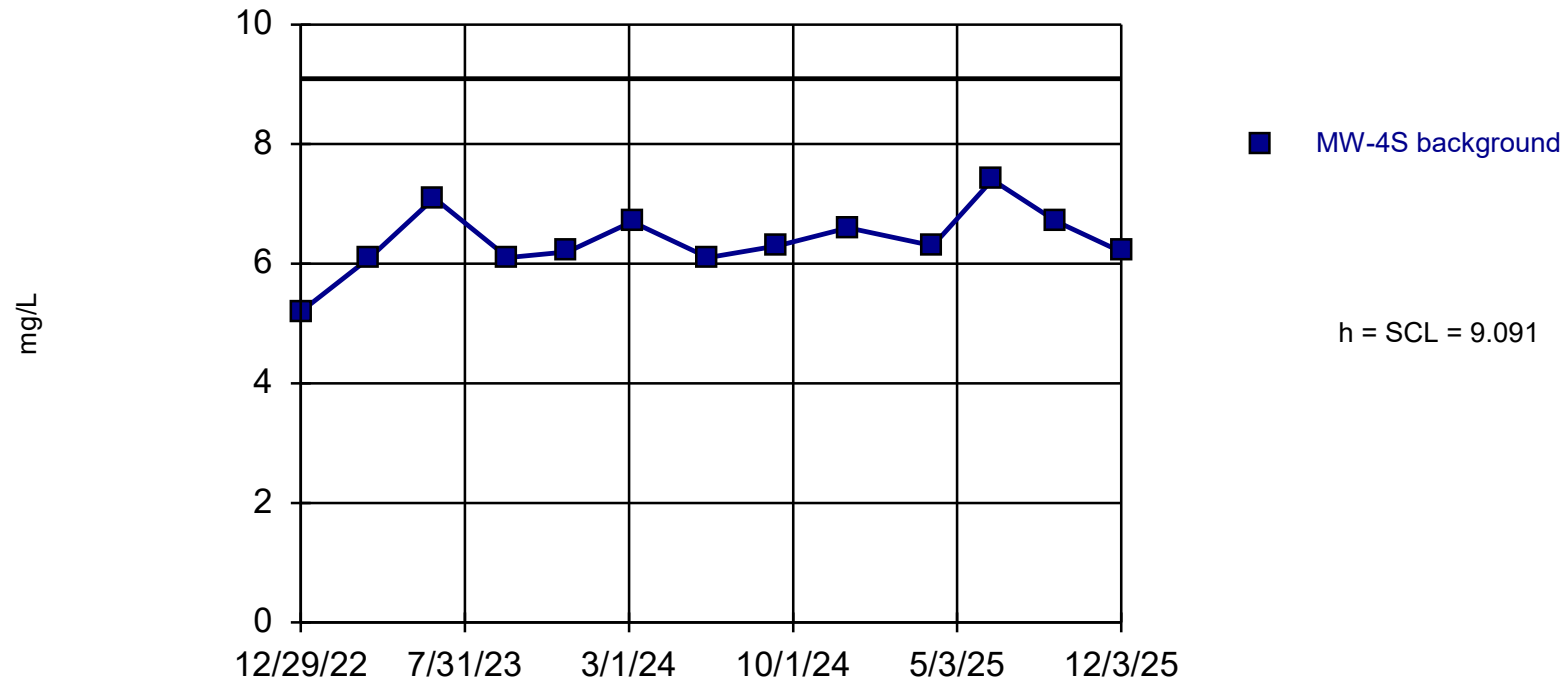


Background Data Summary: Mean=4.323, Std. Dev.=0.4969, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9523, critical = 0.866. Report alpha = 0.000226 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-4S

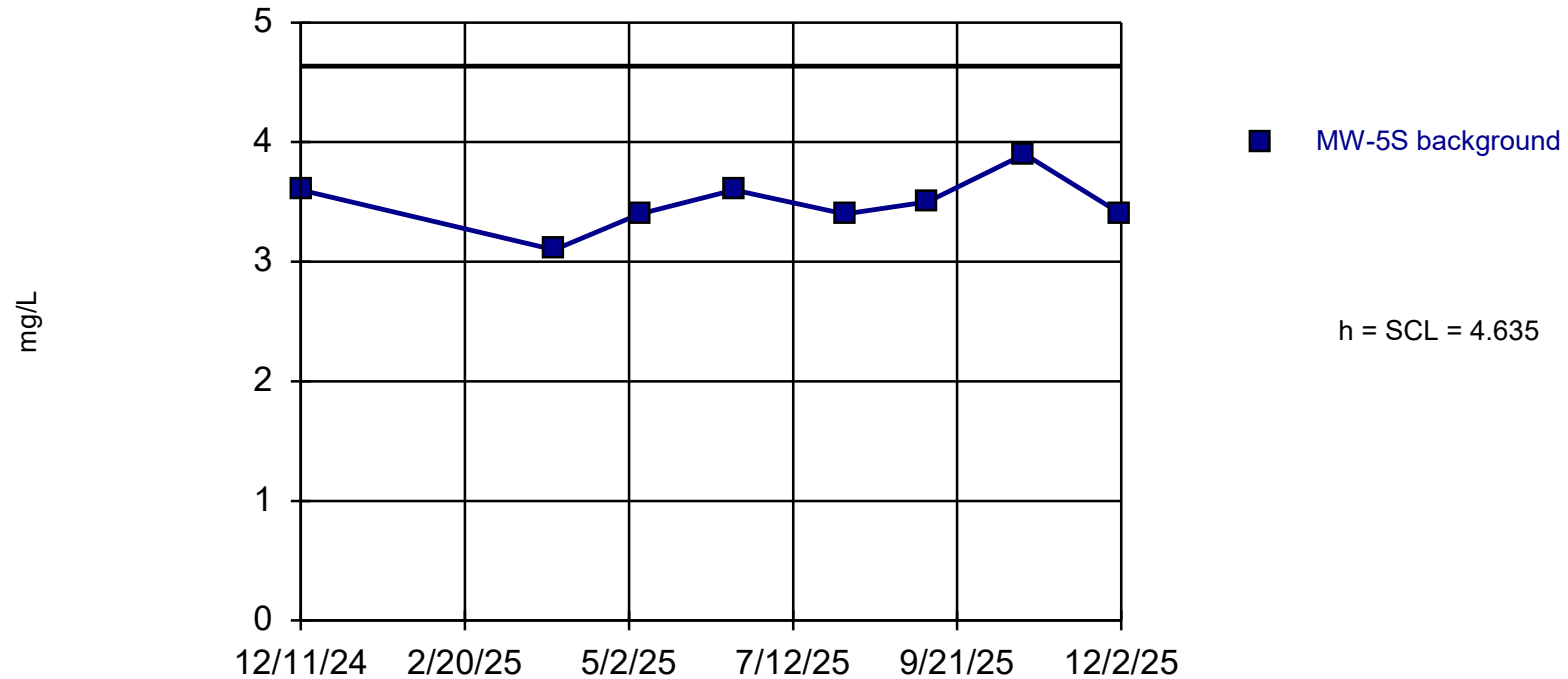


Background Data Summary: Mean=6.385, Std. Dev.=0.5414, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9294, critical = 0.866. Report alpha = 0.000226 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-5S

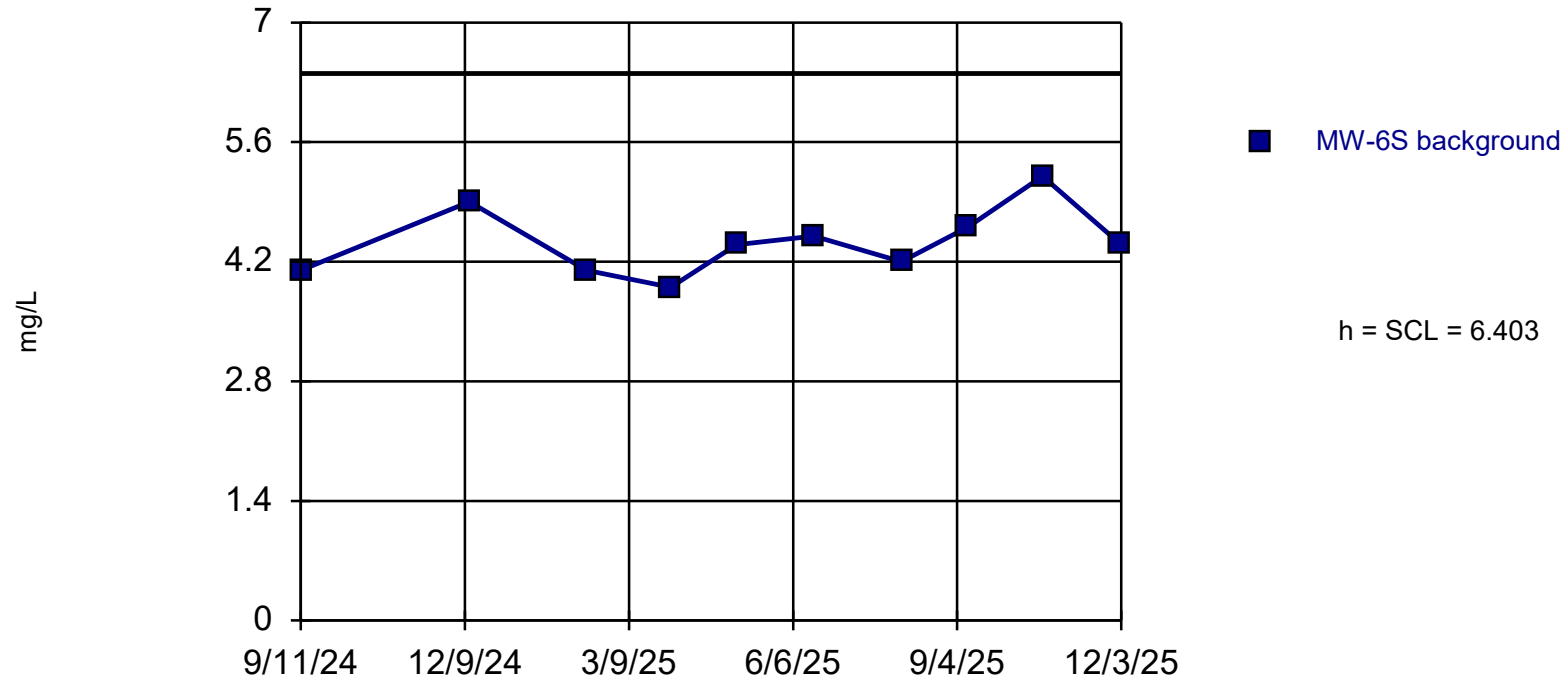


Background Data Summary: Mean=3.488, Std. Dev.=0.2295, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9373, critical = 0.818. Report alpha = 0.001088 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-6S

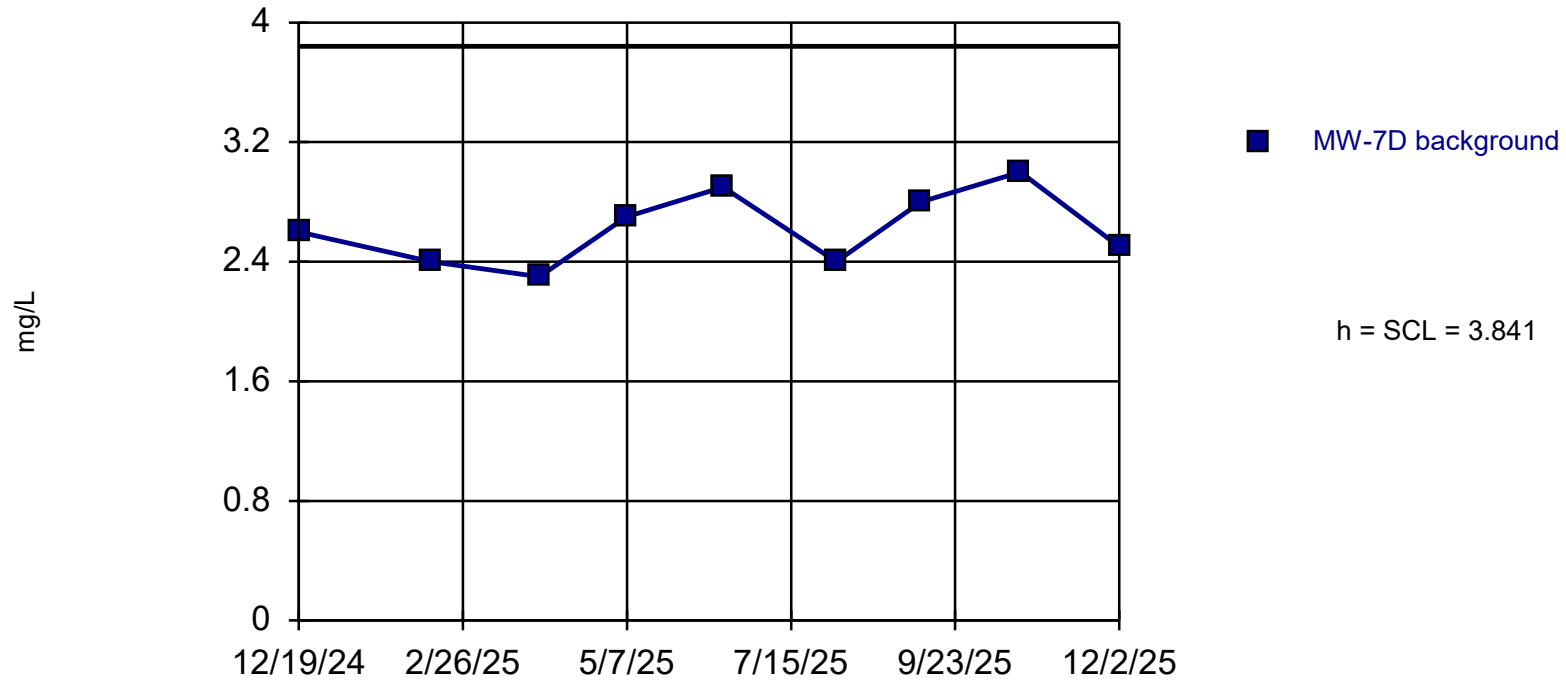


Background Data Summary: Mean=4.43, Std. Dev.=0.3945, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9491, critical = 0.842. Report alpha = 0.000494 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-7D

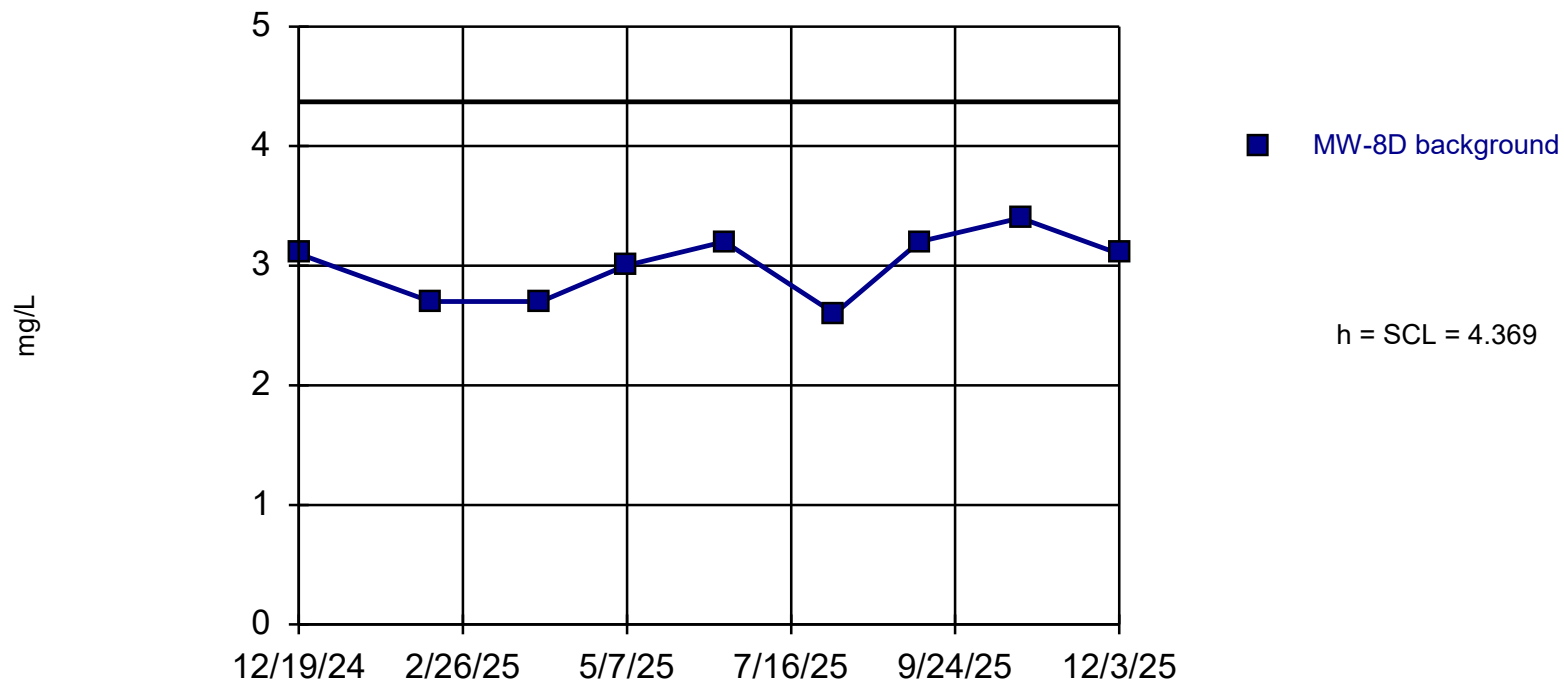


Background Data Summary: Mean=2.622, Std. Dev.=0.2438, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9506, critical = 0.829. Report alpha = 0.000754 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-8D

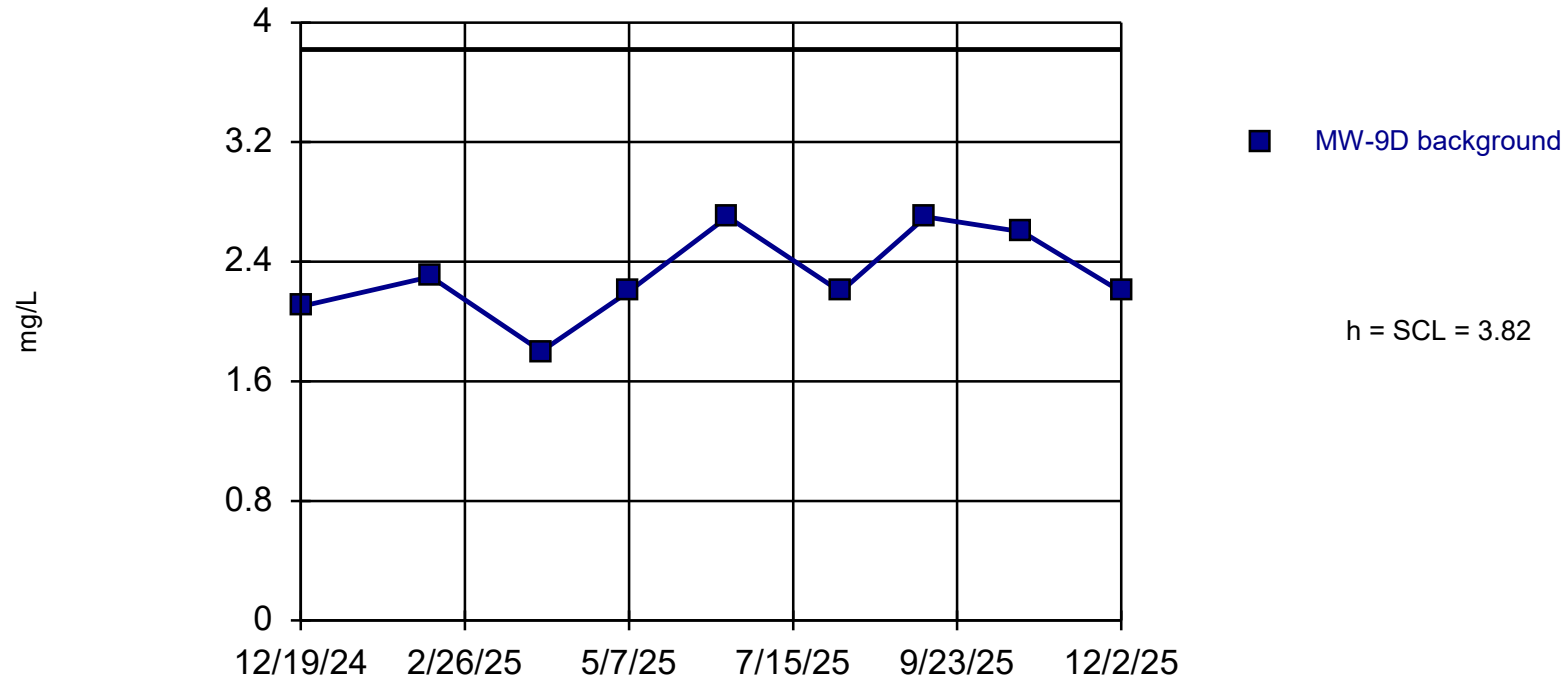


Background Data Summary: Mean=3, Std. Dev.=0.2739, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9164, critical = 0.829. Report alpha = 0.000754 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-9D

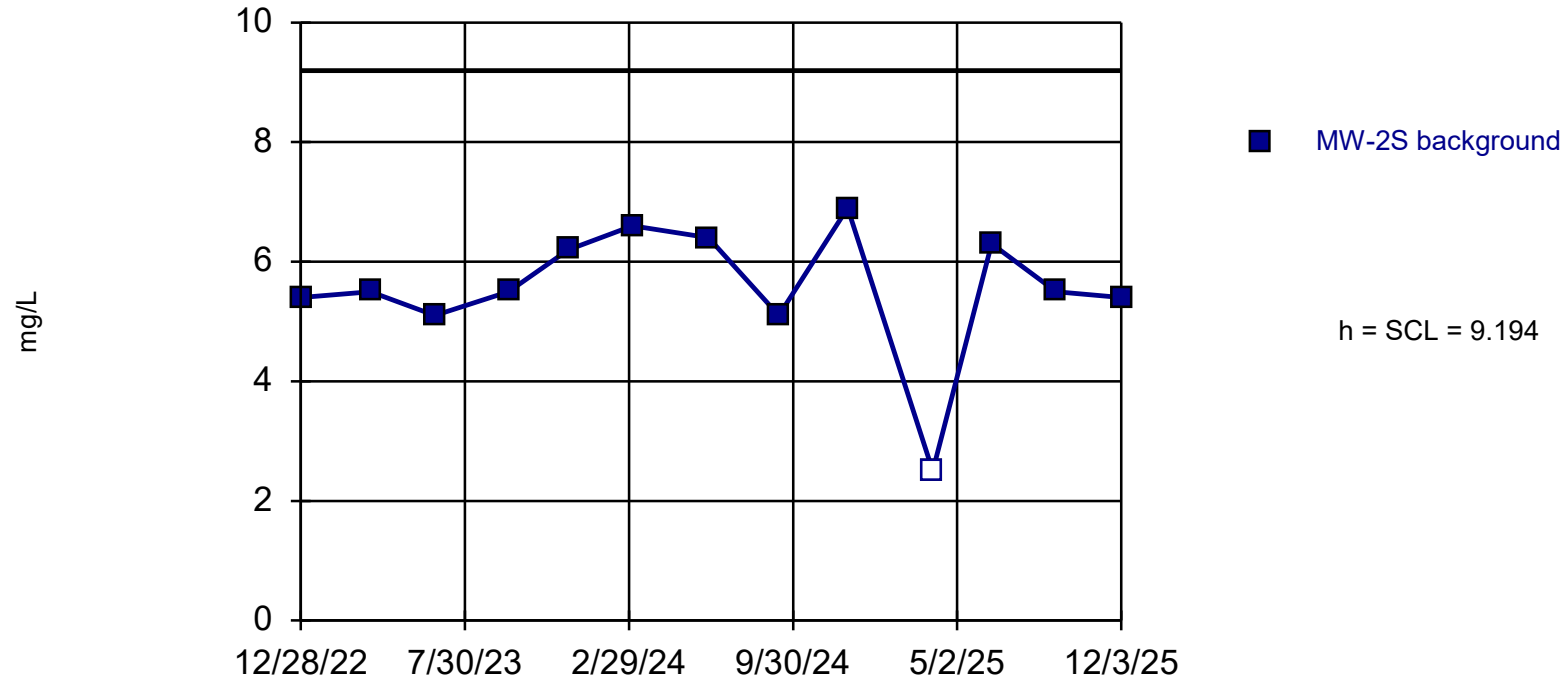


Background Data Summary: Mean=2.311, Std. Dev.=0.3018, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.907, critical = 0.829. Report alpha = 0.000754 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Potassium, Dissolved Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-2S

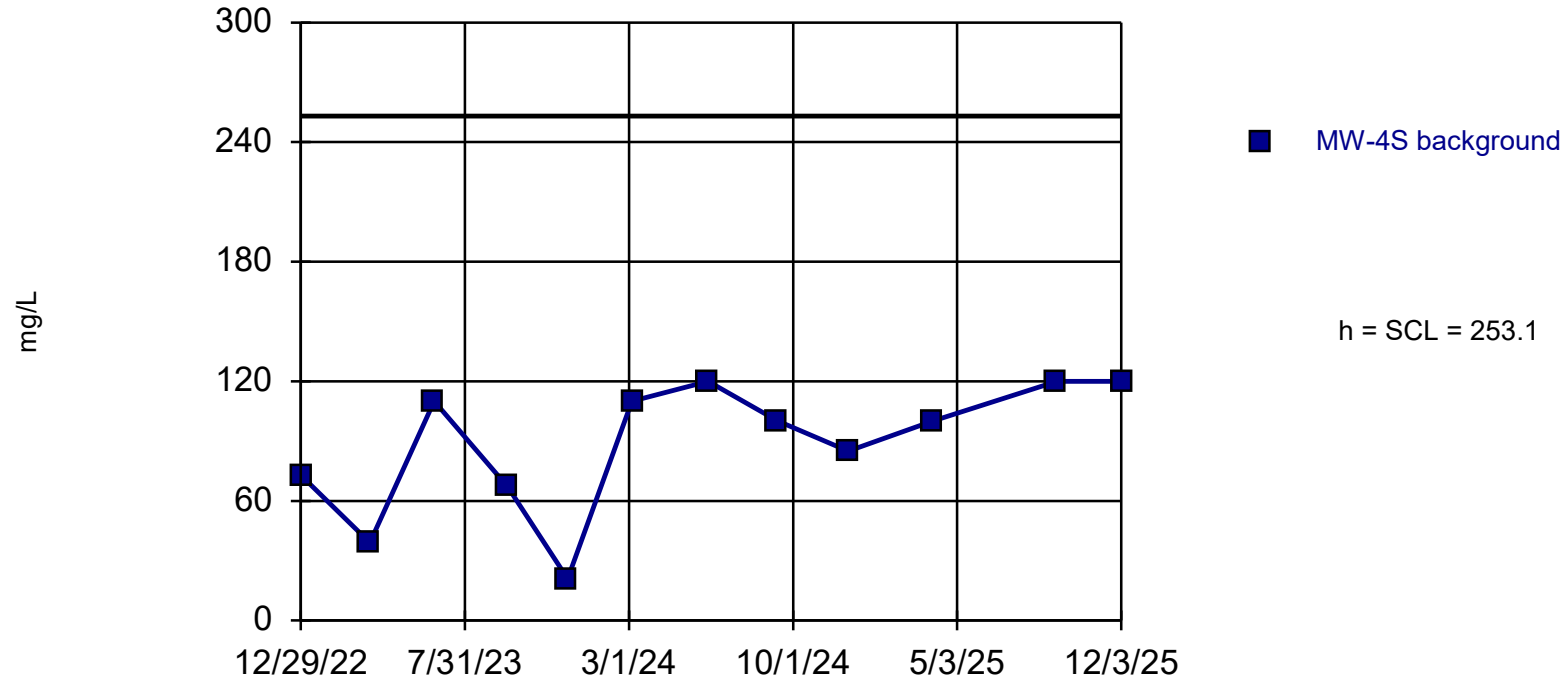


Background Data Summary (based on square transformation): Mean=32.12, Std. Dev.=10.48, n=13, 7.692% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.899, critical = 0.866. Report alpha = 0.000182 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Sulfate Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-4S

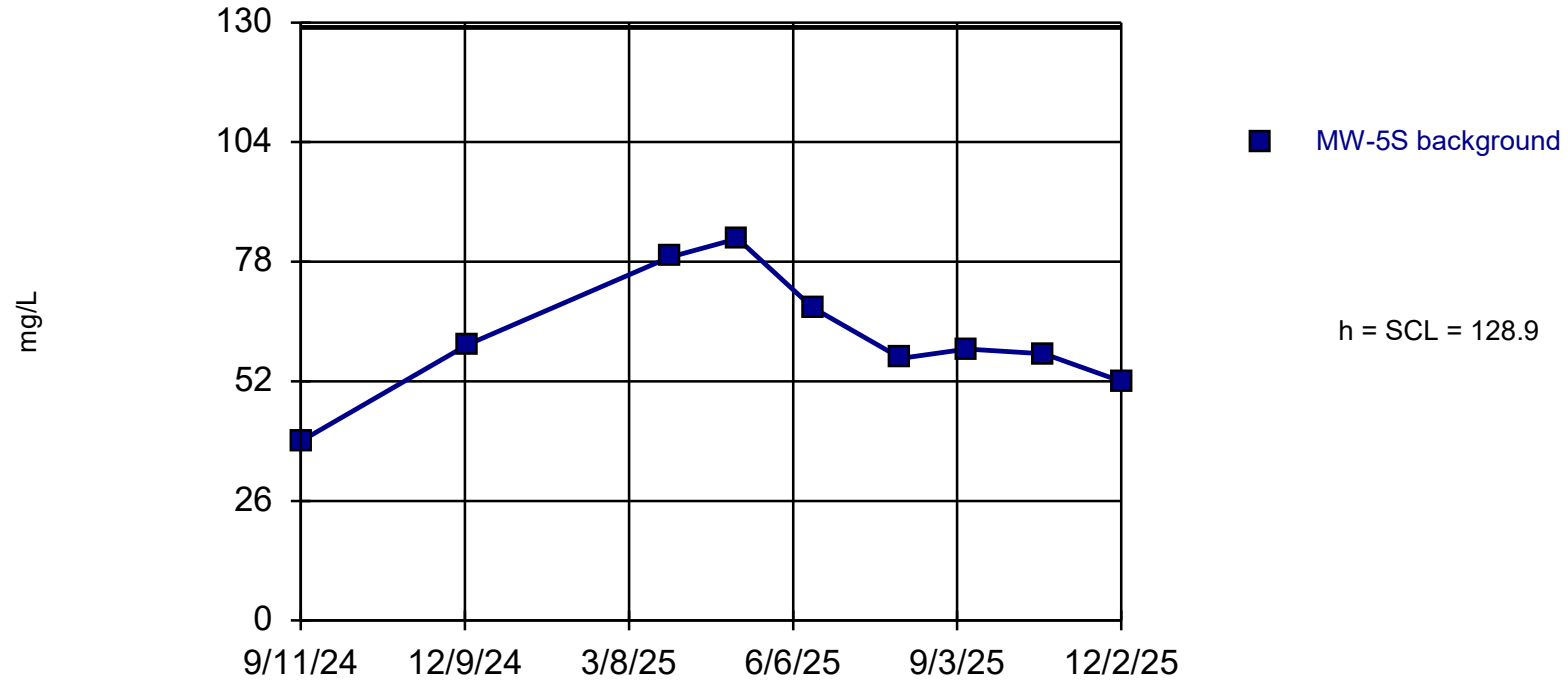


Background Data Summary: Mean=88.75, Std. Dev.=32.87, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.871, critical = 0.859. Report alpha = 0.000258 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Sulfate Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-5S

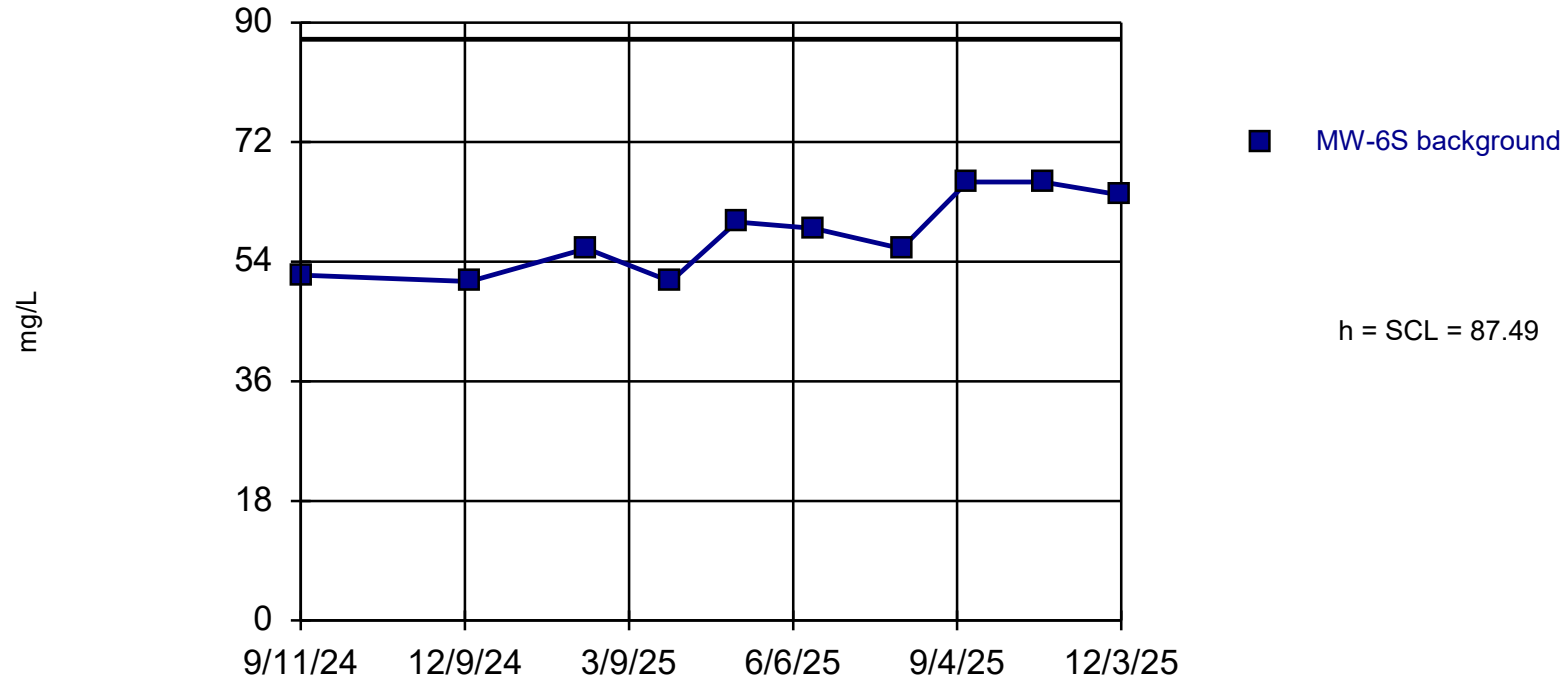


Background Data Summary: Mean=61.67, Std. Dev.=13.45, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9469, critical = 0.829. Report alpha = 0.000812 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Sulfate Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-6S

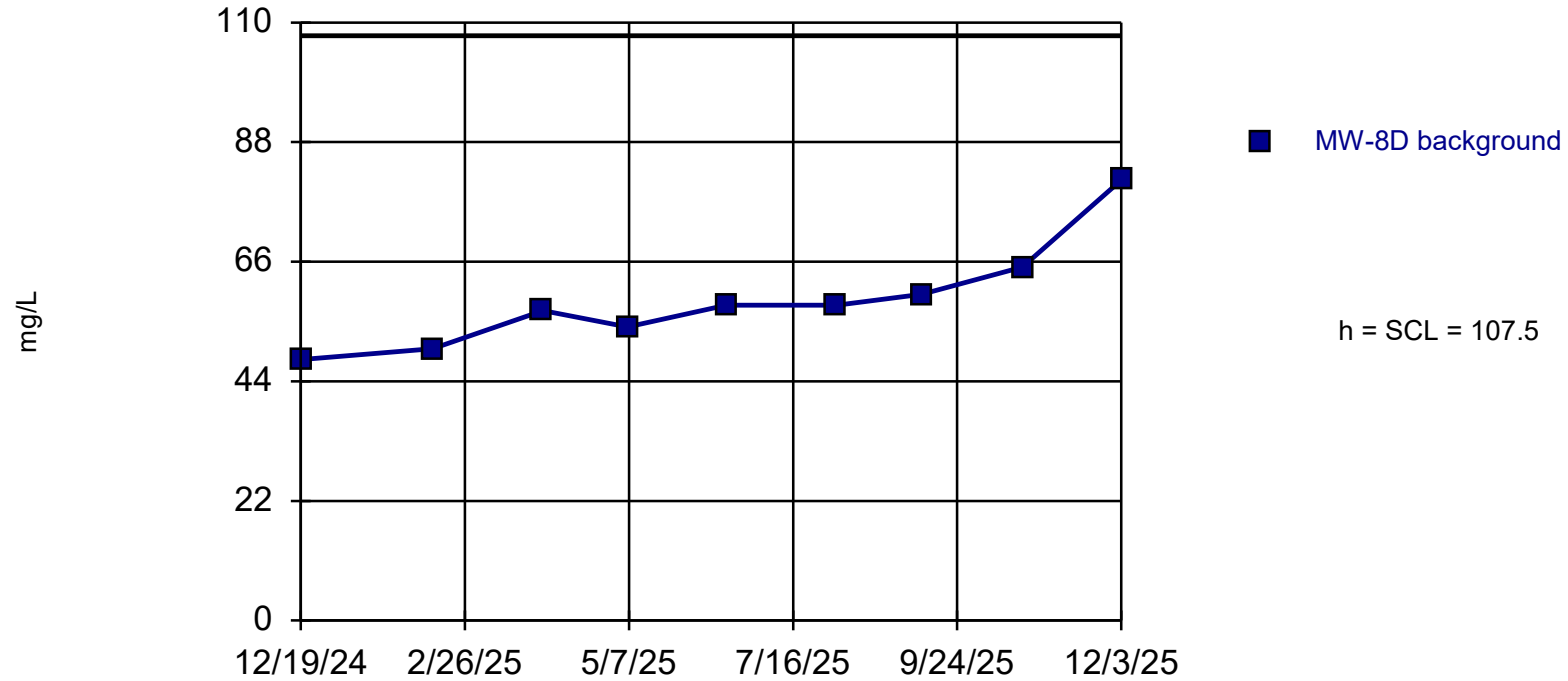


Background Data Summary: Mean=58.1, Std. Dev.=5.877, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8996, critical = 0.842. Report alpha = 0.000524 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Sulfate Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-8D

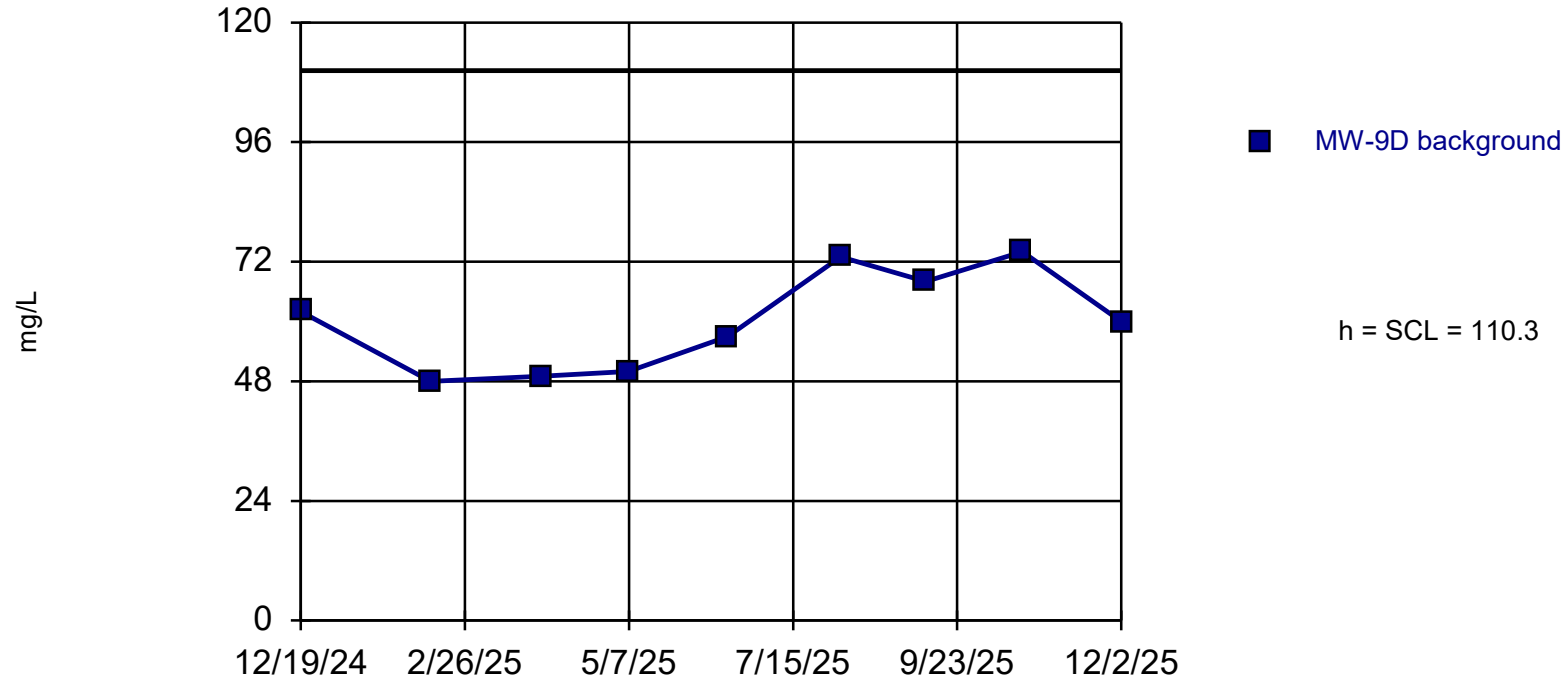


Background Data Summary: Mean=59, Std. Dev.=9.708, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8676, critical = 0.829. Report alpha = 0.000722 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Sulfate Analysis Run 3/30/2026 5:25 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-9D

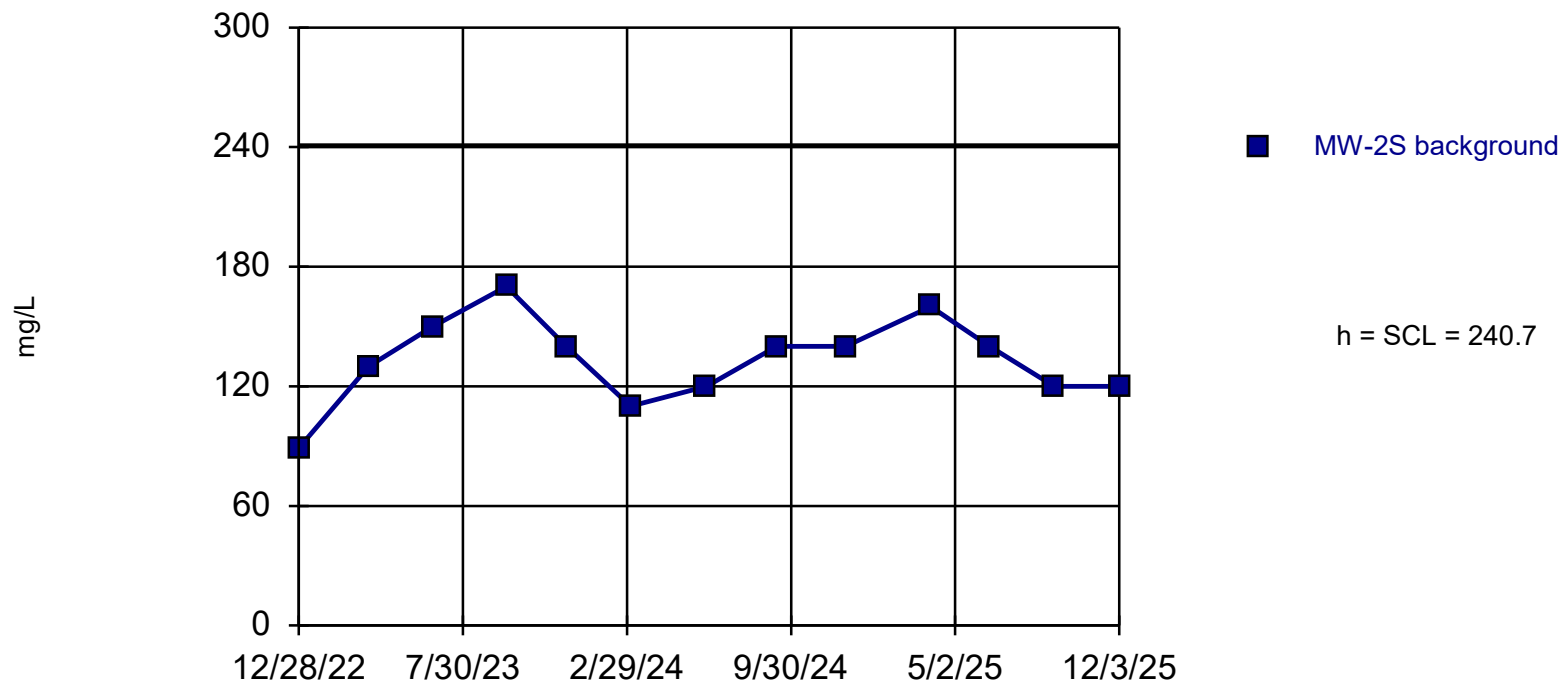


Background Data Summary: Mean=60.11, Std. Dev.=10.04, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9118, critical = 0.829. Report alpha = 0.000722 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Sulfate Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-2S



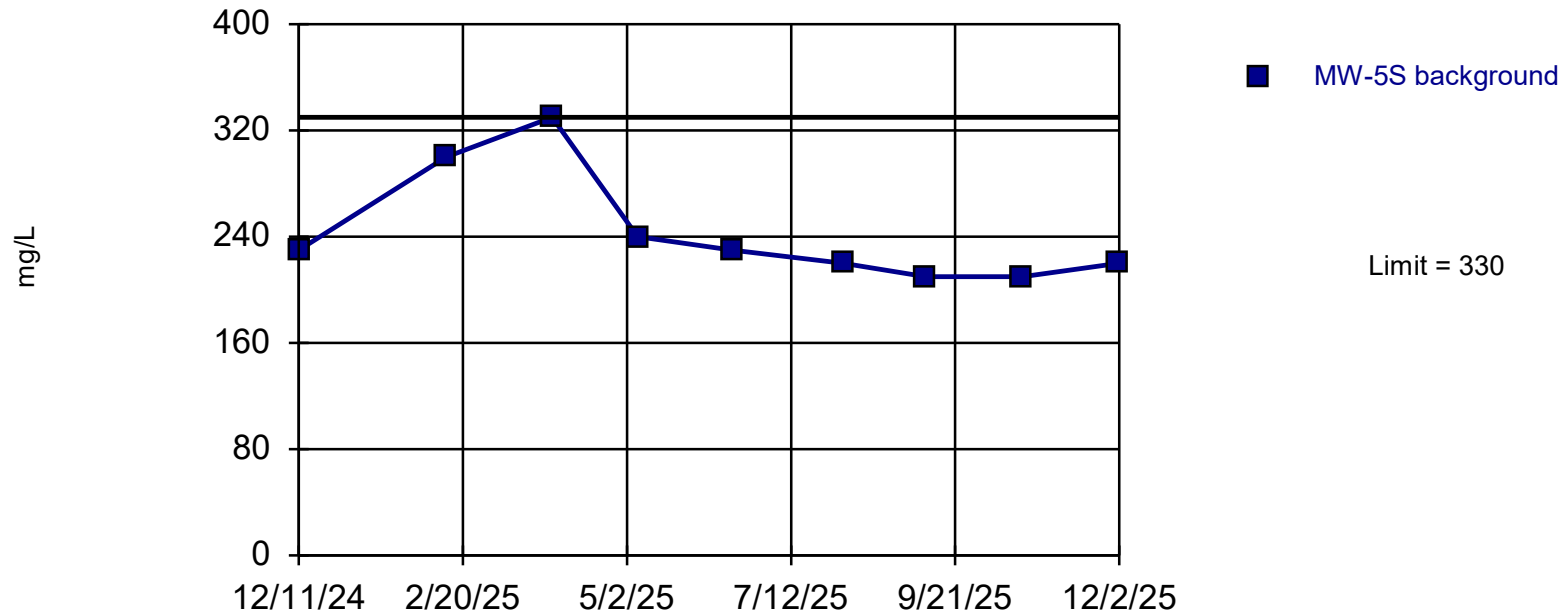
Background Data Summary: Mean=133, Std. Dev.=21.53, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9688, critical = 0.866. Report alpha = 0.000206 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: TDS Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-5S



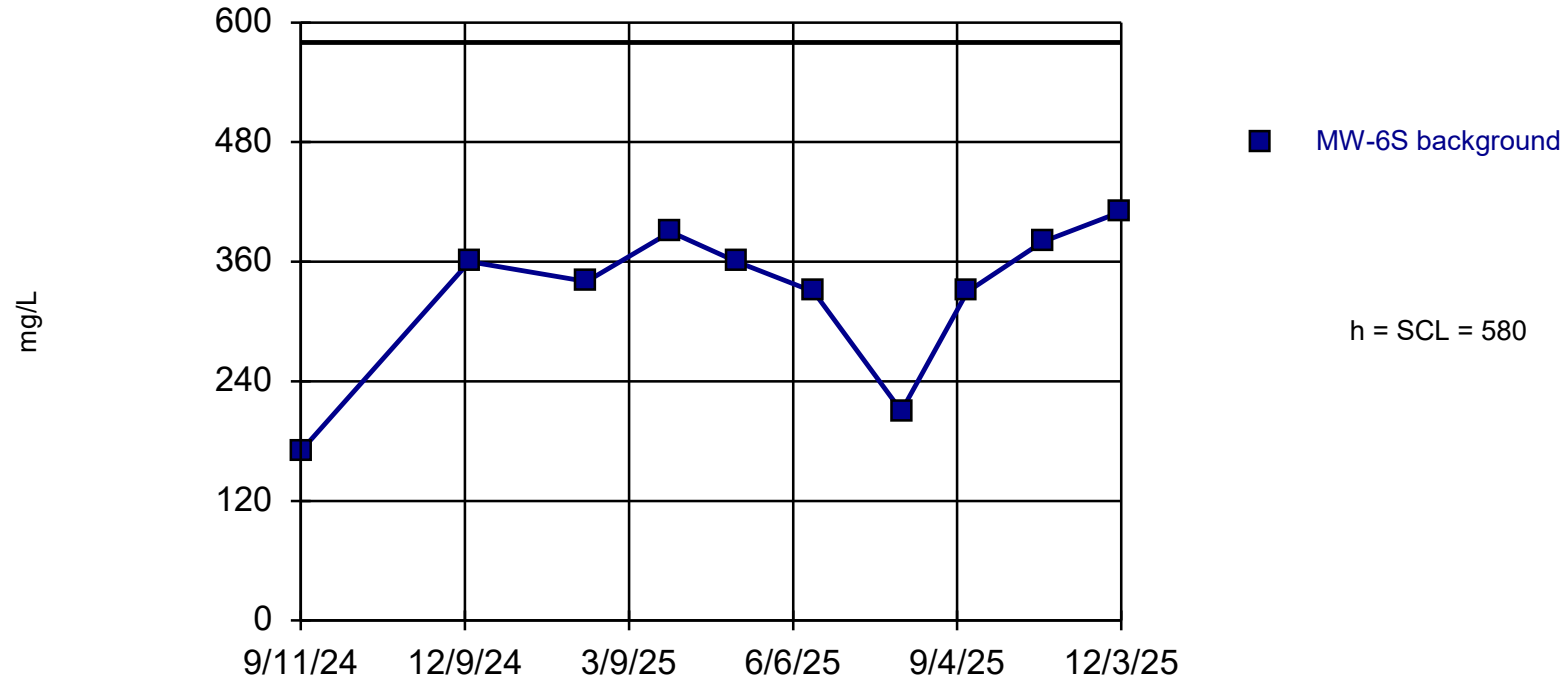
Non-parametric test used in lieu of control chart because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.06656. Individual comparison alpha = 0.01707 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: TDS Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-6S



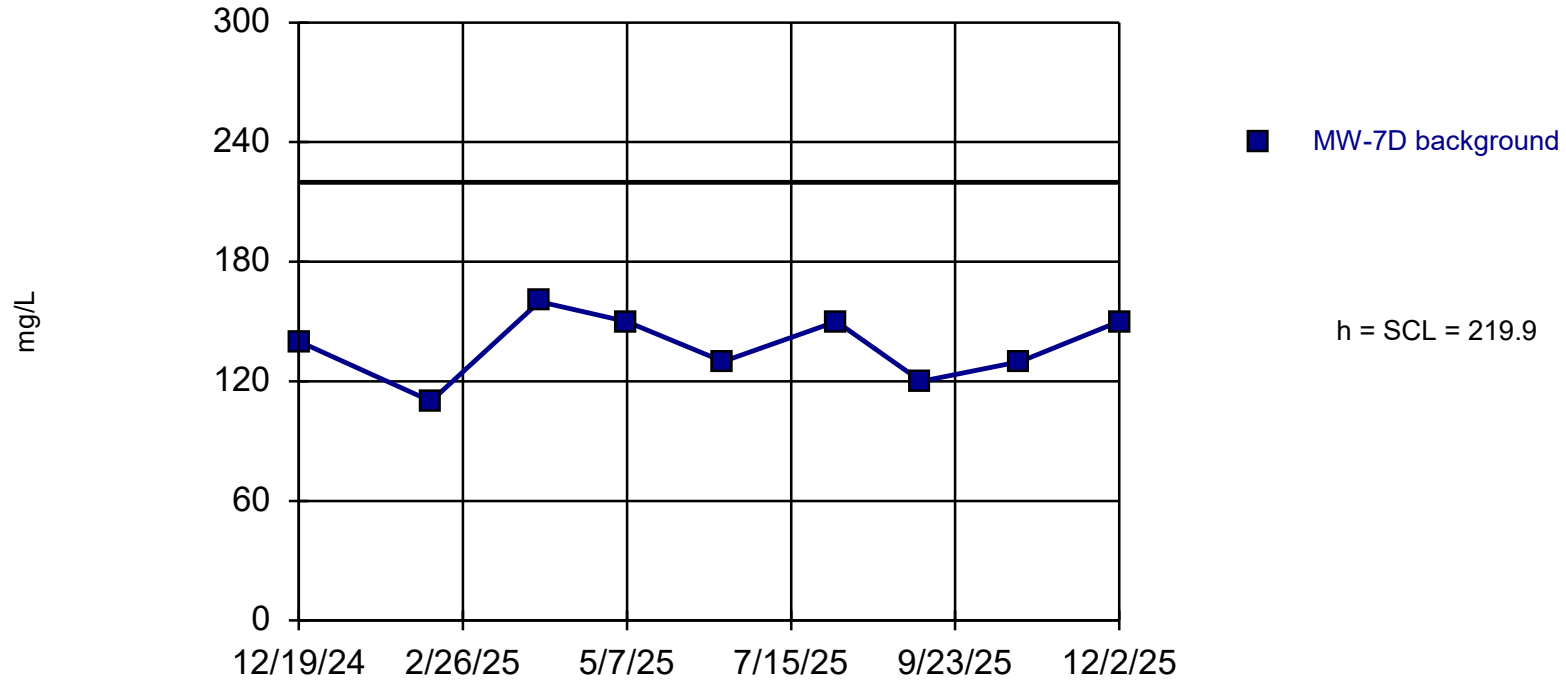
Background Data Summary (based on square transformation): Mean=113020, Std. Dev.=44674, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8856, critical = 0.842. Report alpha = 0.000532 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: TDS Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-7D

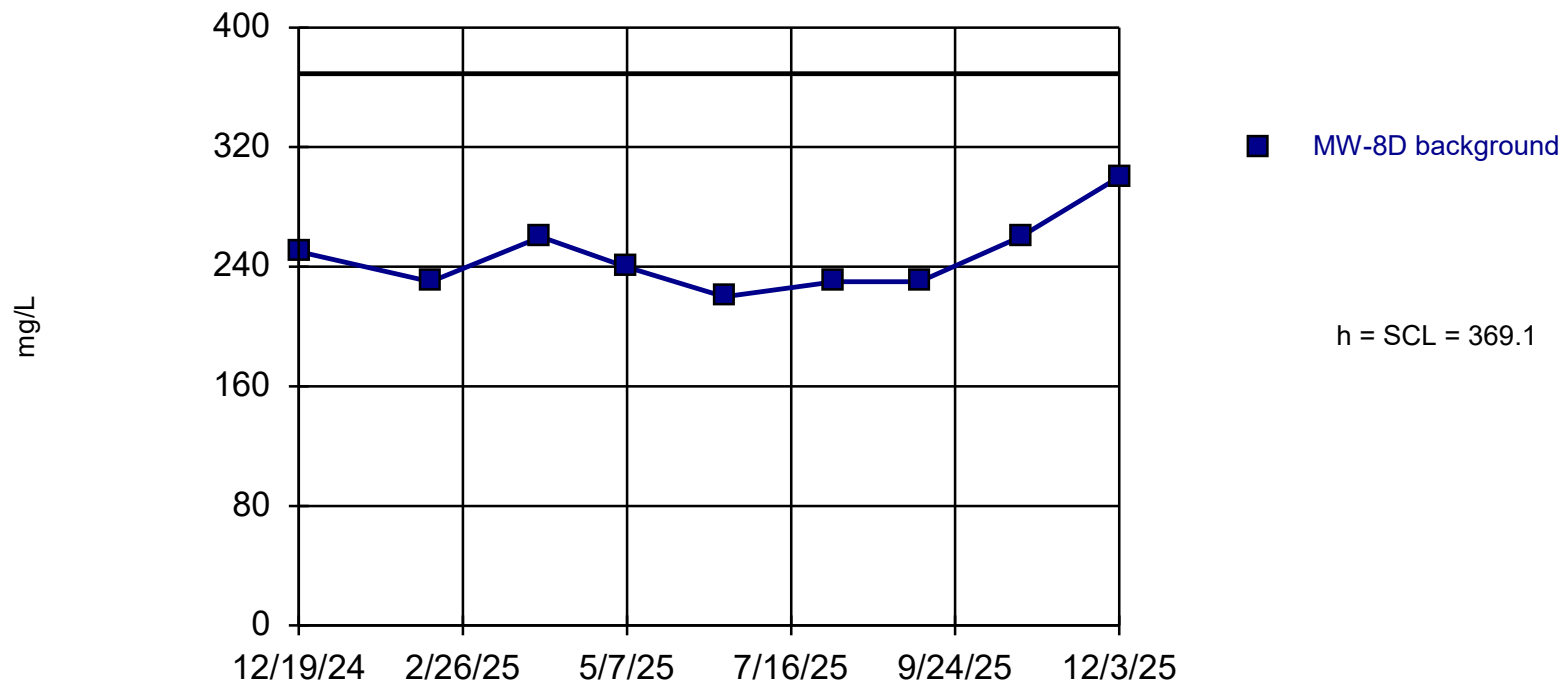


Background Data Summary: Mean=137.8, Std. Dev.=16.41, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9402, critical = 0.829. Report alpha = 0.000736 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: TDS Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-8D



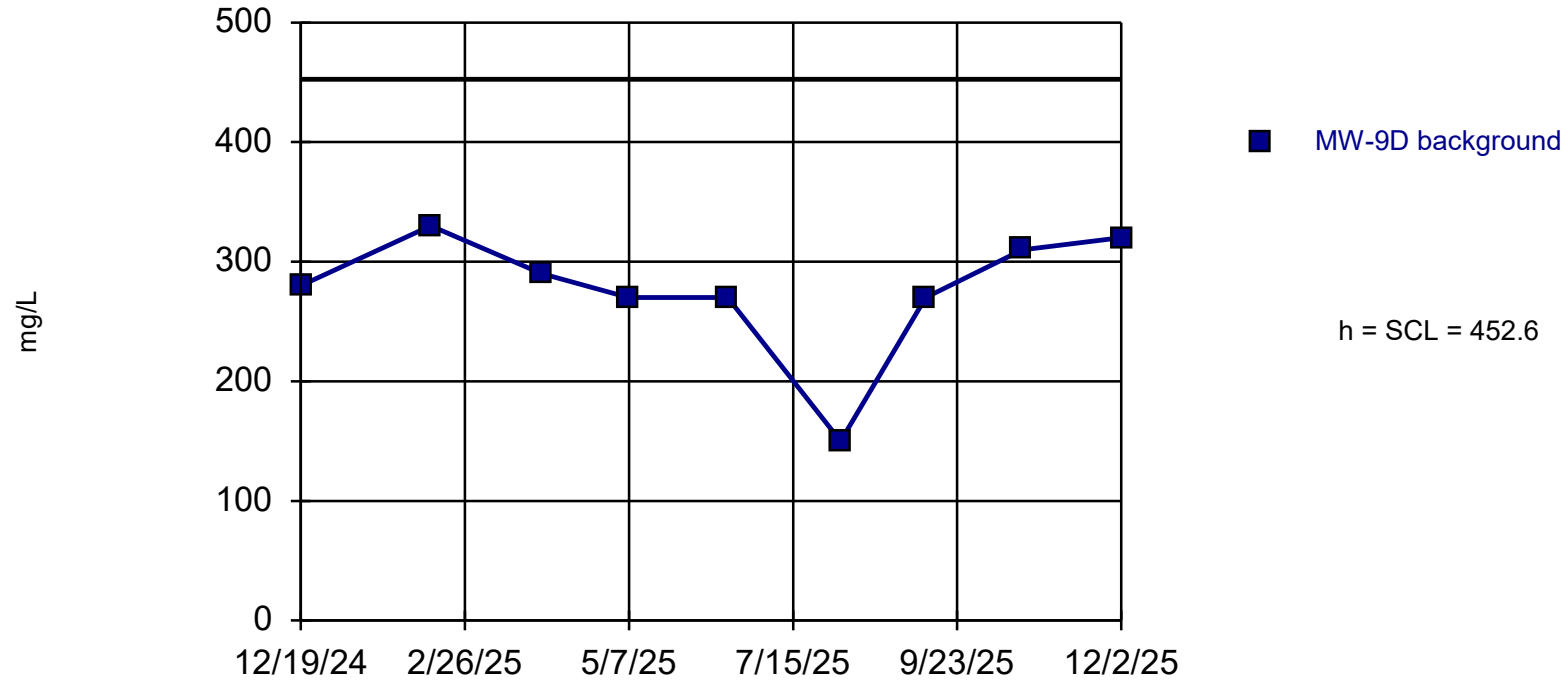
Background Data Summary: Mean=246.7, Std. Dev.=24.49, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.871, critical = 0.829. Report alpha = 0.000736 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: TDS Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-9D

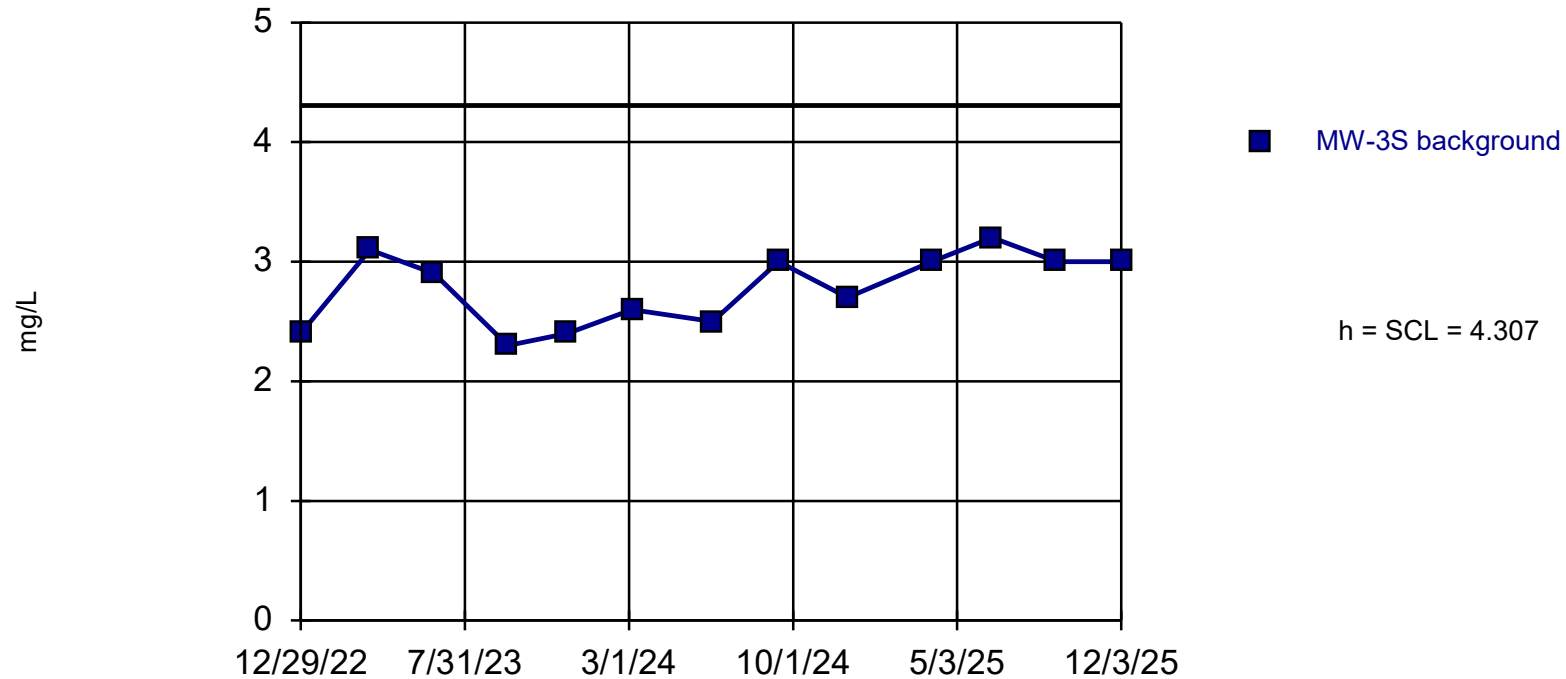


Background Data Summary (based on square transformation): Mean=79011, Std. Dev.=25160, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8624, critical = 0.829. Report alpha = 0.000736 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: TDS Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-4Q25
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-3S

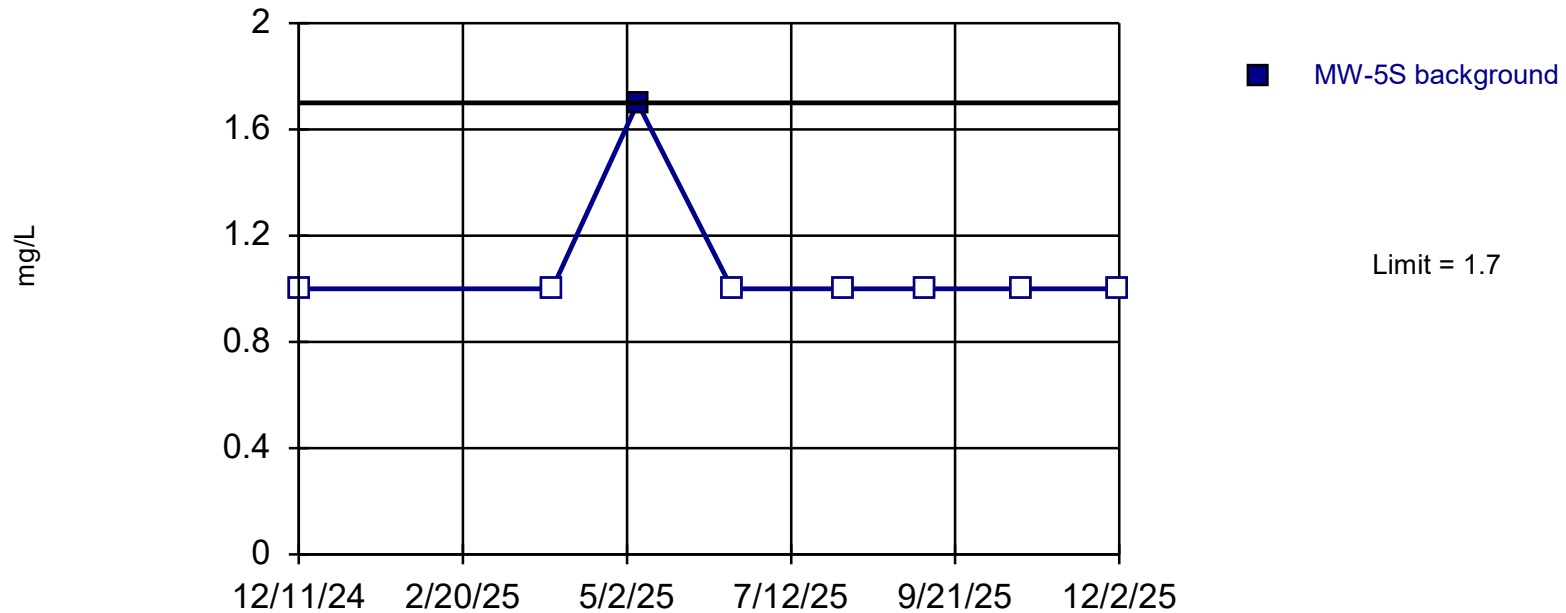


Background Data Summary: Mean=2.777, Std. Dev.=0.3059, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8998, critical = 0.866. Report alpha = 0.000214 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Total Organic Carbon Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Prediction Limit

Intrawell Non-parametric, MW-5S

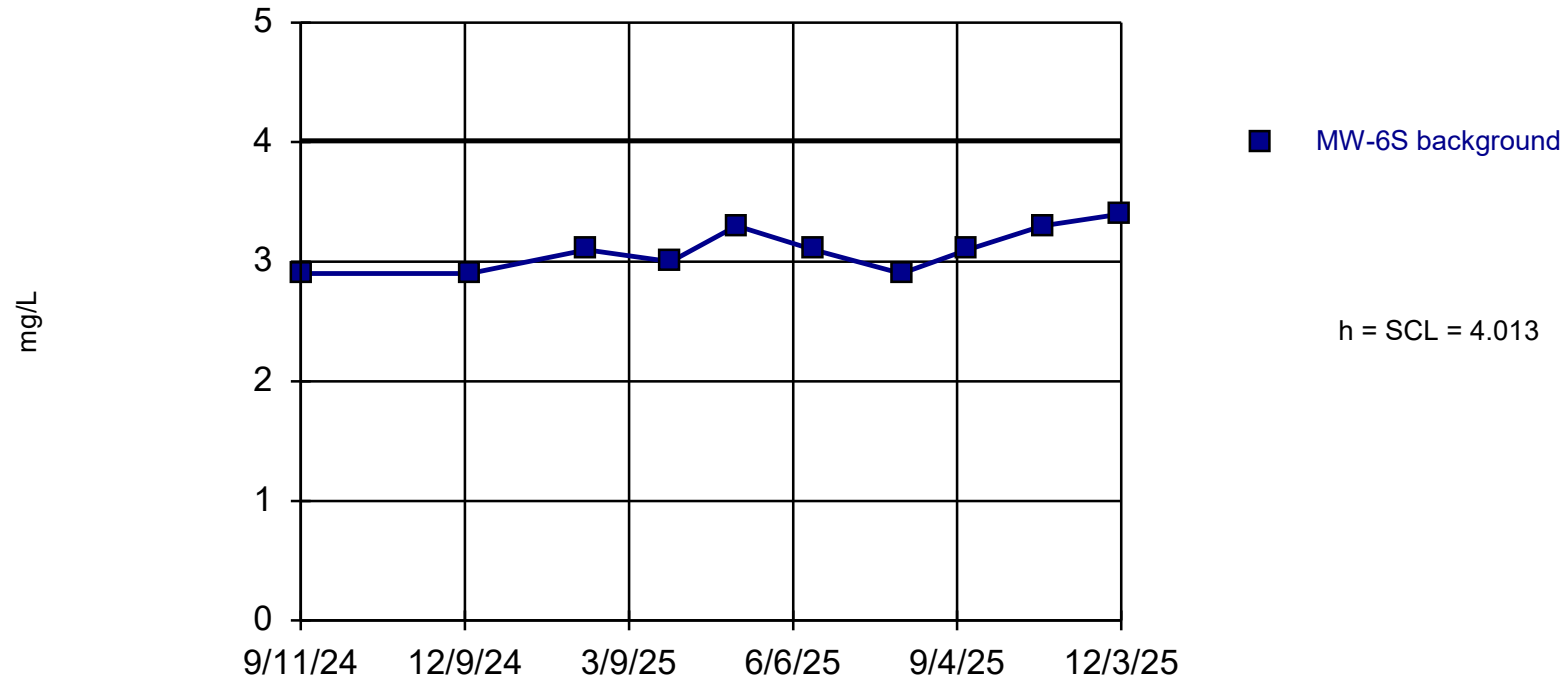


Non-parametric test used in lieu of control chart because non-detects exceed user-adjustable maximum of 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.07802. Individual comparison alpha = 0.0201 (1 of 2). Assumes 1 future value. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Total Organic Carbon Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-6S

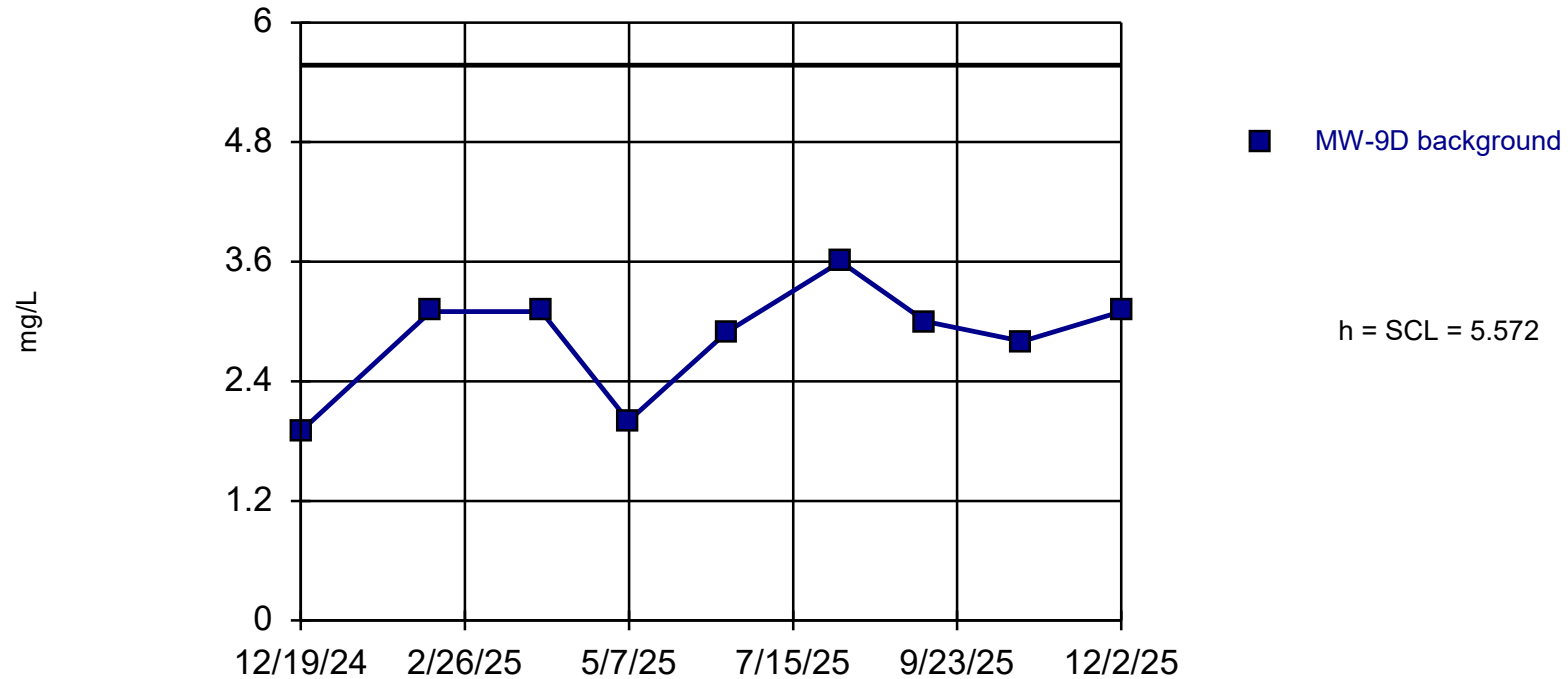


Background Data Summary: Mean=3.1, Std. Dev.=0.1826, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8891, critical = 0.842. Report alpha = 0.000442 (assuming 1 future value). Dates ending 12/3/2025 used for control stats. Standardized h=5, SCL=5.

Constituent: Total Organic Carbon Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Control Chart

MW-9D



Background Data Summary: Mean=2.833, Std. Dev.=0.5477, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8592, critical = 0.829. Report alpha = 0.000722 (assuming 1 future value). Dates ending 12/2/2025 used for control stats. Standardized h=5, SCL=5.

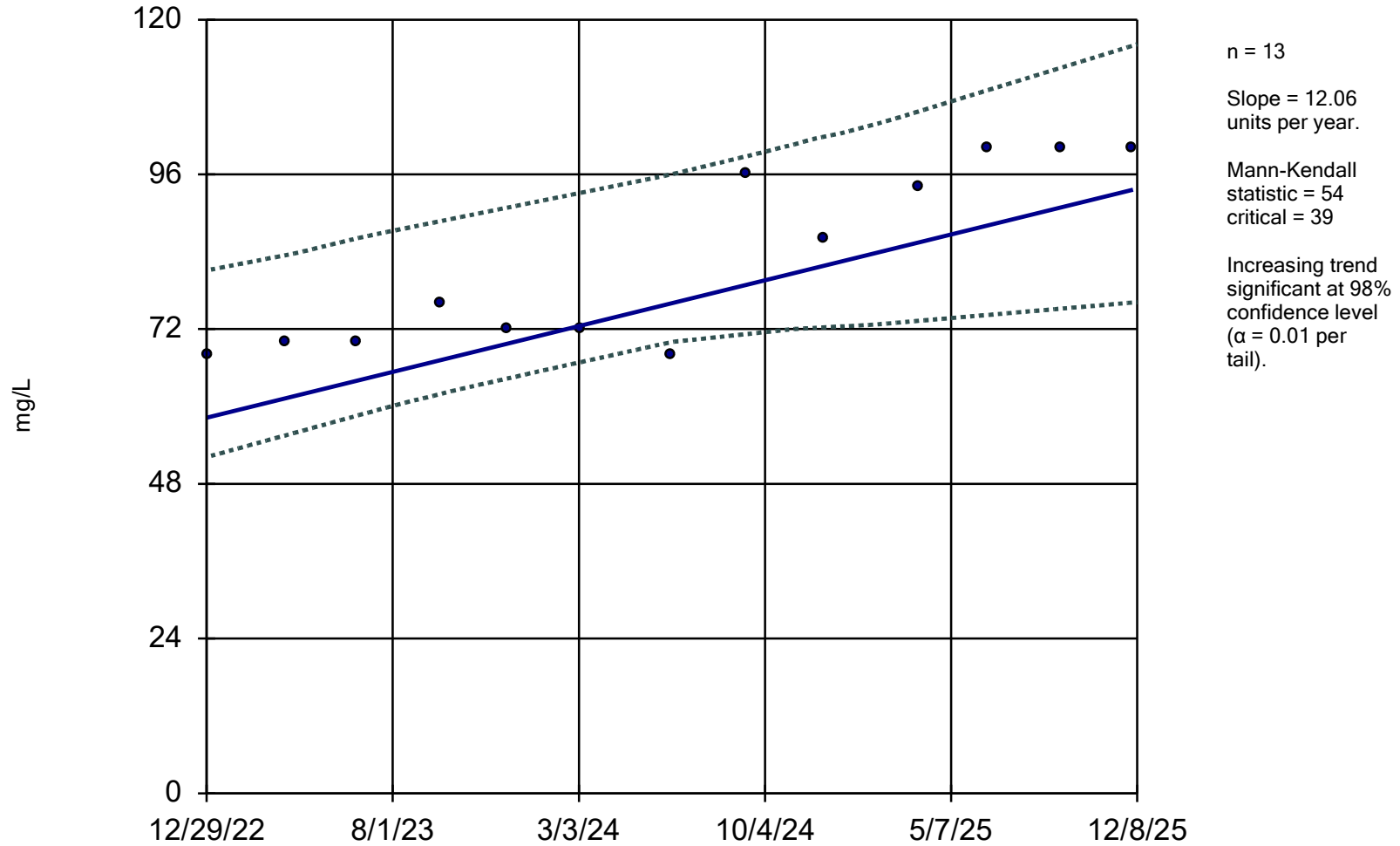
Constituent: Total Organic Carbon Analysis Run 3/30/2026 5:26 PM View: 2026-2027 UPLs & CCs 4Q22-
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Attachment H

Trend Evaluation for
Assessment Monitoring

Sen's Slope and 95% Confidence Band

MW-3S

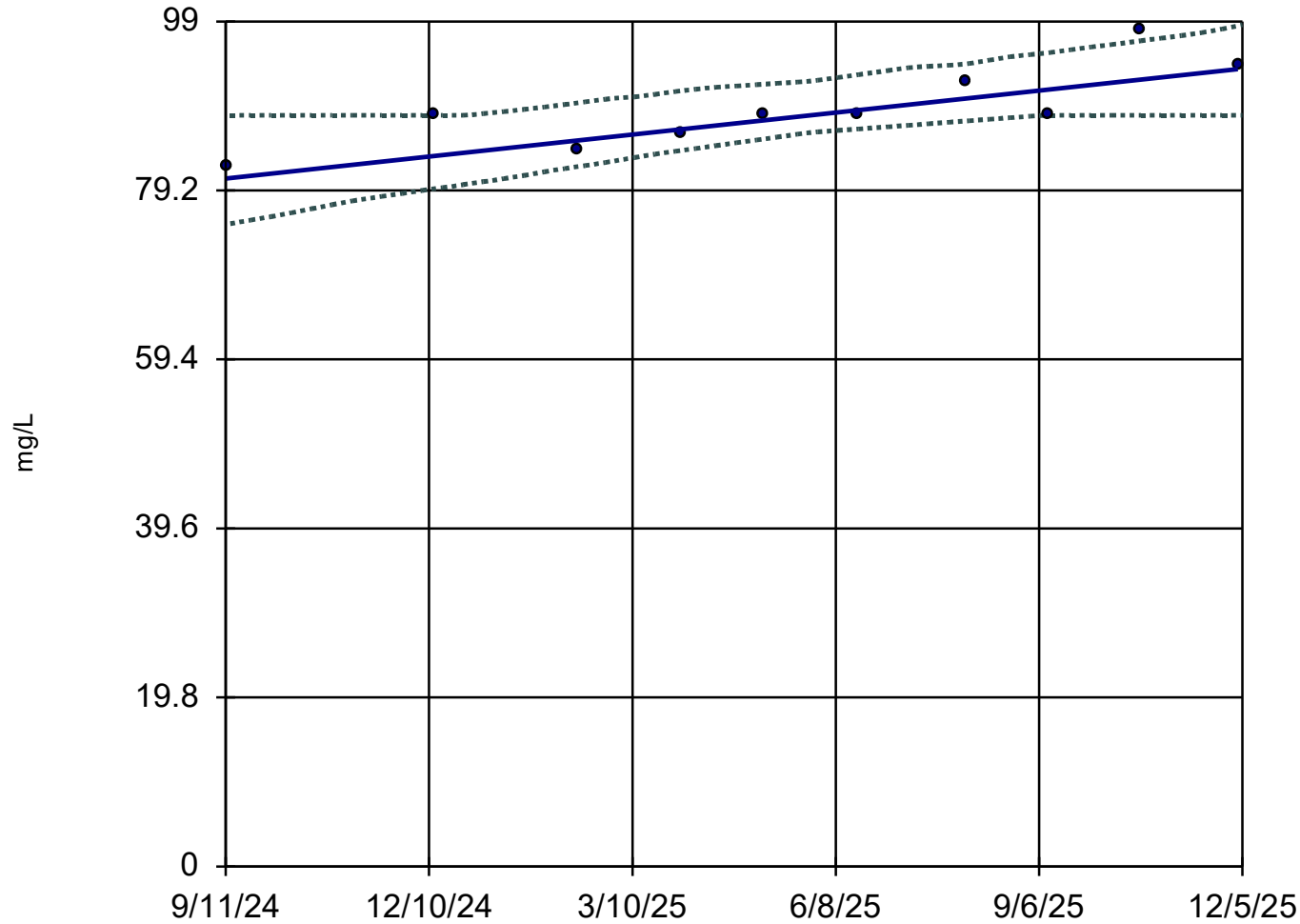


Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

MW-6S



n = 10

Slope = 10.43
units per year.

Mann-Kendall
statistic = 31
critical = 27

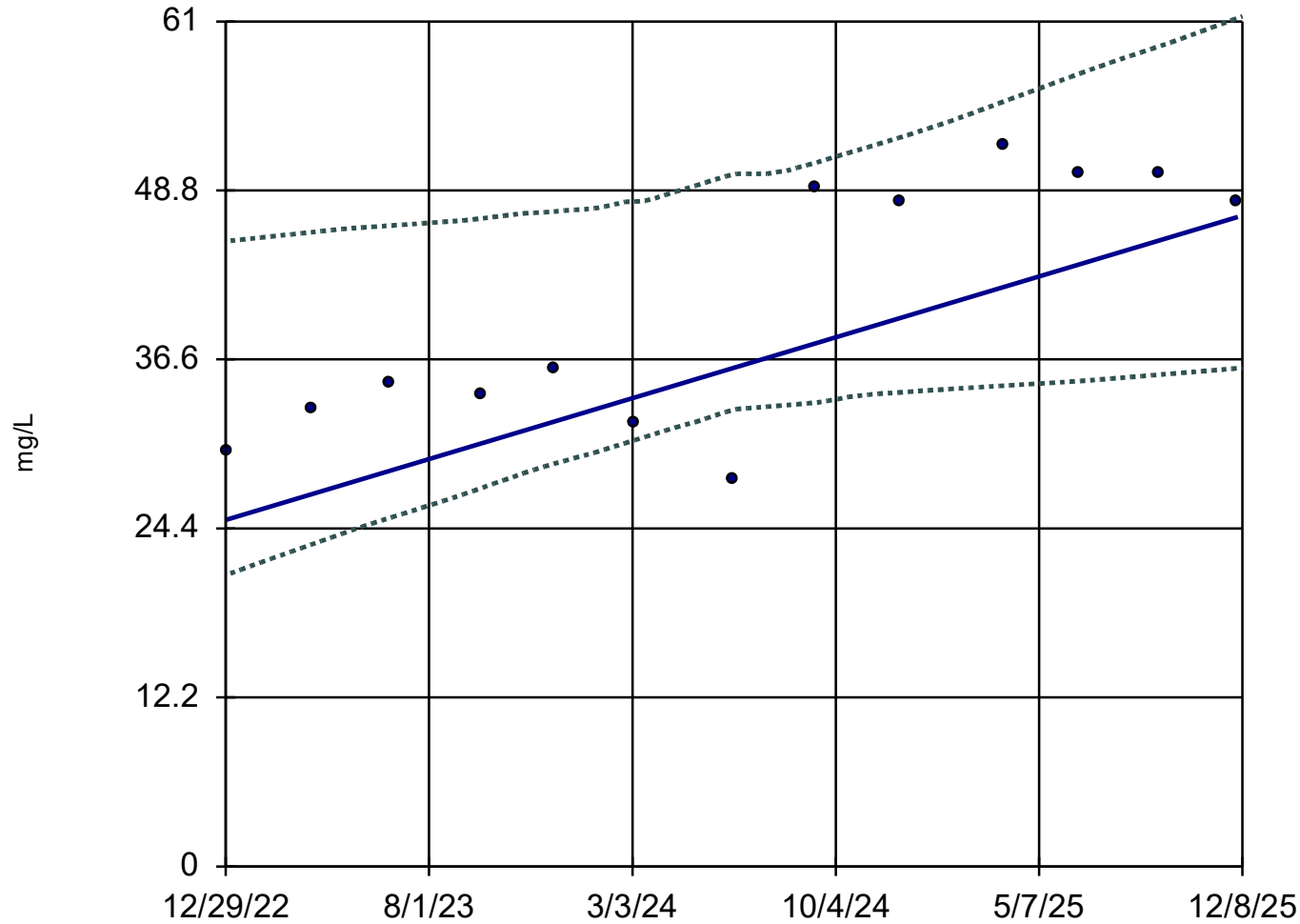
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Alkalinity, Total Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

MW-3S



n = 13

Slope = 7.462
units per year.

Mann-Kendall
statistic = 40
critical = 39

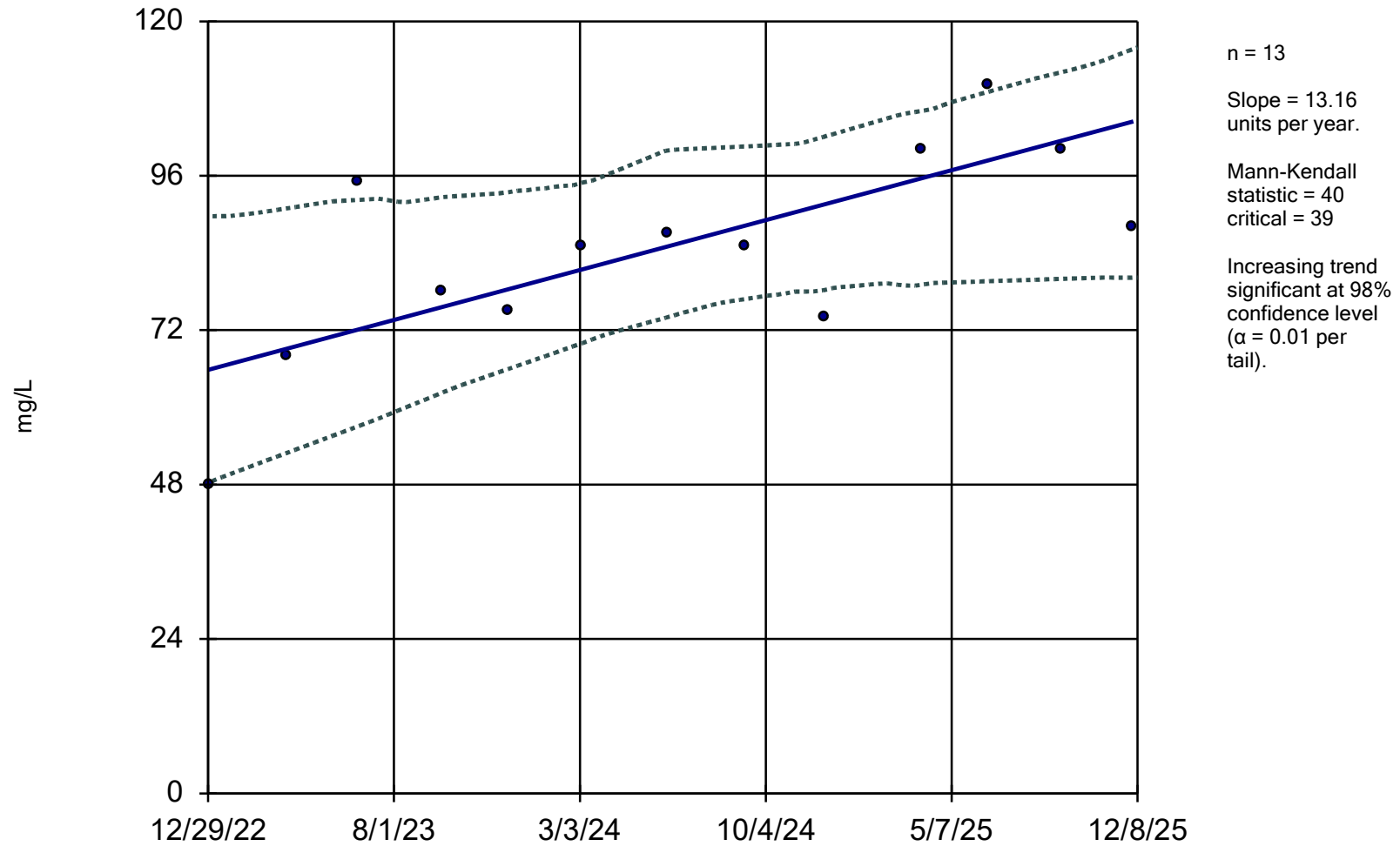
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

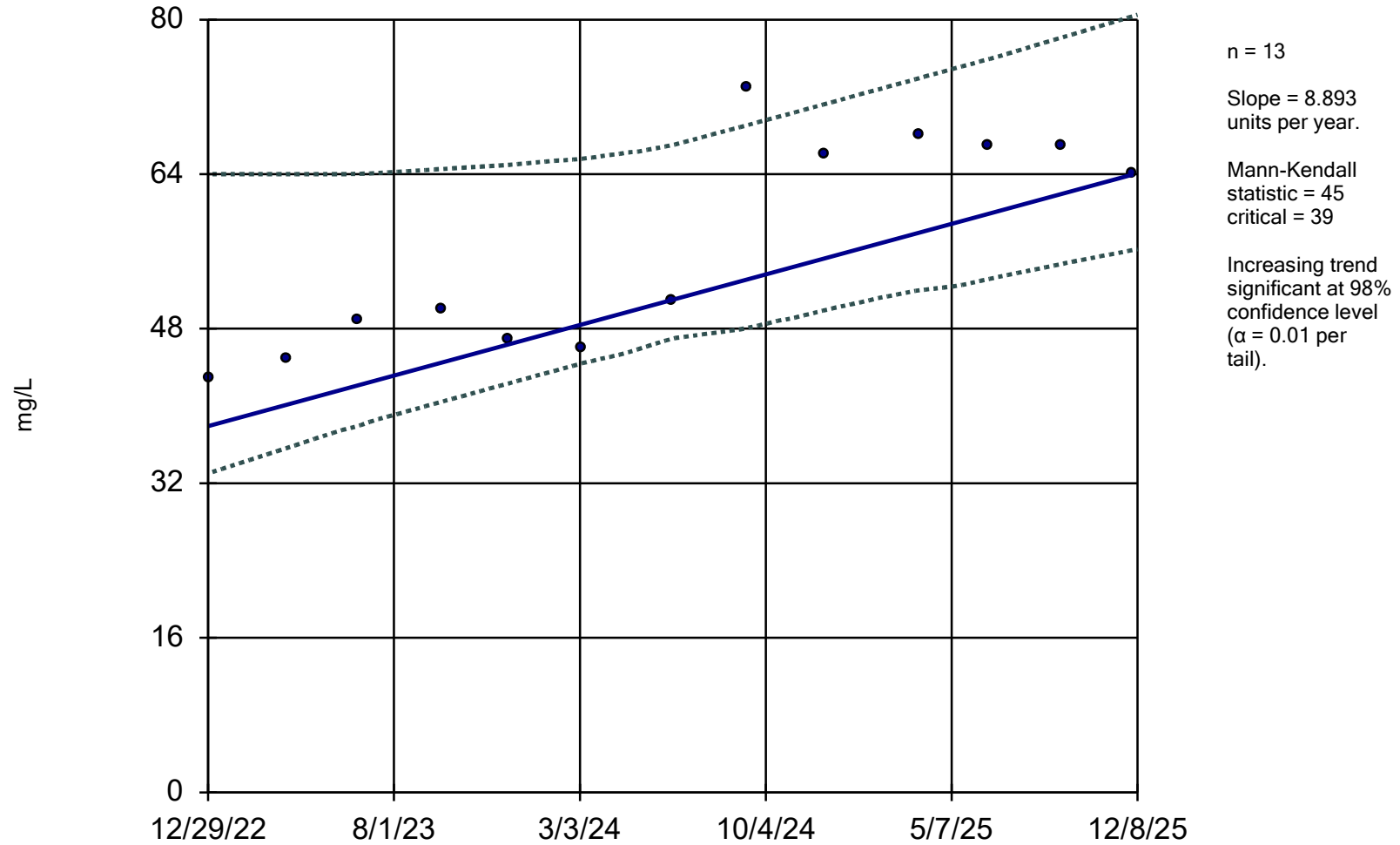
MW-4S



Constituent: Calcium, Dissolved Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

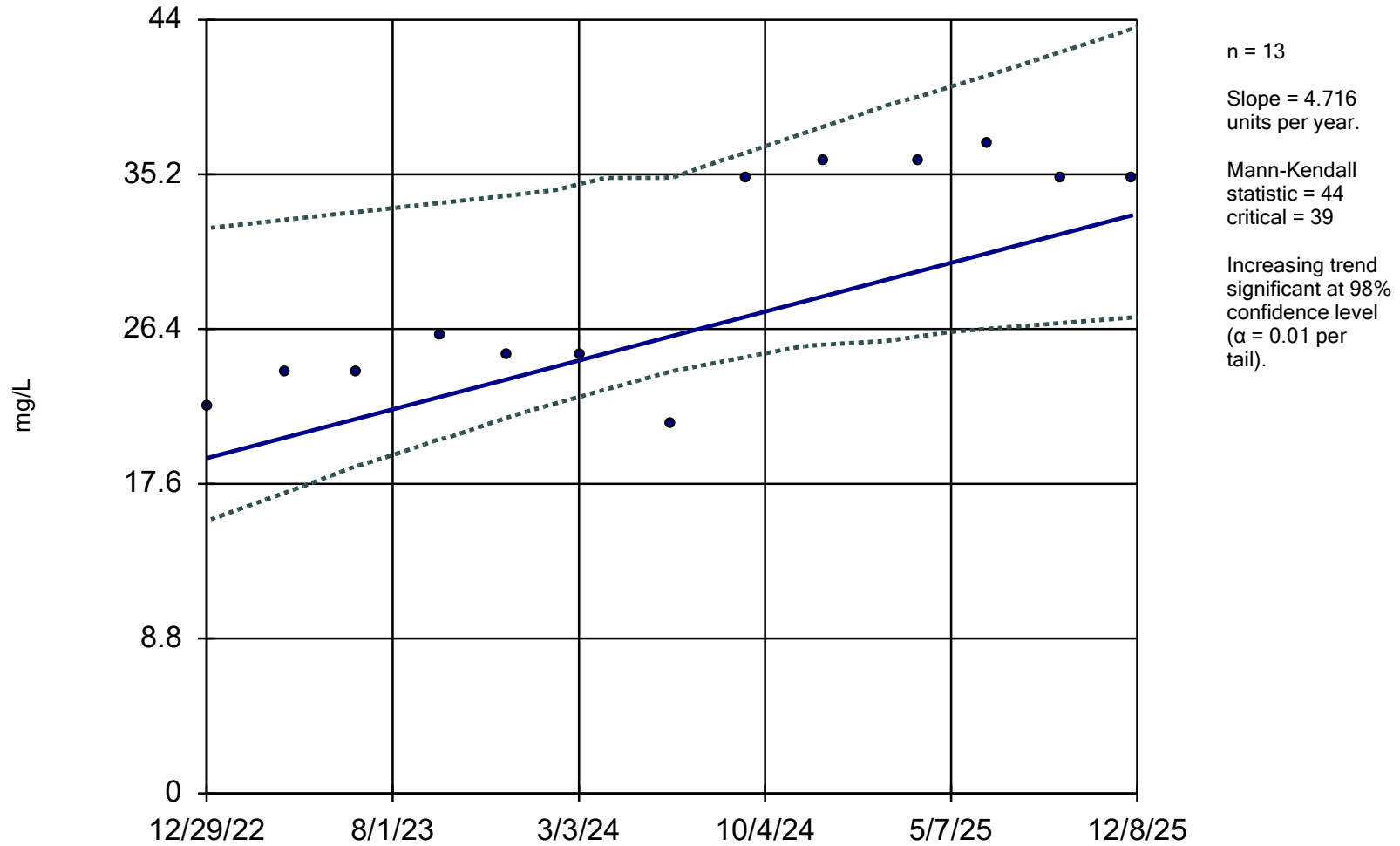
MW-3S



Constituent: Chloride Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

MW-3S

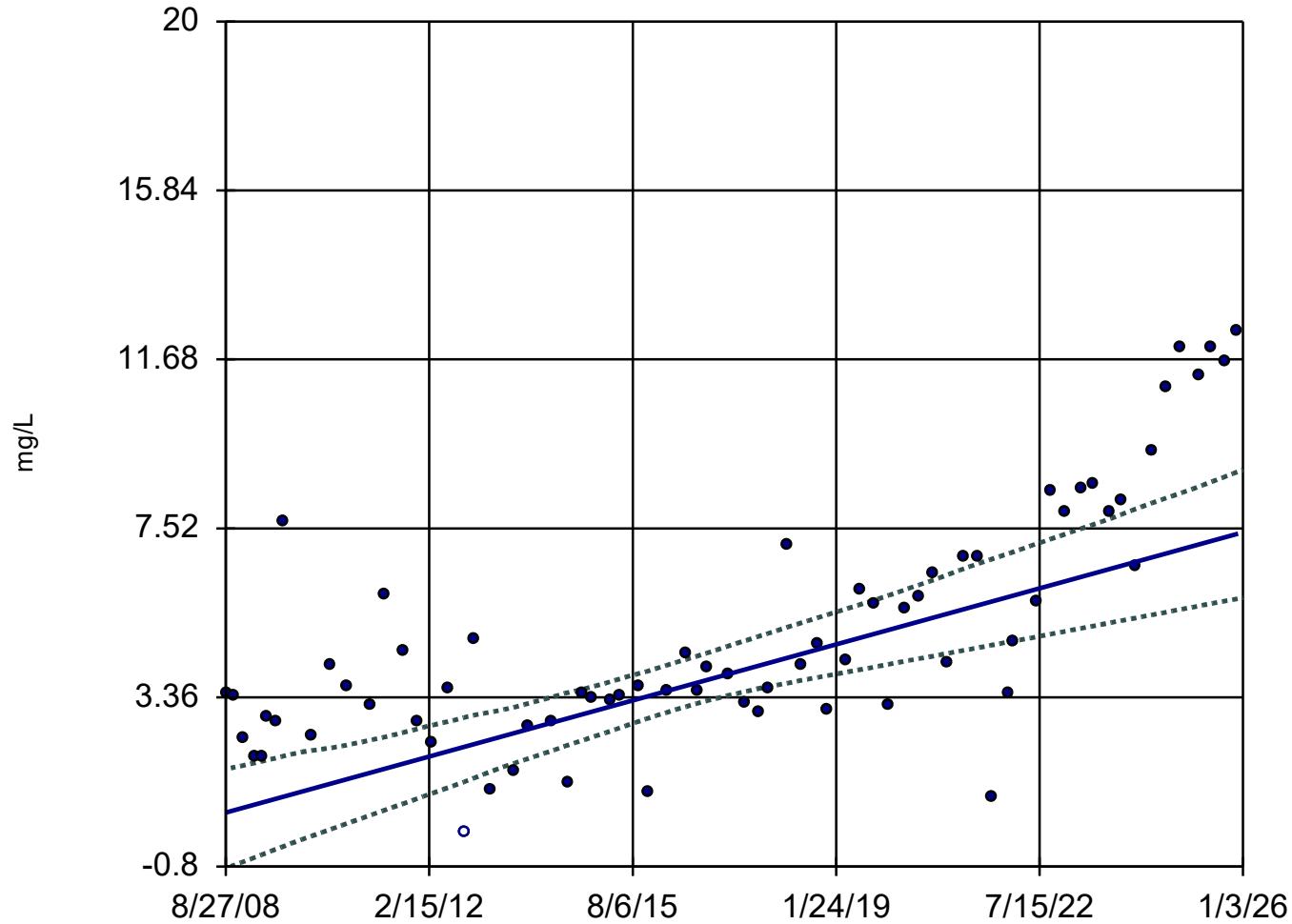


Constituent: Magnesium, Dissolved Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

MW-3S



n = 70

Slope = 0.3972
units per year.

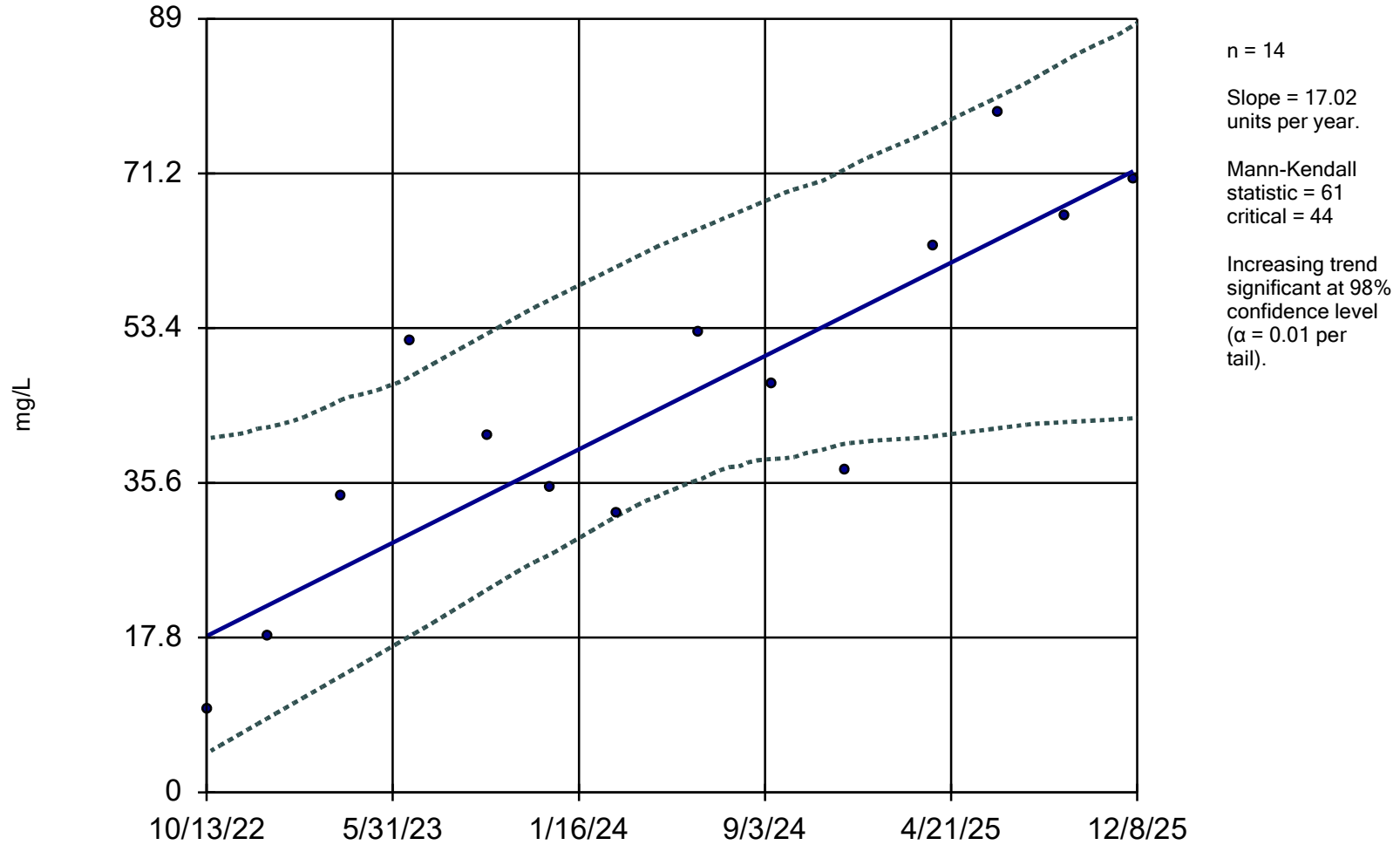
Mann-Kendall
normal approx. =
6.768
critical = 2.33

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Nitrate Analysis Run 3/30/2026 5:42 PM View: 2022-2026 Trends
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

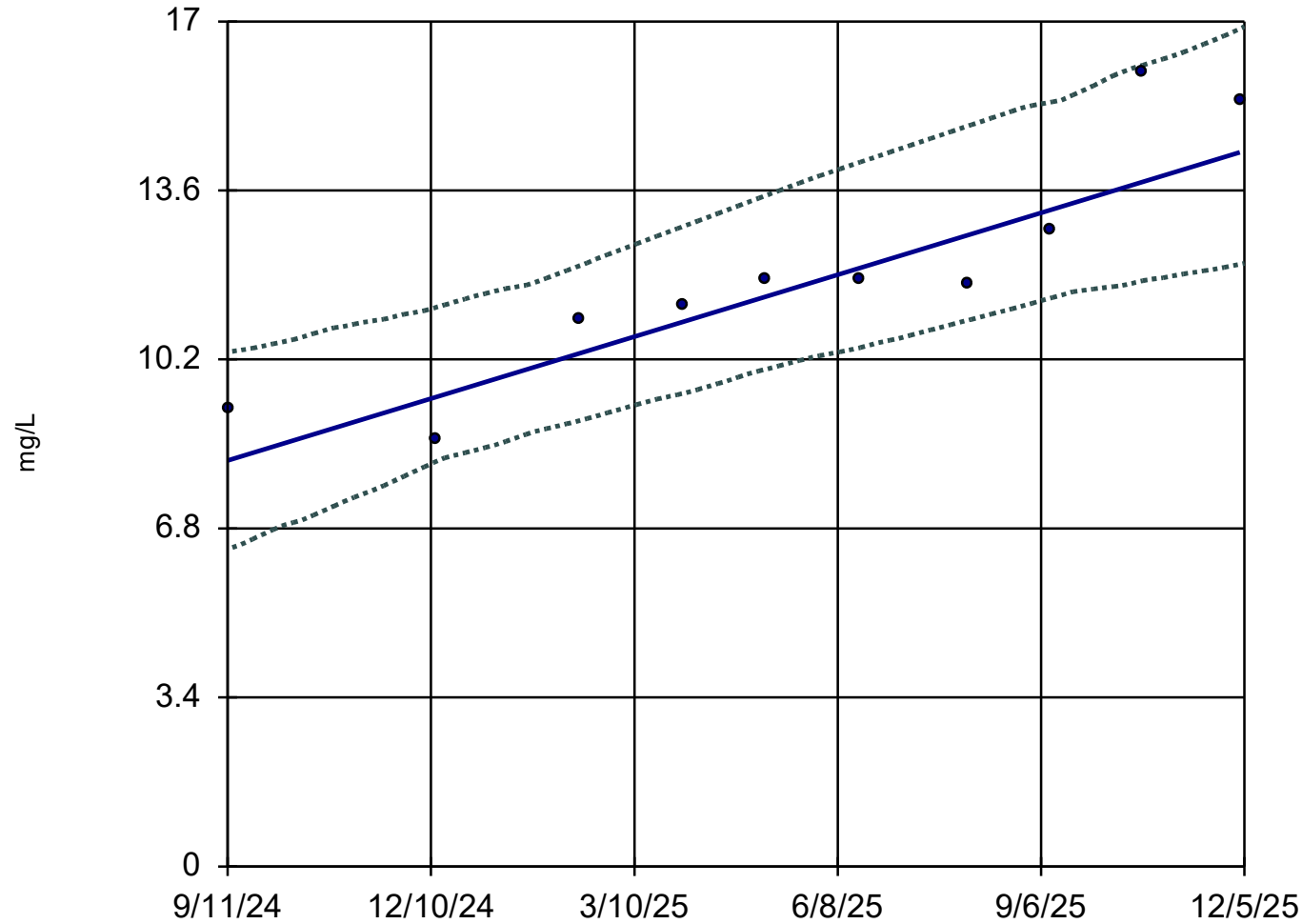
MW-4S



Constituent: Nitrate Analysis Run 3/30/2026 5:42 PM View: 2022-2026 Trends
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

MW-6S



n = 10

Slope = 5.051
units per year.

Mann-Kendall
statistic = 36
critical = 27

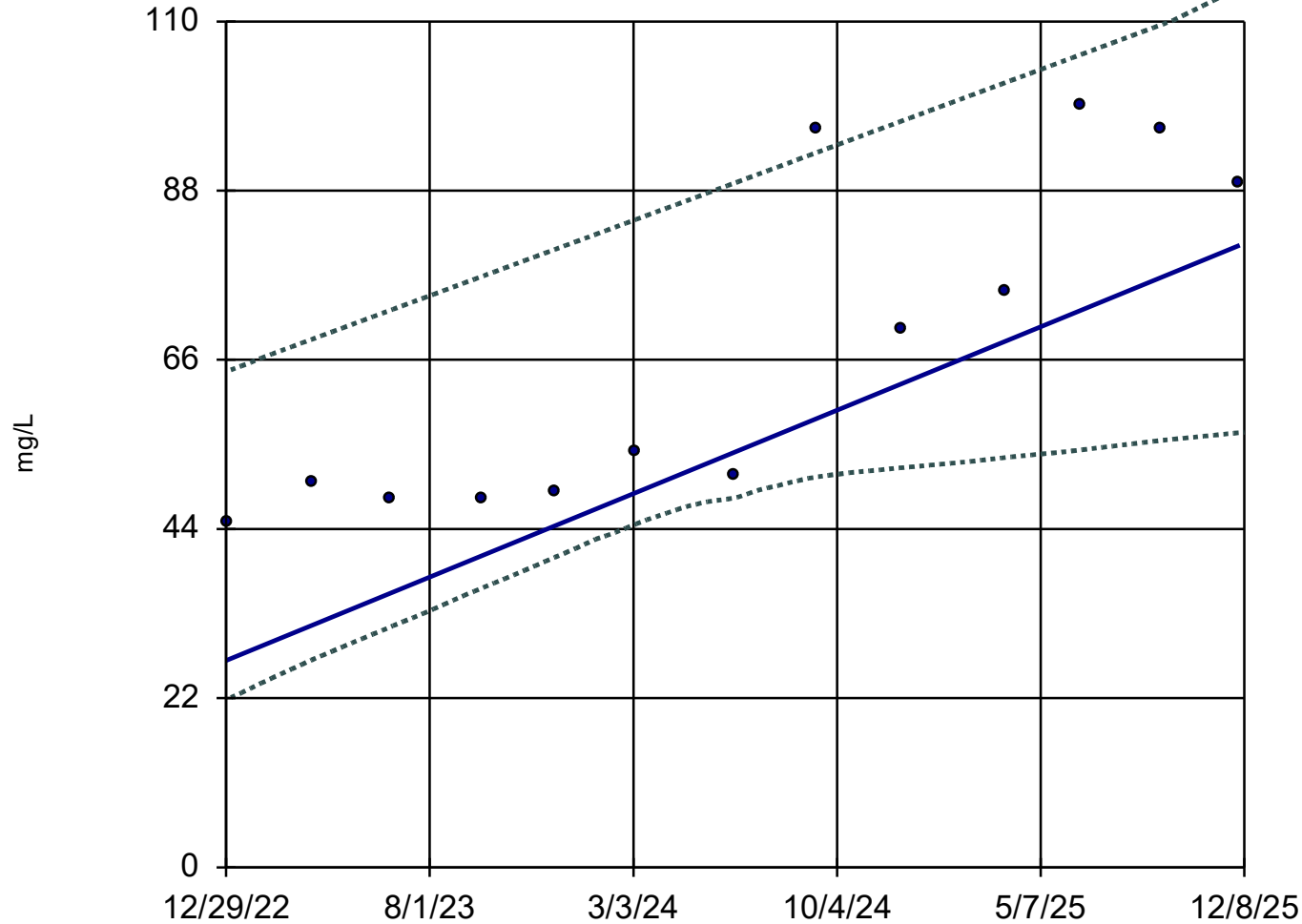
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Nitrate Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends

Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

MW-3S



n = 13

Slope = 18.42
units per year.

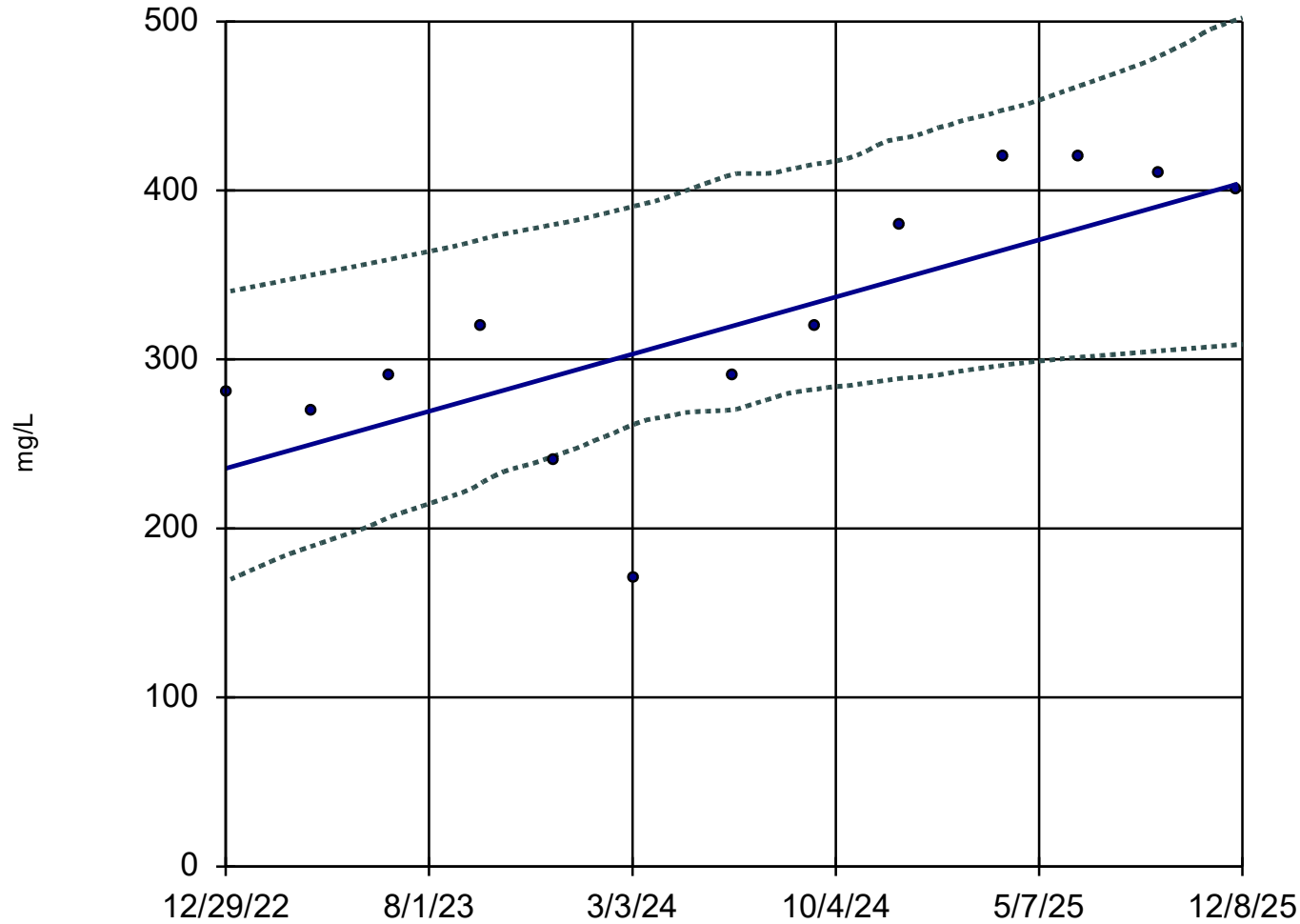
Mann-Kendall
statistic = 56
critical = 39

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Sulfate Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

MW-3S



n = 13

Slope = 57.39
units per year.

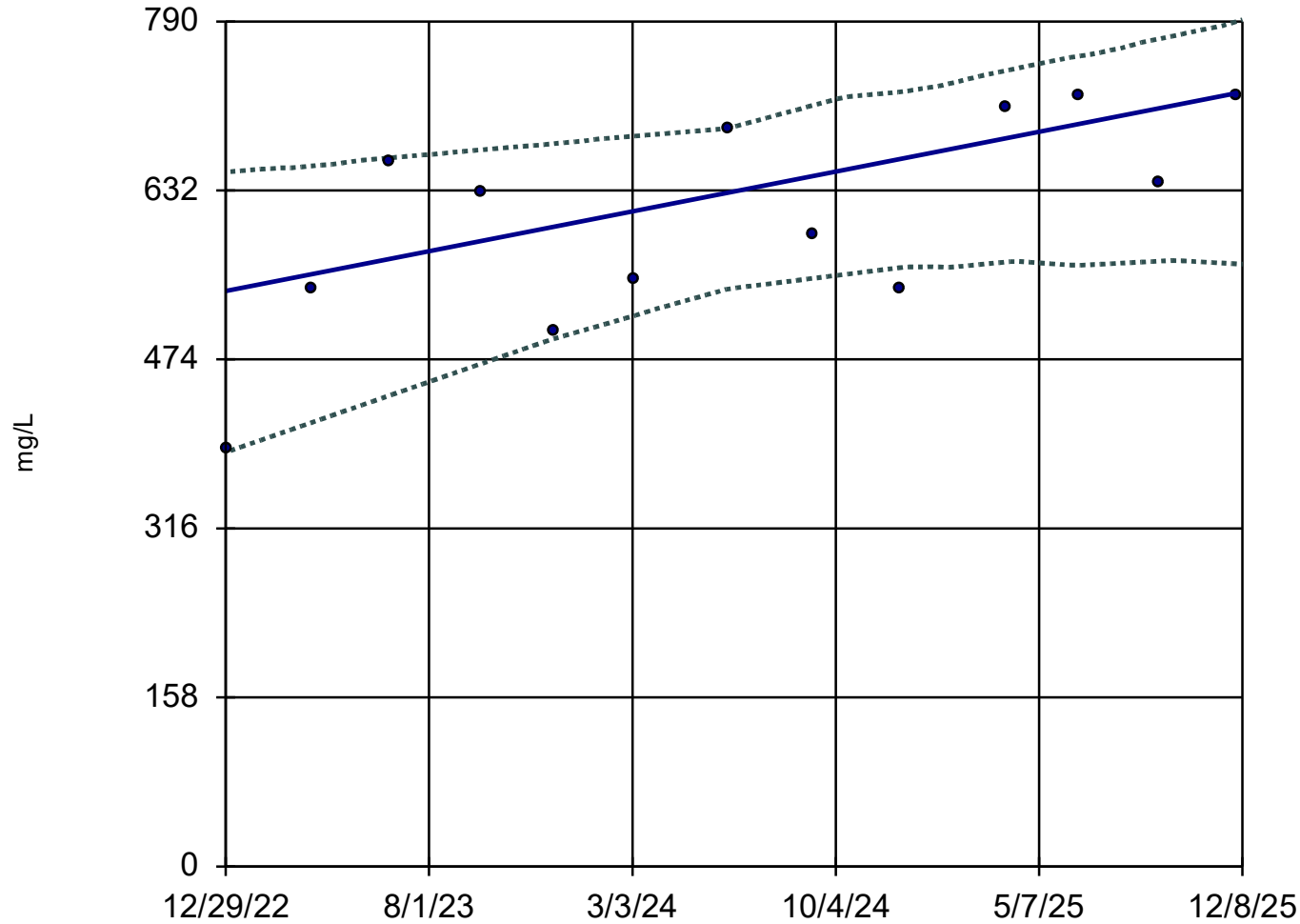
Mann-Kendall
statistic = 43
critical = 39

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: TDS Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats

Sen's Slope and 95% Confidence Band

MW-4S



n = 13

Slope = 63.17
units per year.

Mann-Kendall
statistic = 40
critical = 39

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: TDS Analysis Run 3/30/2026 5:36 PM View: 2022-2026 Trends
Yakima Limited Purpose Landfill Client: DTG Data: DTG Yakima LPL Stats